

Modernage Public School & College, Pakistan Homework for Winter Break Grade VIII, Session 2024-25

Dear Parents and Students,

As we approach the close of another fruitful academic session, it's heartening to reflect on the growth, dedication, and achievements of our students. With each passing term, they have demonstrated resilience and a passion for learning. We are especially excited for our students moving from **Grade VIII to Board** (**Grade IX**) — a significant milestone that marks the beginning of a more focused and structured academic journey. To support this important transition, we have prepared **winter homework assignments** aimed at reinforcing core concepts and giving students an early grasp of the content they will encounter in **Grade IX**. Completing the homework will offer students a head start in key topics, making it easier for them to keep pace with the curriculum.

Highlights of the Winter Homework

Purpose: The homework is designed to strengthen essential skills, provide an introduction to Grade IX content, and develop independent learning and critical thinking abilities.

Advance Learning: For students advancing to Grade IX, the assignments include key concepts from Grade IX, allowing them to familiarize themselves with the new syllabus and reduce learning gaps. Revise and practice the content you studied in Grade VIII for a better understanding.

Balanced Approach: While learning is crucial, so is relaxation. We encourage students to balance study with play, family time, and personal well-being.

N Daily Reading: Students are encouraged to maintain a daily reading habit, as it sharpens their language skills, improves concentration, and fuels creativity.

2 2 Parental Involvement: We encourage parents to support their child's learning journey by guiding them in planning their daily study schedules and motivating them to complete their homework on time.

Winter Vacation Schedule

School will remain closed from Saturday, 21st December 2024, to Sunday, 2nd March 2025. School will reopen on Monday, 3rd March 2025, In Sha Allah.

Homework Submission

All homework assignments must be submitted on Monday, 3rd March 2025.

As we prepare to bid farewell to 2024, we extend our warmest wishes for a **Happy New Year 2025**. For your convenience, details of the winter homework are available on <u>www.maps.edu.pk</u>, the school portal, and the Modernage app. We look forward to an inspiring and successful academic journey ahead.

Warm regards,

Maryam Shah Academic Coordinator

Note: Use loose sheets to complete the homework.

1. ENGLISH

Q.1.a. Choose whether the following nouns are concrete or abstract.

i. hate ______ ii. music ______ iii. peace _____ iv honey _____

v. noise______v. traffic______.

b. Complete the following sentences by using the appropriate collective nouns.

i. My friend bought a _____ of roses for me.

ii. Can you pass the _____ of keys to me.

iii. A pack of _____ howled at night.

iv. The hunter carries a _____ of arrows.

v. Do you know about the _____ of this movie.

c. Underline the noun phrases.

i. All the children went to the park yesterday

ii. Two of the puppies were adopted.

iii. The quick brown fox jumped over the fence.

Q.2.a Use appropriate personal pronouns to fill the blanks.

i. Murat is a good boy. ____always listens to___ teacher.

ii. Amit and Sumit are twin brothers. _____ take the same bag to school.

iii. Milly and I are very good friends. ____ have known each other since childhood.

iv. The mangoes are very sour. Where did you buy ____?

v. I love watching Tom and Jerry. ____ reminds me of my childhood days.

b. Use the correct indefinite pronouns to fill the blanks.

i. There is ______ in the bathroom at the moment.

ii. I am bored, there isn't _____ to do here.

iii. I can't find my keys _____.

iv. _____ at the party had a great time.

v. Are there _____ lemons? No, there are _____.

Q.3 Use the correct article.

i. I want _____ apple from that basket.

ii. _____ church on the corner is progressive.

iii. Miss Lin speaks ____ Chinese.

iv. I borrowed _____ pencil from your pile of pencils and pens.

v. One of the students said, "_____ professor is late today."

Q.4.a Fill in the blanks with correct form of verb.

i. We _____ (are waiting/is waiting) for Rohan.

ii. These books _____ (belong/belongs) to me.

iii. She _____ (want/wants) to go.

iv. We _____ (will like/would like) to visit the museum.

v. He _____ (has finished/have finished) talking.

b. Identify whether the following verbs are regular or irregular. Write your answer next to each verb.

- i. walk _____
- ii.
 become _____

 iii.
 jump _____
- iv. speak _____
- v. flex

c. For each of the following sentences, choose the correct order of adjectives to fill in the blanks.

i. My grandmother lives in the ______ house on the corner. a) little blue, green and white. b) little, blue and green and white c). little, blue, green, and white
ii. The store carries an assortment of ______ objects. a). interesting new, old and antique b). new, old, interesting and antique c). interesting, old and new and antique
iii. We went for a two-week cruise on an ______ ocean liner. a). incredible brand-new, huge Italian b). incredible, huge, brand-new Italian c). Italian incredible, brand-new, huge

d. Underline the adverbs from the sentences given below and also state their type.

i. The boy is too careless.

ii. The winds are very strong.

iii. The baby slept soundly.

iv. The soldiers fought the war valiantly.

v. Joey always tries his best.

vi. Surely you are mistaken.

vii. The movie is to end soon.

viii. Your friend messaged again.

ix. I did my homework already.

x. I was rather busy.

Q.5.a Use the correct prepositions to fill in the blanks.

i. He lives _____ Ahmedabad.

ii. They prefer to stay _____ a farmhouse.

iii. The rat ran _____ the hole.

iv. They go to university _____ walk.

v. It is advisable to stay inside _____ the hurricanes.

vi. The kids fought ______ themselves

vii. Everyone cheered _____ Reema _____ her success.

viii.The instructor insisted ______ completing the drawing before leaving the class.

ix. They are not familiar _____ this subject.

x. He is very angry _____ us.

b. State whether the following sentences are simple, complex or compound.

i. I did not know that this food was meant only for the staff. ______.

ii. She is innocent, so she has appealed to the court.

iii. If you are not ready with the song, it is better to let them know. ______.

____.

iv. She will come home or I will stay back at her place. _____.

v. In the evening, I am going to the park. _____.

vi. The sun looks amazing today. ______.

vii. I remember the day that we met very well. ______.

viii. Nithi is not keeping well, yet she decided to go to work. ______.

ix. After they reach the hotel, they will inform us. ______.x. We are going to the park. ______.

c. State whether the following sentences are declarative, imperative, interrogative or exclamatory.

i. Please shut the windows and doors.

- ii. Do you like chocolate pastries? _____
- iii. My name is Astrid Gracy.
- iv. Where are you going?
- v. Such a beautiful place!
- vi. Go and try this new flavor.
- vii. Today is Monday. _____

Q.6 Develop a story with the help of the given outlines.

..... an old king...... three sons...... worried about their quarrel...... a bundle of sticks......all fail to break......untie the bundle..... break all the sticks. Moral_____

Q.7 Write a letter to your best friend informing him about your winter vacations activities.

Q.8 Write an application to your principal asking him to arrange sports camp in winter vacations.

Q.9 Read the passage carefully and answer the questions.

Yahya was working in a factory as a daily wager. He lived near the factory. His wife was an uneducated rural woman. His eldest son was working in another city and often came to meet his family. The youngest son was reading in a nearby school with his sister. Yahya's wife was well aware about her husband's low income and had a very good control over daily expenses. She tried to keep away her husband from timely glitches at home. They were spending a contented life.

Questions:

- i. Suggest a suitable title to the passage.
- ii. Write the main idea of the passage in your own words.
- iii. How many family members are there in Yahya's family?
- iv. What is meant by the underlined word in the passage?
- v. Give your own opinion about Yahya's wife in one sentence.

Q.10 Read the stanza carefully and answer the questions given at the end.

Continuous as the stars that shine

And twinkle on the Milky Way,

They stretched in never-ending line

Along the margin of a bay:

Ten thousand saw I at a glance,

Tossing their heads in sprightly dance.

Questions:

i. What is the main idea of the stanza?

- ii. Pick out an example of personification from the stanza.
- iii. Write down the contextual meaning of the phrase never-ending line.
- iv. Identify at least two pronouns in the stanza?

2). مضمون: اردو

<u>تحریر کاکام</u> سوال نمبر 1۔ تشبیہ اور استعادہ کی تعریف تکھیں اور اراکین کی وضاحت کریں۔ پانچ پانچ مثالیں تحریر کر کے اراکین کی نشاند ہی کریں۔ سوال نمبر 2۔ جملہ فعلیہ اور جملہ اسمیہ کی تعریف تکھیں اور تین تین مثالیں دیتے ہوئے اجزاء کی وضاحت کریں۔ سوال نمبر 4۔ سبق " تج اکمر کزی ختیال اپنے الفاظ میں تحریر کریں۔ سوال نمبر 4۔ مرکب اضافی اور مرکب عطفی کی تعریف بیان کرتے ہوئے مثالوں کی مد دسے این مرکبات کے اجزاء کی وضاحت کریں۔ سوال نمبر 5۔ "مطالعہ کتب کے زندگی پر اثر ات " کے عنوان پر دودو ستوں کے در میان مکالمہ تحریر کریں۔ سوال نمبر 5۔ "مطالعہ کتب کے زندگی پر اثر ات " کے عنوان پر دودو ستوں کے در میان مکالمہ تحریر کریں۔ سوال نمبر 5۔ "مطالعہ کتب کے زندگی پر اثر ات " کے عنوان پر دودو ستوں کے در میان مکالمہ تحریر کریں۔ سوال نمبر 5۔ "مطالعہ کتب کے زندگی پر اثر ات " کے عنوان پر دودو ستوں کے در میان مکالمہ تحریر کریں۔ سوال نمبر 3۔ این مرب المثل اور روز مرہ کی تعریف ککھیں۔ ہر اک جزئی پانچ پانچ کی پڑی کی کی۔ سوال نمبر 3۔ موال نمبر 3۔ موجہ مرماکی تعطیل ت میں این کر تے ہوئے مثالوں کی مد دیتے این مرکبات کے اجزاء کی وضاحت کریں۔ سوال نمبر 3۔ موجہ مرماکی تعطیل اور جماعت نم ایک کریں۔ پر انچ کی پانچ پانچ کی پڑی کے مثالیں دیتے ہوئی ایک کریں۔ سوال نمبر 3۔ موجہ مرماکی تعطیل اسمیں این روز مرہ مر گر میوں پر تفصیلی مضمون تکھیں۔ سوال نمبر 9۔ نمرہ مراکی تعطیل سر پڑی ہوں ہوں ہر تفصیلی مضمون تکھیں۔ سوال نمبر 9۔ نمرہ مراکی تعطیل ای میں این روز مرہ مر گر میوں پر تفصیلی مطالعہ کر کے ایں پر اینی ذاتی رائے تحریر کریں۔

3. PAKISTAN STUDIES

				سوال نمبر 1 : درست جواب کاانتخاب کریں۔
د)معاشی	ج)معاشرتی	ب)انفرادی	الف)اجتماعي	ا- نظریہ سوچ ہے۔
د)سياست	ج) نظريه	ب) قوميت	الف) ليجہتى	۲۔۔۔۔۔کسی قوم کے افراد کومتحدر کھنے میں اہم کر دار اداکر تاہے۔
5(,	ح)4	ع(ب	الف)2	سو_ نظریہ اقسام کاہو تاہے۔
د)جمهوريت	ج)سیاست	ب)اسلام	الف) ثقافت	ہم۔ جنوبی ایشیاء کے مسلمانوں کی زندگی کا محور ہے۔
1868()	1867(&	ب/1866 ب	الف)1865	۵ میں ہندووں نے ار دوزبان کی مخالفت کی۔
1930()	1929(&	ب)1928	الف)1927	۸- نہر ورپورٹ <u> </u>
د)معاشرت	ج) آمريت	ب)بادشاہت	الف)جمهوريت	۷۔ اسلامی ریاست ۔۔۔۔ کے اصولوں پر قائم ہوتی ہے۔
ن شاہی دربار	ج)مسلم کی د)بلوچستا	ب)كانگرس	الف) د ستور ساز اسمبلی	۸۔ قائد اعظم نے 11 اگست 1947 کو ۔۔۔۔۔ سے خطاب کیا۔
د)لارنس	ج)ماونٹ بیٹن	ب)كرزن	ملا قات کی۔الف)منٹو	۹۔ شملہ وفد کے دوران مسلمان راہنماؤں نے وائسر ئے لارڈ ۔۔۔۔۔ سے
1908()	1907(&	ب)1906 ب	الف)1905	<۱ ـ مسلم لیگ کا قیام میں <i>ہ</i> وا۔
د) حکمرانی	ج)سیاحت	ب)سياست	الف) تحارت	اا۔۔انگریز۔۔۔۔۔ کی غرض سے برصغیر میں داخل ہوئے۔
8(,	ۍ)و	10(ب	نم کی۔الف) 11	۲ا۔1937 کے انتخابات میں کا نگرین نے۔۔۔۔۔ صوبوں میں حکومت قائ
د)كرپس	هىج) چکرورتی	الف) قائد اعظم ب) گاند	ی م یں حل کرناچاہتے تھے۔	ساا ہندووںاور مسلمانوں کے باہمی اختلافات انگریز حکومت کی موجو دگر
5(,	ۍ)4	<u>ع(ب</u>	الف)2	۱۴ سی- آر-فار مولا کے انہم <mark>نکات ت</mark> ھے۔
د)نهرور پورٹ	ج) کر پس مشن	ب)3جون منصوبه	الف)كابينه مشن	۵ا۔ہندومتان۔۔۔۔۔ کے تحت تقسیم ہوا۔
لوى فضل الحق	ج)سرسیداحمدخاند د)مو	ب) قائداعظم	الف)علامه اقبال	۲۱۔ قراردادلاہور۔۔۔۔ نے پیش کی۔
1945()	1920(3	ب1944(ب	الف)1939	ےا_ دوسر می جنگ عظیم کا آغاز ۔۔۔۔۔ میں ہوا۔
)کابینه مشن	ج) کر پس مشن 🔹	ب)شمله کانفرنس	الف)شمله وفد	۱۸۔انتظامی کونسل کی تفکیل۔۔۔۔۔ کامقصد تھا۔
د)مسلمانوں	ج)انگریزوں	ب)مسلم ليگ	الف) کا نگرس	۱۹۔ شملہ کا نفر نس — — کے با ^{ہم} ی اختلافات کی وجہ سے ناکام ہو گی۔
700()	600(Z	ب)500	ت کی۔الف)400	۲۰۔1946 کے منتخب نما ئندوں کے اجلاس میں۔۔۔۔۔ ممبران نے شر ⁷
1946()	1945(&	ب)1944 ب	الف)1943	۲۱_3 وزیروں پر مشتمل مشن میں ہندوستان پہنچا۔
د)ميثاق لکھنو	ج) تقسيم بنگال	ب)اردوہندی تنازعہ	الف) تنسيخ بنگال	۲۲_1867 میں کاواقعہ پیش آیا۔
د)سکھ	ج)ہندو	ب)انگريز	الف)مسلمان	۲۳-س- آر-فار موله رہنمانے پیش کیا۔
1913(,	1912(&	ب/1907	الف)1906	۲۴۷۔ قائد اعظم نے میں مسلم لیگ میں شر کت کی۔
د)اقليتوں	ج)انگریزوں	ب) ہندووں	الف)مسلمانوں	۲۵-۲۵ اگست 1946 کو ـــــــ نے یوم راست اقدام منایا۔
8(,	7(&	6(ب	الف)5	۲۹۔عبوری حکومت میں مسلم لیگ کے نما ئندے شامل تھے۔
مداکرات	مشن د)گاند همی جناح	ېرور پورٹ ج) کر پس	پاکھنو ب)نہ	۲۷۔ قائد اعظم کے 14 نکات ۔۔۔۔۔کارد عمل تھا۔ لف) بیثاذ
^ت کومت	پ ج د)عبوری ^خ	ب)گروپب خ)گرو	الف) گروپ الف	۲۸۔25جون1946 کومسلم لیگ نے ۔۔۔۔ میں شامل ہونے کا فیصلہ کیا۔
د) تقسيم ہند	ج) آزادی	ب)الگ وطن	الف)جداگانها نتخابات	۲۹_میلمانوںنےلارڈ منٹوسےمطالبہ کیا تھا۔
د)لارد کرزن	ج)لاردهاونٹ بیٹن	ب)لارڈو يول	الف)لارڈ ایٹلی	•۳۔۔ہندوستان کے آخریوائسرائے۔۔۔۔۔ تھے۔ ا
78()	72 (Z	ب)68	الف)58	اس سیاچن گلیشیر کی کمبائی۔۔۔۔۔کلو میٹر ہے۔

د) پېاڑى	ج)ساحلی	ب)صحرائی	الف)ميداني	۳۲۔ پاکستان کا ۔۔۔۔۔۔ خطہ ذیادہ گنجان آباد ہے۔
9(,	5)82	ب،7	الف)6،	۳۳۔ آبوہواکے لحاظ سے پاکستان کے <u>مس</u> فطع ہیں۔
د)ساحلی	ج) نیم خشک پہاڑی،	ب)مرطوب پہاڑی،	الف)بلند بہاڑی،	۲۳۴۔ خیبر پختو نخوا آب وہواکے لحاظ سے ۔۔۔۔۔خطے میں شامل ہے۔ا
د) نہیں	ج)معتدل،	ب) ذياده،	الف) كم،	۳۵۔ مرطوب پہاڑی خطوں میں بارشیںہوتی ہیں۔
2900()	ئ)2800،	ب،2700(ب	الف)2600،	۳۹۔ دریائے سندھ کی لمبائی۔۔۔۔۔کلومیٹر ہے۔
نک حبحاڑی دار	ج)لاگئے گئے، د)خط	ب)ساحلی،	لف)بلند پہاڑی،	سے سے میٹر ہوتی ہے۔ سے میٹر ہوتی ہے۔
7.8()	ى5.8،	ب،5.8(ب	الف)4.8،	۸س پاکستان کےفیصد رقبے پر جنگلات ہیں۔
د)صحرائی	ج)ساحلی،	ب)ميداني،	الف) پہاڑی ،	۳۹۔ فخطے میں پاکستان کی اہم بندر گاہیں ہیں۔
7(,	ۍ)6،	ب،5(ب	الف)4،	• ۲۰ پاکتان کو طبعی لحاظ سے ۔۔۔۔ حصوں میں تقسیم کمیا جا سکتا ہے۔
د)وزيرستان	ج)قراقرم،	ب) ہند وکش،	الف) تماليه،	اہم۔ کے -ٹو پہاڑی سلسلے میں موجو دہے۔
د) پنجاب	ج)کے پی کے،	ب)سندھ،	الف) بلوچستان،	۲۴ ۔ حصیل ہامون مشخیل میں واقع ہے۔
1800,	ۍ)1600	ب،1400(ب	الف)1200،	۳۴۳۔ پاکستان کی کل کمبائی۔۔۔۔۔ کلومیٹرہے۔
د)ساحل	ج)ريگتان،	ب)ميدان،	الف) شطح مر تفع،	۴۴۴ علاقے معد نیات کی دولت سے مالامال ہیں۔
د)جنوبي	ج)مشرقی،	ب)مغربي،	الف)شالي،	۴۵ - پاکستان ایشیا می <i>ل موجو دہے</i> ۔
د) کر غستان	ج) قاز قستان،	ب)تر کمانستان،	الف) تاجكستان،	۴۰۹۔واخان کی پٹی پاکستان کو۔۔۔۔۔ سے جدا کرتی ہے۔
د(افغانستان	ج(ایران،	ب(بھارت،	الف (چين،	۲ ⁴ - پاکستان کی سب سے بڑی سر حد2250 کلومیٹر ملک کے ساتھ ہے۔
د)ساحل	ج)صحرا،	ب)ميدان،	الف) پہاڑ،	۸۴۔ پاکتان کے شال میں۔۔۔۔۔واقع ہیں۔
د (بيافو	ج(سياچن،	ب(بالتورو،	الف(باتوره،	۴۹۔ پاکستان کے جس گلیشئر کی کمبائی62 کلو میٹر ہے۔
650()	ۍ)550،	ب450(ب	الف)350،	۵۰۔ پاکستان میں پرندوں کی۔۔۔۔۔ اقسام پائی جاتی ہیں۔
				سوال نمبر2: درن ذیل سوالات کے مختصر جواہات لکھیں۔
				ا۔ جمہوریت سے کیامر اد ہے اور اس کی اہمیت بیان کریں۔
				۲۔ دو قومی نظریہ اور مسلم لیگ کے ارتقاء پر روشنی ڈالیں۔
				سا۔ تقسیم ہندوستان کس منصوبے کے تحت ہوئی؟اصول داضح کریں۔
				^{مہ} ۔ پاکستان کا محل و قوع اور جغر افیائی اہمیت بیان کریں۔
				۵۔ پاکستان سیاحت کے لیے کس طرح اہمیت رکھتا ہے؟

Question No 1: Choose the best answer.

- Ideology is a _____ thinking. A) collective B) individual C) social D) economic.
- 2. _____ plays an important role in the integration of a nation. A) unity B) nationality C) ideology D) politics
- A) unityB) nationalityC) ideologyD) politics3. Ideology has ______ types.A)2B3)C)4
- Ideology has _____ types. A)2 B3) C)4 D)5
 Center of life of Muslims of the subcontinent was _____. A) culture B) Islam C) politics D) Democracy
- 5. Hindus conflicted the Urdu language in _____. A)1865 B)1866 C)1867 D)1868
- 6. Nehru report was presented in _____. A)1927 B)1928 C)1929 D)1930

7. Islamic state is created on principles. A) democratic B) kingship
C) dictatorship D) social
8. Quaid-e-Azam addressed on 11 August 1947. A) constituent assembly
B) congress C) Muslim league D) Baluchistan Shahi Darbar
9. Muslim leaders meet lord during Shimla deputation. A) Minto B) Curzon
C) Mountbatten D) Lawrance
10. Muslim league was created in . A) 1905 B)1906 C)1907 D)1908
11. Britishers entered the subcontinent for purpose. A) trade B) politics
C) tourism D) rule
12. In the elections of 1937, congress established their government in
provinces. A) 11 B)10 C)9 D)8
13. was willing to resolve personal clashes between Hindus and Muslims in the
presence of the British government. A) Quaid-e-Azam B) Gandhi C) Chakarwarti
D) Cripps
14. There were points of C.R Formula. A)2 B)3 C)4 D)5
15. Subcontinent was divided according to . A) cabinet mission
B) 3 rd June plan C) Cripps mission D) Nehru report
16. Lahore resolution was presented by
e-Azam C) Sir Sved Ahmed D) Molvi Fazal-ul-Hag
17. Second world war was started in . A) 1939 B) 1944 C) 1920 D) 1945
18. The creation of an executive council was the objective of . A) Shimla
deputation B) Shimla conference C) Cripps mission D) Cabinet mission
19. Shimla conference failed due to personal clashes of . A) Congress
B) Muslim league C) Britishers D) Muslims
20. members participated in the 1946 session of elected representatives. A)400
B) 500 C) 600 D) 700
21. Mission including 3 ministers reached subcontinent inA) 1943 B) 1944
C) 1945 D) 1946
22. In 1867 incident occurred. A) cancelation of the division of Bengal B) Urdu
Hindi conflict C) division of Bengal D) Lakhnow pact
23. C.R Formula was presented by leader. A) Muslim B) British C) Hindu
D) Sikh
24. Quaid-e-Azam joined Muslim League in A) 1906 B) 1907 C) 1912
D) 1913
25. On 16 August 1946, celebrated as "Direct Action Day" A) Muslims
B) Hindus C) Britishers D) Minorities
26 members of the Muslim League were part of the interim government. A) 5 B) 6
C) 7 D) 8
27. Quaid-e-Azam presented his 14 points in the reaction of
A) Lucknow pact B) Nehru report C) Cripps mission D) Gandhi Jinnah
talks
28. On 25 June 1946, the Muslim league decided to join A) Group A B) Group B
C) Group C D) Interim government
29. Muslim League demanded from Lord Minto. A) separate electorate
B) separate homeland C) independence D) division of India
30 was the last viceroy of India. A) Lord Italy B) Lord Wavell
C) Lord Mountbatten D) Lord Curzon
31. Length of Siachen Glacier is km. A) 58 B) 68 C) 72 D) 78

- 32. _____ area of Pakistan is densely populated. A) Plain B) Desert C) Coastal D) Mountainous
- 33. According to Climate Pakistan has _____ regions. A) 6, B) 7, C) 8, D) 9
- 34. According to climate, KPK is located in ______ region. A) high mountains, B) humid mountains, C) semi-dry mountains, D) coastal
- 35. There are ______ rains in humid mountainous regions.A) less, B) heavy, C) moderate, D) no
- 36. The total length of river Indus is _____ km. A) 2600, B) 2700, C) 2800, D) 2900
- 37. Trees of ______ forests have lengths of 3 to 6 meters. A) high mountains, B) coastal, C) dry shrubs
- 38. _____percent land of Pakistan is covered with forests. A) 4.8, B) 5.8, C) 6.8, D) 7.8
- 39. Important ports of Pakistan are located in _____ region. A) mountainous, B) plain, C) coastal, D) desert
- 40. Pakistan is physically divided into _____ parts. A) 4, B) 5, C) 6, D) 7
- 41. K-2 is located in _____ mountainous range. A) Himalaya, B) Hindukush,C) Karakorum, D) Waziristan
- 42. Lake Hamoon Mashkhail is located in _____. A) Baluchistan, B) Sindh, C) KPK, D) Punjab
- 43. Total length of Pakistan is _____ kilometer. A) 1200, B) 1400, C) 1600, D) 1800
- 44. _____ areas are rich in minerals. A) plateaus, B) plains, C) deserts, D) coastal
- 45. Pakistan is located in _____ Asia. A) north, B) west, C) east, D) south
- 46. Wakhan separates Pakistan from _____. A) Tajikistan, B) Turkmenistan, C) Kazakhstan, D) Kirghizstan
- 47. Pakistan shares 2250 km largest border with _____ state. A) China, B) India, C) Iran, D) Afghanistan
- 48. _____ is situated in the north of Pakistan. A) mountains, B) plains, C) deserts, D) coastal
- 49. The glacier of Pakistan which is 62 km long is _____. A) Batoora, B) Baltoro, C) Siachen, D) Biafo

50. _____ types of birds are found in Pakistan. A) 350, B) 450, C) 550, D) 650 **OUESTIONS:**

- 1. What is meant by democracy? Explain its importance.
- 2. Explain the evolution of two nation theory and the creation of Muslim League.
- 3. According to which plan subcontinent was divided? Explain principles.
- 4. Explain the location and geographical importance of Pakistan.
- 5. Explain how Pakistan is important for tourism.

4. ISLAMIYAT & MUTALA)E-QURAN HAKEEM

سوال نمبر 1۔ کتاب اسلامیات لازمی سے حدیث نمبر 6،7،8 کاتر جمہ اور تشر ^س لکھیں۔ سوال نمبر 2۔ موضوعاتی مطالعہ سے سبق طہارت وصفائی کے مشقی سوالات کے جوابات تحریر کریں۔ سوال نمبر 3۔ سورۃ الانفال آیات 49 تا58 پڑھیں اور مشقی سوالات کے جوابات تحریر کریں۔ سوال نمبر 4۔ سورۃ الانفال آیات 45 تا48 کاتر جمہ پڑھیں اور مشقی سوالات کے جوابات تحریر کریں۔ سوال نمبر 5۔ سورۃ الانفال آیات 59 تا48 کاتر جمہ پڑھیں اور مشقی سوالات کے جوابات تحریر کریں۔ سوال نمبر 4۔ سورۃ الانفال آیات 59 تا48 کاتر جمہ پڑھیں اور مشقی سوالات کے جوابات تحریر کریں۔ سوال نمبر 7۔ سورۃ النحل پڑھیں اور پانچویں رکوع میں اللہ تعالیٰ کی جن صفات کاذکر ہے ان میں سے دس تحریر کریں۔ سوال نمبر 8۔ قصہ حضرت سلیمان علیہ السلام کو مختصر تحریر کریں۔ سوال نمبر 9۔۔ سورۃ العنکبوت آیات 40 تا50 کاتر جمہ اور تشریح لکھیں۔ سوال نمبر 10۔ سورۃ القمان پڑھیں اور حضرت لقمان نے اپنے بیٹے کوجو وصیتیں کیں ان میں سے دس تحریر کریں۔

5. BIOLOGY

Choose one of the following:

1. The quantitative study of the energy relationships and energy conversion in biological systems is known as

a) energetics	b) bioenergetics	c) respiration	d) metabolism		
2. The main source of energy for the whole universe is					
a) sunlight	b) artificial light	c) moon light	d) none of these		
3. When chemical box	nds are broken energy i	S			
a) released	b) stored	c) nor gain nor loss	d) remain unchanged		
4. Plants capture sunl	ight and convert into st	ored	energy.		
a) physical	b) chemical	c) heat	d) light		
5. Oxidation is define	d as				
a) Loss of electrons	b) loss of hydrogen	c) gain of electron	d) gain of hydrogen		
6. Gain of hydrogen of	or electron is called				
a) oxidation	b) reduction	c) bioenergetics	d) oxidation-reduction		
7. The process of brea	akdown of food is know	vn as			
a) photosynthesis	b) respiration	c) oxidation	d) breathing		
8. Capacity to do wor	k is called				
a) power	b) force	c) work	d) energy		
9. The energy currence	y for cell is known as _				
a) ATP	b) NAD ⁺	c) AMP	d) ADP		
10. ATP means					
a) adenine triphospha	te b) adenine monopho	sphate c) adenosine	e triphosphate d) adenosine		
a) adenine triphospha triplophosphate	te b) adenine monopho	sphate c) adenosine	e triphosphate d) adenosine		
a) adenine triphosphate 11. Hydrolysis of one	te b) adenine monopho	sphate c) adenosine	e triphosphate d) adenosine		
a) adenine triphospha triplophosphate 11. Hydrolysis of one a) 7.3	te b) adenine monopho ATP produces b) 8	sphate c) adenosine Kcal. c) 4.2	e triphosphate d) adenosine d) 17		
 a) adenine triphospha triplophosphate Hydrolysis of one a) 7.3 Adenine is a 	te b) adenine monopho ATP produces b) 8	sphate c) adenosine Kcal. c) 4.2	d) 17		
 a) adenine triphosphate a) adenine triphosphate a) Hydrolysis of one a) 7.3 a) Adenine is a a) nitrogenous base 	te b) adenine monopho ATP produces b) 8 b) sugar	<pre>sphate c) adenosine Kcal. c) 4.2 c) fatty acid</pre>	e triphosphate d) adenosine d) 17 d) vitamin		
 a) adenine triphospha a) adenine triphosphate 11. Hydrolysis of one a) 7.3 12. Adenine is a a) nitrogenous base 13. Adenine is bonded 	te b) adenine monopho ATP produces b) 8 b) sugar d to 5-carbon sugar by	sphate c) adenosine Kcal. c) 4.2 c) fatty acid means of	 d) 17 d) vitamin bond. 		
 a) adenine triphospha a) adenine triphosphate 11. Hydrolysis of one a) 7.3 12. Adenine is a a) nitrogenous base 13. Adenine is bonded a) ionic 	te b) adenine monopho ATP produces b) 8 b) sugar d to 5-carbon sugar by b) covalent	<pre>sphate c) adenosine Kcal. c) 4.2 c) fatty acid means of c) hydrogen</pre>	 d) 17 d) vitaminbond. d) polar covalent 		
 a) adenine triphospha a) adenine triphosphate a) Hydrolysis of one a) 7.3 b) Adenine is a c) Adenine is bonded c) Adenine is bonded c) Adenine combine 	 te b) adenine monopho ATP produces b) 8 b) sugar d to 5-carbon sugar by b) covalent s with sugar to form 	sphate c) adenosine Kcal. c) 4.2 c) fatty acid means of c) hydrogen	e triphosphate d) adenosine d) 17 d) vitamin bond. d) polar covalent		
 a) adenine triphosphat a) adenine triphosphate a) Hydrolysis of one a) 7.3 b) Adenine is a c) Adenine is bonded a) ionic c) Adenine combine a) adenosine 	te b) adenine monopho ATP produces b) 8 b) sugar d to 5-carbon sugar by b) covalent s with sugar to form b) adicose	sphate c) adenosine Kcal. c) 4.2 c) fatty acid means of c) hydrogen c) adipose	 d) 17 d) vitamin bond. d) polar covalent d) adenocine 		
 a) adenine triphospha a) adenine triphosphate 11. Hydrolysis of one a) 7.3 12. Adenine is a a) nitrogenous base 13. Adenine is bonded a) ionic 14. Adenine combine a) adenosine 15. Bonding of one p 	 te b) adenine monopho ATP produces b) 8 b) sugar d to 5-carbon sugar by b) covalent s with sugar to form b) adicose bhosphate with adenosing 	sphate c) adenosine Kcal. c) 4.2 c) fatty acid means of c) hydrogen c) adipose me gives	 triphosphate d) adenosine d) 17 d) vitamin bond. d) polar covalent d) adenocine 		
 a) adenine triphosphate a) adenine triphosphate a) Hydrolysis of one a) 7.3 a) Adenine is a a) nitrogenous base bonded a) ionic Adenine combine a) adenosine Bonding of one p a) adenosine monophe 	 te b) adenine monopho ATP produces b) 8 b) sugar d to 5-carbon sugar by b) covalent s with sugar to form b) adicose bhosphate with adenosino osphate b) adenosine osphate 	sphate c) adenosine Kcal. c) 4.2 c) fatty acid means of c) hydrogen c) adipose ne gives diphosphate c) ader	 d) 17 d) vitamin bond. d) polar covalent d) adenocine 		
 a) adenine triphosphat a) adenine triphosphate a) Hydrolysis of one a) 7.3 b) Adenine is a a) nitrogenous base c) Adenine is bonded a) ionic c) Adenine combine a) adenosine c) Bonding of one p a) adenosine monophe 	te b) adenine monopho ATP produces b) 8 b) sugar d to 5-carbon sugar by b) covalent s with sugar to form b) adicose bhosphate with adenosine of	sphate c) adenosine Kcal. c) 4.2 c) fatty acid means of c) hydrogen c) adipose ne gives diphosphate c) ader	 d) 17 d) vitamin bond. d) polar covalent d) adenocine 		
 a) adenine triphosphat a) adenine triphosphate 11. Hydrolysis of one a) 7.3 12. Adenine is a a) nitrogenous base 13. Adenine is bonded a) ionic 14. Adenine combine a) adenosine 15. Bonding of one p a) adenosine monophe phosphate 16. Photosynthesis is 	 te b) adenine monopho ATP produces b) 8 b) sugar d to 5-carbon sugar by b) covalent s with sugar to form b) adicose bhosphate with adenosino of the substantion of the substantian of the	sphate c) adenosine Kcal. c) 4.2 c) fatty acid means of c) hydrogen c) adipose ne gives diphosphate c) ader words.	 d) 17 d) vitamin bond. d) polar covalent d) adenocine 		
 a) adenine triphosphate a) adenine triphosphate a) Hydrolysis of one a) 7.3 a) Adenine is a a) nitrogenous base a) Adenine is bonded a) ionic Adenine combine a) adenosine Bonding of one p a) adenosine monophe phosphate Photosynthesis is a) Greek 	te b) adenine monopho ATP produces b) 8 b) sugar d to 5-carbon sugar by b) covalent s with sugar to form b) adicose bhosphate with adenosin osphate b) adenosine of derived from two b) Latin	sphate c) adenosine Kcal. c) 4.2 c) fatty acid means of c) hydrogen c) adipose ne gives diphosphate c) ader words. c) Spanish	 d) 17 d) vitamin bond. d) polar covalent d) adenocine d) adenocine d) German 		
 a) adenine triphosphat a) adenine triphosphate 11. Hydrolysis of one a) 7.3 12. Adenine is a a) nitrogenous base 13. Adenine is bonded a) ionic 14. Adenine combine a) adenosine 15. Bonding of one p a) adenosine monophe phosphate 16. Photosynthesis is a) Greek 17. Process by which 	te b) adenine monopho ATP produces b) 8 b) sugar d to 5-carbon sugar by b) covalent s with sugar to form b) adicose bhosphate with adenosin osphate b) adenosine of derived from two b) Latin plant use CO ₂ , in the p	sphate c) adenosine Kcal. c) 4.2 c) fatty acid means of c) hydrogen c) adipose ne gives diphosphate c) ader words. c) Spanish resence of sunlight and	 d) 17 d) vitaminbond. d) polar covalent d) adenocineosine triphosphate d) adenine d) German d chlorophyll is known as 		

18. Chlorophyll is a complex _____ compound. b) organic a) inorganic c) bioelement d) both b & c 19. Chlorophyll absorb blue and _____ portion of sun light. b) yellow c) red d) indigo a) green 20. Plants look green because they reflect _____ portion of sun light. b) yellow c) red d) indigo a) green 21. Chlorophyll is present in _____ plastids of plants. a) chromoplast b) chloroplast c) leucoplast 22. Chloroplast is a _____ membrane organelle. d) none of these b) triple a) single c) double d) none of these 23. A granum consists of many flattened fluid filled membranous sacs called b) lamella c) intergrana d) thylakoid a) stroma 24. Thylakoid membranes are the sites of ______ reaction of photosynthesis. b) dark c) black d) hydrolysis. a) light 25. Light reaction occur in the _____ of chloroplast. c) thylakoid b) stroma a) grana d) matrix 26. _____ reaction occurs in the stroma of chloroplast. a) dark b) light c) oxidation d) reduction 27. Chlorophyll is attached to the _____. a) granum b) thylakoid membrane c) intergrana d) stroma 28. Photosynthetic prokaryotes lack a) mitochondria b) golgi bodies c) chloroplasts d) vacuole 29. Chlorophyll _____ is the most abundant and most important photosynthetic pigment. a) b b) c c) d d) a 30. Chlorophyll _____ is found in green algae. b) c a) b c) a d) d 31. Bacteria contain ______ chlorophyll. b) bacterio a) algal c) geen d) none of these 32. Light is a form of . a) particles b) energy c) power d) both b & c 33. Light consist of beam of particles of different frequencies called _____ a) particles b) photons d) Both a & b c) energy 34. Frequencies of visible light ranges from a) 390-430 b) 550-670 c) 400-750 d) 400-650 35. Photosynthetic pigments are of _____ types. a) three b) four c) two d) five 36. ______ are known as accessory phosynthetic pigments. a) chlorophyll b) carotenoids c) cytochrome d) chloroplast 37. Carotenoids absorb light in the visible spectrum ranges from _____ c) 400-750 a) 390-430 b) 500-600 d) 400-650 38. Ganum consists of _____ type of photo systems. b) five a) four c) two d) three 39. Oxygen, ATP and ______ are the products of light reaction of photosynthesis. b) NADP⁺ a) NAD⁺ c) FAD⁺ d) NADPH 40. Dark or light independent reaction does not require _____ c) ATP b) CO_2 a) light d) NADPH 41. Dark reaction occurs in _____ form. b) straight reaction c) cyclic d) both a & c a) chain

42. Dark reaction is also known as cycle. c) Henry's a) Kreb's b) Calvin d) Fisher's 43. _____ are small openings in the lower epidermis of leaf. b) guard cells c) intercellular spaces d) both a & b a) stoma 44. Each stomata is guarded by two kidney shape guard cells called _____ c) intercellular spaces d) both a & b b) guard cells a) stoma 45. Which one of the following is not required for photosynthesis? b) carbon-dioxide c) sunlight d) oxygen a) water 46. The concept of limiting factor was derived by _____ law of limiting factor. c) Aristotle b) Darwin's a) Lebig's d) Linnaeus 47. According to law of limiting factor when a chemical reaction is controlled by one or more than one factor, then the rate of chemical reaction will be limited by the factor which is in amount. a) maximum b) minimum c) optimum d) both a & b 48. Amount of carbon-dioxide in atmosphere is b) 0.03% a) 0.04% c) 0.003% d) 0.05% 49. closing of stomata occur due to the decreased level of ______ in the mesophyll tissue. b) CO a) H_2O c) CO_2 d) H_2O_2 50. The optimum condition for photosynthesis is . b) 25°C c) 35°C a) 20°C d) 45°C 51. Oxidation reduction process during which organic food is broken down and energy is released is known as a) photosynthesis b) respiration c) bioenergetics d) reduction 52. Type of respiration which occurs in the presence of oxygen is known as b) anaerobic c) fermentation a) aerobic d) both b & c 53. Anaerobic respiration occurs in the absence of _____. a) water b) CO_2 c) Nitrogen d) oxygen 54. Fermentation of glucose to lactic acid produce_____ ATP's. c) 2 b) 8 a) 36 d) 38 55. In the first step of fermentation glucose is broken down into _____ d) lactic acid a) pyruvic acid b) acetaldehyde c) alchol 56. The chemical formula of pyruvic acid is a) $C_2 H_4 O_6$ b) $C_3 H_4 N_4$ c) C₃ H₄ O₃ d) $C_6 H_8 O_6$ 57. Alcholic fermentation is done by yeast and some kinds of _____ b) fungi c) bacteria d) viruses a) animals 58. Production of yogurt is an example of ______ fermentation. a) lactic acid b) alcholic c) bacterial d) none of these 59. Aerobic respiration completes in ______ steps. b) two c) three a) one d) four 60. Glycolysis occurs in ____ b) cytoplasm a) mitochondria c) mitochondrial matrix d) cytosol 61. Kreb's cycle and electron transport chain occur in the b) cytoplasm c) cytosol a) mitochondria d) mitochondrial 62. Glycolysis means break down of glucose into_____ c) carbon-dioxide a) pyruvic acid b) alchol d) sugar 63. Glucose is a _____ carbon compound and pyruvic acid is _____ carbon compound. b) 5 & 3 c) 7 & 5 d) 3 & 6 a) 6 & 3 64. Pyruvic acid breaks down completly into carbon dioxide and water in _____ b) kreb's cycle c) electron transport chain d) photosynthesis a) glycolysis

65. Total amount of energy	produced during aerob	ic respiration is				
a) 38 ATP b) 35	5 ATP c) 32	ATP	d)36 ATP			
66. Photosynthesis takes pl	ace					
a) in all cells of plant body b) in green cells of the plant body c) only in leaf cells						
d) in root cells						
67. Which one of the follow	ving is true for photosy	nthesis?				
a) occur during day time	b) occurs day and nig	ght c) occurs in ro	oot cells d) catabolic			
process						
68. Which one of the follow	ving is not required for	respiration?				
a) oxygen b) food mole	ecule c) enz	zymes	d) CO_2			
69. ATP is a		,				
a) nucleotide b) ni	trogenous base	c) an enzyme	d) carbohydrate			
70. A living cell respire	• \	、 .	•\ •			
a) for exchange of gases	b) to store energy	c) to increase in size	d) to release energy			
71. A car engine uses fuel f	or work to do. To carry	out functions, a living	cell uses			
a) electric power b) ge	enerator	c) ATP	d) heat energy			
71 conta	ins the most amount of	essential nutrients.	1)			
a) water	b) air	c) soll	d) temperature			
72. Metabolic activities of j	plants are linked with th	e availability of	·			
a) chemicals	b) nutrients	c) food	d) both a& c			
73. Which one of the follow	ving is not the compone	ent of organic compoun	ds?			
a) carbon	b) hydrogen	c) oxygen	d) cobalt			
/4. Which element act as a	coractor and neips in ce	II permeability ?	1)			
a) calcium 75 Which of the fellowing	b) nydrogen	c) phosphorus	d) magnesium			
/5. Which of the following	g is a part of chlorophyl	I molecule and coenzy	me a?			
a) support $\mathcal{T}(\mathbf{W})$	b) calcium	c) magnesium	d) carbon			
/6. which one of the folio	wing is not a micronutr	ient?	d) none of these			
	b) sourum	c) potassium	u) none of these			
17 IS	h) cobalt		d) nitrogan			
78 Which of the following	U) COUAIL a element plays the role	of nitrogen fixation?	u) muogen			
a) carbon	b) molybdenum	c) iron	d) boron			
79 There are	major amino acids pres	c) non sent in living bodies	u) 001011			
a) 10	h) 20	c) 30	d) 40			
80 Plants lacking	appear chlorotic	vellowing between vei	ns of older leaves?			
a) ca^{2+}	$\frac{1}{2} m g^{2+}$	c) k^+	d) na ⁺			
81 is	a condition in which le	aves produce insufficie	nt chlorophyll?			
a) tracking	b) chlorosis	c) both a& b	d) none of these			
82. Fertilizers are of how t	nany types?		a) none of these			
a) two	b) three	c) four d) five	2			
83. Which one of the follo	wing is not an organic	compound?				
a) ammonium nitrate	b) manure	c) seaweed	d) sewage			
84. a	re the major source of e	nergy.	.)			
a) proteins	b) fats c) car	bohydrates d) vit	amins			
85. In all carbohydrates th	e ratio of hydrogen ato	ms to oxygen atoms is?)			
a) 1:1	b) 1:2	c) 2:1	d) 2:2			
86. If a gram of carbohvdr	ate is fully oxidized it r	broduce about kil	ojoules of energy.			
a) 15	b) 16	c) 17	d) 18			

	e information abou	it the formation of proteins	\$?
a) heart	b) dna	c) amino acid d) e	endoplasmic reticulum
88. Fats belong to group	called		
a) lipids	b) proteins	c) carbohydrates	d) vitamins
89 play	an important role i	in controlling inflammation	n, blood clotting, and
brain development.			
a) fats	b)carbohydrate	es c) proteins	d) vitamins
90. Vitamins are of	type	s.	
a) two	b) three	c) four	d) five
91. Which of the following	ng is not a fat solu	ble vitamin?	
a) a	b) k	c) d	d) b
92. Vitamin is know	vn as retinol.		
a) d	b) a	c) c	d) k
93. Deficiency of vitami	n affects the h	health of skin, hair, eyes an	d immune system.
a) a	b) d	c) k	d) b
94. Vitamin is es	sential for healing	wounds, and for repairing	and maintaining bones
and teeth?			
a) a	b) c	c) k	d) b
95	_ is a mineral that I	helps maintain good teeth	and bones.
a) phosphorus	b) calcium	c) carbon	d) sodium
96. About	% of the body'	s calcium is stored in bone	tissue.
a) 66	b) 77	c) 88	d) 99
97. Low iron levels can c	ause		
a) anemia b) o	osteoporosis	c) osteomalacia d) :	scurvy
98. Human body is about	% wate	r.	
a) 60	b) 70	c) 80	d) 90
99. Human body has	% protein.		
a) 15	b) 25	c) 35	d) 45
100. Digestive tract uti	lizes lit	ers of water per day.	
a) 10	b) 20	c) 30	d) 40
101. What is the percen	tage of protein in p	beas?	
a) 5.1%	b) 5.2%	c) 6.1%	d) 6.2%
102. What is the percen	tage of carbohydra	ite in bread?	
a) 32%	b) 42%	c) 52%	
		0) 5270	d) 62%
103. What is the percen	tage of fat in banar	na?	d) 62%
103. What is the percentation a) 0.5%	tage of fat in banar b) 1.5%	c) 2.5%	d) 62% d) 3.5%
103. What is the percenta) 0.5%104. What is the percent	tage of fat in banar b) 1.5% tage of carbohydra	c) 2.5% te in fish?	d) 62% d) 3.5%
 103. What is the percent a) 0.5% 104. What is the percent a) 0% 	tage of fat in banar b) 1.5% tage of carbohydra b) 10%	c) 32/8 c) 2.5% te in fish? c) 20	 d) 62% d) 3.5% d) 30 c) is a last of the second se
 103. What is the percent a) 0.5% 104. What is the percent a) 0% 105	tage of fat in banar b) 1.5% tage of carbohydra b) 10% is an asymptomati	c) 32/8 c) 2.5% te in fish? c) 20 ic condition in which the lo	d) 62% d) 3.5% d) 30 pss of minerals can cause
 103. What is the percent a) 0.5% 104. What is the percent a) 0% 105	tage of fat in banar b) 1.5% tage of carbohydra b) 10% is an asymptomati ecome porous and	c) 2.5% c) 2.5% te in fish? c) 20 ic condition in which the lo fragile.	d) 62% d) 3.5% d) 30 oss of minerals can cause
 103. What is the percent a) 0.5% 104. What is the percent a) 0% 105	tage of fat in banar b) 1.5% tage of carbohydra b) 10% is an asymptomati ecome porous and b) anemia	c) 32/8 na? c) 2.5% tte in fish? c) 20 ic condition in which the lo fragile. c) osteoporosis	d) 62% d) 3.5% d) 30 oss of minerals can cause d) goiter
 103. What is the percent a) 0.5% 104. What is the percent a) 0% 105	tage of fat in banar b) 1.5% tage of carbohydra b) 10% is an asymptomati ecome porous and b) anemia which is caused by	c) 32/8 na? c) 2.5% ite in fish? c) 20 ic condition in which the lo fragile. c) osteoporosis y the deficiencies of	d) 62% d) 3.5% d) 30 oss of minerals can cause d) goiter
 103. What is the percent a) 0.5% 104. What is the percent a) 0% 105	tage of fat in banar b) 1.5% tage of carbohydra b) 10% is an asymptomati ecome porous and b) anemia which is caused by b) iodine	c) 32/8 na? c) 2.5% ite in fish? c) 20 ic condition in which the lo fragile. c) osteoporosis y the deficiencies of c) carbon	d) 62% d) 3.5% d) 30 oss of minerals can cause d) goiter <u>d</u>) sodium
 103. What is the percent a) 0.5% 104. What is the percent a) 0% 105	tage of fat in banar b) 1.5% tage of carbohydra b) 10% is an asymptomati ecome porous and b) anemia which is caused by b) iodine ed as a major sourc	c) 32/8 ha? c) 2.5% te in fish? c) 20 ic condition in which the lo fragile. c) osteoporosis y the deficiencies of c) carbon e of in man	d) 62% d) 3.5% d) 30 oss of minerals can cause d) goiter d) sodium y different forms.
 103. What is the percental of t	tage of fat in banar b) 1.5% tage of carbohydra b) 10% is an asymptomati ecome porous and b) anemia which is caused by b) iodine ed as a major sourc b) protein	c) 32/8 na? c) 2.5% te in fish? c) 20 ic condition in which the lo fragile. c) osteoporosis y the deficiencies of c) carbon e of in man c) lipids	d) 62% d) 3.5% d) 30 oss of minerals can cause d) goiter d) sodium y different forms. d) vitamins
 103. What is the percental of the second s	tage of fat in banar b) 1.5% tage of carbohydra b) 10% is an asymptomati ecome porous and b) anemia which is caused by b) iodine ed as a major sourc b) protein diet contains ca	c) 32/8 ha? c) 2.5% ite in fish? c) 20 ic condition in which the lo fragile. c) osteoporosis y the deficiencies of c) carbon e of in man c) lipids rbohydrate, protein, fat, vi	d) 62% d) 3.5% d) 30 oss of minerals can cause d) goiter d) sodium y different forms. d) vitamins tamins, mineral salts and
 103. What is the percental of t	tage of fat in banar b) 1.5% tage of carbohydra b) 10% is an asymptomatic ecome porous and b) anemia which is caused by b) iodine ed as a major sourc b) protein diet contains cartions.	c) 32/8 ha? c) 2.5% ite in fish? c) 20 ic condition in which the lo fragile. c) osteoporosis y the deficiencies of c) carbon e of in man c) lipids rbohydrate, protein, fat, vi	d) 62% d) 3.5% d) 30 oss of minerals can cause d) goiter d) sodium y different forms. d) vitamins tamins, mineral salts and

109.	The conversion of la	rge, complex, non diffu	sible and insoluble for	od into small, simple,
	Inusible and soluble f	orm by the action of en	zyme is called as	
a)	The unterlaged a shall be	b) circulation	c) digestion	a) none of these
110.	The uptake of solub		tom digestive tract mit	
	transportation	 b) absormation	a) accimilation	d) agastion
a) 111	The process in which	b) absorption	c) assimilation	a) egestion or solid substance of
111. +h	he process in which	i cens absorb and conv		or some substance of
u a)	e body is called	h) direction	a) abcomption	d) transportation
a)	assimilation	b) digestion	c) absorption	d) transportation
112.	digastion	h) agastion	a) transpiration	d) accimilation
112	is the	b) egestion first part of body which	c) transpiration	u) assimilation
113.	IS uic	h) aconhague	a) phoryny	d) buccal carrity
a) 114	How many pairs of s	o) esopliagus	c) pliarylix	u) buccai cavity
114.	flow many pairs of s	ballvaly glailus are pres	a) four	d) five
a) 115	two Ecophagua ia	unce	c) 10ui	u) nve
115.	LSOPHagus IS	Inches long.	a) 20	d) 40
a) 116	10 Stomach is	0) 20 om $long?$	C) 50	u) 40
110.		CIII IOIIg?	a) 20.5	d) 20.6
a)	50.5 The innermost layer	0) 30.4	C) 50.5	u) 50.0
11/.	The innermost layer	b) musses	·	d) managla larran
a)	serosa	D) mucosa	c) submucosa	d) muscle layer
118.	If a drop of off is bro	ken into smaller compo	onents, and these comp	onents are broken to
st c)	disastion	h) agastion	aler, the process would	d) againtilation
a)	algestion	b) egestion	c) emulsification	d) assimilation
119.	Pancreas 1s	$_$ in color.	\ 1	1\11
a)	yellow	b) green	c) brown	d) blue
120.	e	merges out from caecu	m.	1)
a)	pancreas	b) appendix	c) gall bladder	d) rectum
121.	1s a disorder	of digestive system that	it reduces the frequency	y of bowel movement.
a)	diarrnea	b) constipation	c) ulcer	d) vomit
122.	C	an cause denydration.		1)
a)	ulcer	b) diarrnea	c) constipation	d) none of these
125.	Ulcers that are forme	a in stomach are called	ا	d) none of these
a)	gastric ulcer	b) gastrointestinai ui	cer c)doin a& d	d) none of these
124.	A plant that has start	ed growin exhibits chic	brosis of the fellowing m	ne entire plant. the
Cr	norosis is prodably at	h) any and the first of which a deficiency of which have a deficiency of which have a deficiency of which have a deficiency of the have a deficience of the have a deficien	a) mitra and	acronutrients?
a)	Carbon	b) oxygen	c) nitrogen	d) calcium
125.	All of the following	are elements that plants	s need in very small am	iounts (micronutrients)
ex	kcept	1.)	-) - 1 -1	1)
a)	nydrogen Maat alaat aansia ti	D) iron	c) chiorine	a) copper
126.	Most plant acquire ti	heir nitrogen mainly in	the form of	1)
a)	nn_3	b) nn_4	c) cn_2n_2	d) no ₃
127.	roor eating habits ca	in cause the following (d)
a)	diabetes	b) heart attack	c) stroke	d) mumps
128.	which substance, pr	esent in soil, is used by	plants to make protein	· · · · · · · · · · · · · · · · · · ·
a)	carbon dioxideb) ox	ygen c) nitr	ates d) vita	imins
129.	which of the follows	ing does not manufactu	re digestive juice?	1)
a)	nver	b) kidneys	c) stomacn	u) pancreas

- 130. What is removed from the undigested food when it is in the large intestine? a) water b) nutrients d) sugar c) energy 131. The structure of the alimentary canal wall has 4 layers, from deep to superficial, they are a) mucosa, submucosa, serosa, muscularis layer b) mucosa, submucosa, muscularis layer, serosa c) mucosa, muscularis layer, submucosa, serosa d) mucosa, serosa, muscularis layer, submucosa 132. The sphincter that serves as a valve between the stomach and small intestine is a) cardiac sphincter b) pyloric sphincter c) glossopharyngeal sphincter d) intestinal sphincter 133. The function of liver is to a) metabolize carbohydrates, lipids and proteins b) filtration of blood c) detoxification of d) all of the above chemicals 134. Some of the functions of proteins include b) serving as structural material c) act as enzyme a) provide energy d) all of these 136. The digestive enzyme secreted by gastric glands begins the digestion of c) fat a) carbohydrates b) protein d) vitamins 137. The gall bladder a) produces bile b) is attached to the pancreas c) stores and concentration bile d) produces secretin 138. which of the following is the not accurate definition of a balance diet? a) a balanced diet is one that consists of different types of food in different amounts. b) a balanced diet is one that is low in fats and high in carbohydrates. c) a balanced diet is one that consists of different types of food in correct proportions. d) a balanced diet is one that contains food from all the food groups in the pyramid. 139. what happens when food reaches the stomach?
 - a) no digestion occurs in the stomach
 - b) the food moves quickly into the small intestine.
 - c) juices mix with the food and stomach muscles squeeze it.

d) the food is completely digested and is absorbed by tiny blood vessels in the walls of the stomach.

OUESTIONS:

Q1: Write the composition of bile juice and pancreatic juice.

Q2: Illustrate the structure of energy rich molecule.

Q3: Explain the mechanism of light and dark reaction.

Q4: List down the sources and advantages of organic fertilizers.

Q5: Define respiration & Explain the steps of aerobic respiration.

6. PHYSICS

Choose one of the following:

1.	Which one of the following	ng is	Smallest	Quantity	y?				
	a) 0.01 g	b)	2 mg		c)	$100 \mu g$		d-	5000 ng
2.	The number of significan	t figu	res in 0.0	0580 Ki	m is:-				
	a) 1	b)	2		c)	3		d-	4
3.	The unit of length in SI is	calle	ed:-						
	a) cm b)	mm	.1	, c)	dm	(DI	d-	m	
4.	The study of Biological S	cienc	ces on the	basic p	rinciple	es of Phy	sics is o	called:-	
~	a) Bio Physics b) Pla	isma	Physics 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1	c)	Astro I	Physics	d-	Geo P	hysics
5.	Least count of metre rod	1S:-		-)	0.01		Ŀ	1	
6	a) 1 mm b)	0.11	nm	C)	1 10.0	nm	0- 	I cm	
0.	A ball is dropped from un	e top	of the tov	ver. The	e distan	ice cover		In one	second will
	a) 100 meter	h)	10 meter		c)	50 meter	r	d-	5 meter
7	Force is a quantity:-	0)			0)	Junice	L	u-	Jineter
7.	a) Horizontal b) V	ertica	1	c)	Scala	r	d-	Vector	r
8.	The rate of change of velo	ocity	is called:-		Deulu	1	u	v eetoi	L.
0.	a) Acceleration	b)	Distance	e	c)	Displac	ement	d)	Relative
	motion	-)		-	-)	P			
9.	If a body moves in an irre	gula	r manner.	it is cal	led:-				
	a) rest b) I	Linea	r Motion	c) Rai	ndom N	Motion	d) Cir	rcular N	Iotion
10.	is a vector qu	antity	/:-	,			,		
	a) Mass	b)	Speed		c)	Velocity	,	d)	Volume
	11. The rolling friction is s	small	er than sli	ding fri	ction a	bout:-			
	a) 10 times	b)	100 tir	nes	c)	5 times		d)	4 times
12.	A 2 Kg object is moving	in a c	ircle with	a speed	l of 4 <i>n</i>	ιs^{-1} . If the	he radiu	us of the	e circle is
	1m. The value of centripe	etal fo	orce acting	g on the	object	will be:-			
	a) 8 N	b)	16 N		c)	32 N		d)	64 N
13.	SI- unit of momentum is:	-			,			,	
	a) Nm b) Ns			c)	NKg		d)	Nms ⁻	1
14.	Centripetal acceleration (a _c) r	epresents	as:-	υ		,		
	mv^2	1) V	,2		-)	mv		(L	v
	$a) - \frac{r}{r}$	D) -	r		C)	r^2		d)	\overline{r}
	15. First condition of equi	libriu	m is: -			_			
	a) $\Sigma \tau = 0$	b)	$\sum F = 0$)	c)	$\sum \frac{F_x}{r} =$	0	d)	$\sum \frac{F_y}{r} = 0$
16	An example of neutral eq	uilibi	ium is			$F_{\mathcal{Y}}$			P_{χ}
10.	a) Football	h)	Block		c) P	Pencil at i	ts tin	d)	Book on
	table	0)	DIOCK		C) I	chieff at I	us up	u)	Dook on
17	The direction of force F v	vith x	-axis is gi	iven by:	_				
1.1	a) $tan^{-1}\frac{Fy}{Fy}$	b)	$tan^{-1}\frac{F}{F}$	$\frac{1}{2x}$	c)	tan^{-1} F		d)	$tan^{-1}\frac{Fx}{Fx}$
	<i>Fx</i>	0)	F F	Гy	()	Fx		u)	F
18.	In System International u	nit of	Torque is	s: -	,	·· _1		•	
10	a) N	b)	Nm		c)	Nm^{-1}		d)	NS
19.	A body is in equilibrium	when	1ts: -	1.)	1				6
	a) Acceleration is un	niorn	1	d) 2	speed a	and accel	eration	are uni	IOTM
	b) The orbital aread	$of c^1$	ow only	u) A		ration 18 1	ion-uni	torm	
	b) The orbital speed	or a l	ow ordit s	satemite	18: -				

a)	Zero	b)	8 ms ⁻	-1	c)	800 m.	s ⁻¹	d)	8000)ms ⁻¹
c) a)	The value $1.7ms^{-2}$	of 'g'	on mo b)	on's surfa 1.6 ms [–]	ice is -2	: - c)	10ms ⁻²		d)	9.8ms ⁻²
d)	The value	of 'g'	at a he	eight one I	Earth	's radiu	is above th	e surfac	ce of th	ne Earth is: -
a)	2 g		b)	$\frac{1}{2}g$		c)	$\frac{1}{3}g$		d)	$\frac{1}{4}g$
e) a) 380	The distan 000 Km	$\begin{array}{c} ce of I \\ b \\ c \\ c \end{array}$	Moon 1 800 Ki	from Eartl m	h is n c)	early: - 37000) Km	d)	37000	0 Km
t) a)	The value $3.7ms^{-2}$	of gra	b)	nal accele 1.62 ms	rat_{10}	n on the c)	$10ms^{-2}$	t Moon	1s: - d)	9.8ms ⁻²
g) a) Er	Electrical en	y store nergy	b)	ater dam i Potential I	is: - Energ	gy c)	Kinetic Er	nergy	d)	Thermal
h)	If a force of magnitude	of 25 N	V pulls	a stone th	irowi	n at a di	istance of 5	5 m in i	ts dire	ction. The
a) 125	J	b) 1	00 J	100.	c)	50 J		d)	150 J	
i)	An input o machine is	f 500 45%	joule h then o	as been p utput will	rovic be: -	led to a	machine.	If the effective of the left o	fficien	cy of this
a) i)	500 J Energy du	e to m	b) otion (225 J		c)	255 J		d)	252 J
) a)	Electric The rote of	e to m	b)	Chemica	 1	c)	Kinetic		d)	Potential
к) a)	Power	i doing	b)	Work		c)	Energy	c 1 1	d)	Stress
1) a)	Kinetic en Square	ergy 19	b)	Two tim	tiona ies	l to the c)	Three tin	t a body nes	y: - d)	Four times

NUMERICALS:

- **1.** A car is moving with constant velocity of 100ms⁻¹. Find its acceleration.
- **2.** When a body possess a charge in momentum of 270NS during a change in time of 10s, find the magnitude of force.
- **3.** Convert 120 watt into horse power (hp).
- 4. When speed of particle triples, by what factor does its kinetic energy increases?
- 5. How much work can 3 hp do in 1h?
- 6. Prove value of g at surface of moon is 4.63 ms.

7. CHEMISTRY

CHAPTER 1 FUNDAMENTALS OF CHEMISTY

Choose the correct answer for each of the following.

1. The alchemist tried to convert the base metal into:

(a) Mercury (b) iron (c) gold (d) copper

2. The branch of chemistry that deals with the laws and principles concerning changes in matter and energy is called:

(a) Organic chemistry (b) physical chemistry (c) biochemistry (d) copper

3. A pure substance that cannot be broken down into simpler substances by any physical or chemical means is called:

(a) element	(b) compound	(c) homogeneous mixture	e (d) heterogeneous
mixture			
4. Which of the following	ing compound has both e	mpirical and molecular for	rmula identical?
(a) benzene(C_6H_6)	(b) hydrogen peroxide(H_2O_2) (c) water(H_2O)	(d) glucose($C_6H_{12}O_6$)
5. Which of the followi	ing elements is taken as s	tandard for the determinat	ion of relative atomic
masses of the elements			
(a) $r_2 I^{235}$	(b) 10^{20}	$(c) \circ O^{16}$	(d) C^{12}
(a) 920		(0) 80	$(u)_{6}c$
6. The gram molecular	mass of HNO ₃ is		
(a) 60	(b) 100	(c) 63	(d) 98
7. Which one of the fol	lowing is a homogeneou	s mixture?	
(a) smoke	(b) air	(c) fog	(d) smog
8. Which one of the fol	lowing group is comprise	ed of the elements?	
(a) Mercury, silica, bra	ss (b) iodine, tin,	iron (c) copper, alumin	ium, bronze (d) coal,
smoke, fog			
9 Which one of the fol	lowing is a chemical pro	nerty of a substance?	
(a) a a lubility	(b) density	(a) malting point	(d) assures in the second
		(c) menting point	(d) corrosion
10. Which of the follow	ving can be broken down	into simpler substances:	
(a) ammonia	(b) oxygen	(c) sulphur	(d) iron filling
11. Study of matter is c	alled		
(a) Chemistry	(b) Law	(c) Science	(d) Theory
12. Pre testing explanat	tion given to a natural ph	enomenon is known as	·
(a) Theory	(b) Law	(c) Hypothesis	(d) Phenomenon
13. The tested & verified	ed hypothesis is known a	S	
(a) Theory	(b) Law	(c) Hypothesis	(d) Phenomenon
14. Some generalization	n related to a verified the	ory after a long time is kn	own as.
(a) Theory	(b) Law	(c) Hypothesis	(d) Phenomenon
15. At the development	tal stages of Chemistry, a	incient Arab chemists were	e known as
(a) Scientists	(b) Al-chemists	(c) Chemists	(d) Biologists
16. All the medicines &	k industrial products are	the gifts of Cher	mistry.
(a) Industrial	(b) Physical	(c) Inorganic	(d) Organic
17. Avogadro's number	r of molecules is contained	ed in one of amm	ionia gas.
(a) Atoms	(b) Mole	(c) Grams	(d) Kilograms
18.In chemical reaction	is reactants must undergo	a change in orde	er to form new products.
(a) Physical	(b) Chemical	(c) Both a and b	(d) None
19.One mole of nitroge	en (N ₂) contains nu	umber of nitrogen atoms.	
(a) Mole	(b) Avogadro's	(c) Empirical	(d) Molecular
20. Empirical formula	of a compound is also cal	lled its formula.	
(a) Molecular	(b) Complex	(c) Simple	(d) None
21. Rusting of iron is a	change.		
(a) Chemical	(b) Physical	(c) Both a and b	(d) None
22. Empirical formula	of benzene is		
(a) CH	(b) C_2H	(c) CHO	(d) $C_2 H_2$
23. In an element all th	e atoms have same	;	
(a) Electrons	(b) Protons	(c) Neutrons	(d) Both a and b
24. Mass of 2.0 moles of	of H_2O is g.	() 	
(a) 18	(b) 36 g	(c) 35.5	(d) 36.5
25. The mass per unit v	volume is called		
(a) Volume	(b) Mass	(c) Melting point	(a) Density
26 The ferminal 1	ala arrea dha a airean 1 - d a di	hatman atoms and the	o oomaana di 11 - 1
20. The formula which	shows the simplest ratio	between atoms present in	a compound is called
IOTINUIA.	(h) Comular	(a) Cimm ¹ -	(d) Empirical
(a) Molecular	(b) Complex	(c) simple	(u) Empirical

27. Number of particles in mole of a substance is called _____ number. (b) Avogadro's (c) Empirical (a) Mole (d) Molecular 28. The sum of atomic masses of elements present in one molecule is called _ mass. (a) Atomic (b) Molecular (c) Formula unit (d) Empirical 29. Which of the following quantities of Chlorine contain one moles of chlorine gas? (a) 71.0 g (b) 22g (c) 35.5g (d) 36.5 g 30. 0.5 mole of H₂O contains the number of molecules. (b) 3.01×10^{23} (c) 1.204×10^{23} (a) 6.02×10^{23} (d) 4.01×10^{23} 31. The atomic mass of chlorine is (a) 35.5 g (b) 71.6g (c) 37.7 g (d) 33.3g 32. Formula of Methane is ____ (a) CH_4 (b) C_2H_2 (c) C_2H_6 (d) C_2H_4 33. Which of the following is a compound? (b) Air (c) Water (d) Smoke (a) Mercury 34. The main aim of alchemist was to (a) convert base metal in to gold (b) to produce iron (c) to produce Fe (d) To produce salt 35. Anything which occupies space and has a mass is called (b) matter (a) metal (c) alloy (d) mixture The smallest particle of matter which cannot exist free in nature and cannot be further sub divided is known (b) mixture (c) atom (d) ion (a) element 37. Pure matter is known as (a) matter (b) substance (c) mixture (d) compound 38. A pure substance that cannot be broken down in to simpler substances by physical or chemical means is called (b) mixture (a) element (d) ion (c) atom 39. A pure substance that is made up of two or more elements in definite proportion by mass is called (b) substance (c) mixture (d) compound (a) matter 40. Combination of two or more substances in different proportion is called (a) matter (b) substance (c) mixture (d) compound 41. The charge particle is called (a) element (b) mixture (c) atom (d) ion 42. The species with unpaired electron is called (b) mixture (a) element (c) atom (d) radical 43. The smallest particle of element or compound which can exist in free state & can be further decompose is (a) radical (b) molecule (c) atom (d) ion 44. The branch of chemistry which deals with the study of all elements & their compounds except hydrocarbons & their derivatives is called ______ chemistry. (a) Industrial (b) Physical (c) Inorganic (d) Organic 45. The branch of chemistry which deals with the qualitative & quantitative analysis of matter is called analytical chemistry is called ______ chemistry. (a) Industrial (b) analytical (c) Inorganic (d) Organic 46. The branch of chemistry deals with the study of the changes occurring in the nuclei of atoms accompanied by the emission or absorption of radiations is called chemistry. (a) nuclear (b) Physical (c) Inorganic (d) Organic 47. The branch of chemistry deals with the techniques & chemical processes for the preparation of different industrial products like cement, glass, plastic, fertilizers, etc is called ______ chemistry. (a) Industrial (b) Physical (c) Inorganic (d) Organic 48. The branch of chemistry which deal with the synthesis & decomposition of the compounds & their reactions on the living organisms, such as plants, animals & human being is called _____ chemistry. (a) Industrial (b) bio (c) Inorganic (d) Organic 49. The branch of chemistry deals with the interaction of chemical processes with the environment & their interaction on it, such as air pollution & water pollution is called ______ chemistry. (a) Industrial (b) Physical (c) environmental (d) Organic 50. The charge particle is called (a) element (b) mixture (d) ion (c) atom 51. A pure substance which is a combination two or more elements in definite proportion by mass. (a) element (b) mixture (c) atom (d) compound 52. The total number of proton present in the nucleus of atom is called ______number (b) molecular (d) empirical (a) atomic (c) ionic 55. The total number of proton and neutron present in the nucleus of atom is called number (a) atomic (b) molecular (c) ionic (d) mass 56. The mass of elements are determined by comparing them with a mass of standard atom that is ${}_{6}{}^{12}C$ is called _atomic mass (a) absolute (b) relative (d) mean (c) average 57. The quantity one twelfth (1/12) of the mass of an atom C_12 is called one atomic mass unit is (a) bmu (b) amu (c) esu (d) etu 58. When the relative atomic mass of element is taken in gram it is known as gram _____ mass. (b) molecular (c) ionic (a) atomic (d) mass 59. The simplest formula that gives the smallest whole number ratio of the atoms in a compound. is called formula. (b) molecular (a) empirical (c) ionic (d) mass 60. The formula which represents actual number of atoms of each element in a molecule is called formula. (a) empirical (b) molecular (c) ionic (d) mass 61. The sum of atomic masses of all atoms present in molecule is called _____ mass. (a) empirical (b) molecular (c) ionic (d) mass 62. The molecular mass of the molecules when taken in gram is called gram _____ mass. (a) empirical (b) molecular (c) ionic (d) mass 63. The sum of atomic masses of all ions present in a formula unit is called ______mass (a) empirical (b) molecular (c) ionic (d) formula 64. An atom or group of atoms, which take part in a chemical reaction, is called a ______species (a) chemical (b) physical (c) bio (d) analytical 65. A charge particle is known as (a) element (b) mixture (c) atom (d) ion 66. A radical is a specie containing an unpaired electron known as _____radical (a) free (b) bound (d) one (c) alone

CHAPTER 2 STRUCTURE OF ATOM

1. The building blo	ocks of elements are			
(a)Atoms	(b) Ions	(c) Radicals	(d) Molecules	
2. The total number	er of protons present ir	the nucleus of an ato	om is called	
(a)Mass number	(b) Atomic number	(c) Atomic r	adius (d) Atomic mass	
3. Electron revolve	e around the nucleus in	n fixed		
(a)Sub shells (b) Orbits	(c) Circles	(d) Levels	
4. The number of e	electrons in the outer r	nost shell of potassiu	m (at. No.19) is	
(a)1 (b)2	(c)4	(d)6	
5. If we know the	, atomic number & mas	s number of an atom	we can find its number of	
(a) Protons (b) Electrons	(c) Neutrons	(d) All a , b and c	
6. Atomic number	is denoted by symbol			
(a) Z (b) A	(c) L	(d) O	
7. Alpha particles	contain two	charges	× /	
(a)Negative (b) Positive	(c) Neutral	(d) None of a.b.c	
8. The	orbit can accommoda	te up to eight electron	18.	
(a)Second (b) Third	(c) Fourth	(d) Fifth	
9. The maximum r	number of electron in a	a particular orbit is gi	ven by formula	
(a) $2n^2$ (b)	$) 2n^3$	$(c) \lambda r 2$	(d)nh/2T	
$\begin{array}{c} (a) \ 2 \\ 10 \ An atom havin \end{array}$) 211 a atomia No 7 will ha	$(C) \pi I 2$	(d) III/21	all
10. An atom navin	g atomic No. / will na	ve	electrons in its outermost si	ien.
$(a)\delta$ (D)) 	(C)Z	$(\mathbf{u})10$	
11. What makes an (a) Electron (b)	h atom of an element c	(a) Newtron	(d) All a h a	
(a) Electron (b)) Proton	(c) Neutron	(\mathbf{d}) All $\mathbf{a}, \mathbf{b}, \mathbf{c}$	1 £
12. The total numb	per of protons present	in the nucleus of an a	tom is called num	ber of
that element.				
(a)Mass number	(b) Atomic number	(c) Atomic r	adius (d) Atomic mass	
13. The sum of pro	otons and	present in the n	ucleus of an atom is called its r	nass
number.		/ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \		
(a)Electron (t	b) Proton	(c) Neutron	(d)All a, b, c	
14. The maximum	number of electrons 1	n the 1^{st} orbit is		
(a) 8 (t	5)2	(c)18	(d)36	1 0
15. As atom is elec	ctrically neutral b/c the	e number of protons 1	n the nucleus is to the i	number of
electrons.				
(a)Equal	(b) Unequal	(c) Opposite	(d)All a, b, c	
16. The word atom	n means	particle.		
(a)Divisible	(b) Indivisible	(c) Large	(d)All a,b,c	
17. Hydrogen has	positive charge called			
(a) Neutron (b) Proton (c) Electron	(d) atom	
18. The maximum	number of electron in	third energy level is		
(a)10 (b)18	(c)32	(d)64	
19. The K-shell ca	n accommodate	number	of electrons	
(a)2	(b)6	(c)8	(d)18	
20. The	particle is the	ne lightest one.		
(a) An alpha	(b) A Hydrogen	(c)An Electron	(d)A Proton	
21. Electron does	not	in its ground s	tate	
(a) Spin	(b) Revolve	(c) Radiate energy	(d) Reside in orbit	
22. Rutherford bor	nbarded a gold foil by			
(a)Alpha particles	(b) Beta particles	(c) Gamma rays	(d) Beta particles	
23. Electron does	not radiate energy whe	en it		
(a) Deside in subit				
(a) Reside in orbit	(b) Jump to higher o	rbit (c) Falls in nu	cleus (d) Jump from highe	er to
lower orbit	(b) Jump to higher o	rbit (c) Falls in nu		er to
(a) Reside in orbitlower orbit24. Isotopes of an	(b) Jump to higher o element have differen	rbit (c) Falls in nu	cleus (d) Jump from highe	er to

25. ${}^{12}{}_{6}C$, ${}^{13}{}_{6}C$, ${}^{14}{}_{6}C$ are (c) Allotropes (a)Isotope (b) Isomers (d) Isobars 26. The most abundant isotope of hydrogen is _____ (a) Protium (b) Deuterium (c) Tritium (d) Both a & c 27. Alpha particles carry _____ ___ charge (a) Positive (b) Negative (c) Double negative (d) Double Positive 28. The mass of α -particles is equal to the _____ nucleus 29. The value of planks constant is _____ i second (a)6.626 x 10⁻²³ (d) Nitrogen 29. The value of planks constant is ______j second. (a) 6.626×10^{-23} (b) 6.626×10^{-34} (c) 6.023×10^{-24} (d)1.667 x 10⁻²⁸ 30. Atomic spectrum is a spectrum (b) Continuous (a) Line (c) Emission (d) Absorption 31. The energy of an electron is _____ in a specific shell (a) Variable (b) Constant (c) Greater (d) Less 32. The angular momentum of an electron revolving around the nucleus of an atom will be _____ $(a)nh/2\lambda$ (b)nh²/2 λ (c)nh³/2 λ (d)non of these 33. The velocity of electron is represented by _____ (a) υ (b) λ (c) δ 34. p- orbital can have a maximum of _____ electron (d) v (a)2 (b) 6 (c) 8 (d)10 35. The p & d sub –shell consist of _____ and _____ orbital respectively (c) 7 (d) 8 (a) 3 (b) 5 ______ shaped p-orbital are (a) Dumbbell (b) Spherically (c) Fundamental (d) Sharp f-orbital is ______ shaped (a) Spherical(b) Fundamental(c) Sharpf-orbital contain_______number of electrons.(a) 10(b) 18(c) 8 (d)Dumb bell (d) 2 Electronic configuration is arrangement of _____ (a) Proton (b) Electron (c) Neutron (d) Nucleon 40. Different atoms of same elements having same chemical properties & different physical properties are called _____ (b) Allotrope (a) Isotope (c) Isobar (d) Isomers (a)Protium(b) DeuteriumUranium has ______ atomic number. (b) 93 (c) 94 (a) 92 (d) 89 43. The age of uranium containing material can be determined by measuring the percentage of _____ formed (c) Mercury (a)Phosphorous (b) lead (d) Non of these 44. The half life of C)14 is _____ years. (a) 5700 (b) 5600 (c) 5000 (d) 5500 45. If U has atomic number 235 & mass number 92 then it has _____ number of neutrons. (b) 143 (c) 147 (d) 141 (a) 142 46. Chlorine 37 has _____ number of neutron. (b) 20 (c) 19 (d) 17 (a) 18 (a) 18 (b) 20 (c) 19 (d) 17 47. Chlorine reacts with hydrogen _____ time faster than it reacts with deuterium (a) Five (b) Six (c) Four (d) Two **CHAPTER NO 3 PERIODIC TABLE AND PERIODICITY OF PROPERTIES** 1.Atomic weight is a) fundamental property of element b)not a fundamental property of element c) fundamental property of atom d) a fundamental property of compound 2. Wavelength of x-rays emitted by each element depends upon. a. Its atomic weight b. Atomic radius c. Atomic number d. Its atomic size

3. The vertical columns of elements in periodic table are called. b. Periods c. Decedents a. Groups d. Ascendants 4. The alkali metals are chemically very active due to a. Electron capturing b. Electron affinity c. Low I.P d. Electro negativity 5. The elements which require one electron to complete their outermost shell can be placed in group c.VI A d. VII A a. I A b.III A 6. For completion of outermost shell number of electron required by the group V elements are. d. 6 a.3 b. 4 c. 7. Which one of the following metals is the transition metal? d. Be Ca a.Na b. Fe c. 8. Which of the following is different from the others? Al d. Ca a.Mg b. Ar C. 9. Dobereiner arranged the elements into groups of _ a.9 elements b.7 elements с. 3 elements d. 5 elements 10. Elements that has properties of both metals & non-metals are called. b.Non metals c. Metalloids a. Metals d. None of a,b,c 11. The elements having the tendency of losing electron is b. P C1 c. O d. a.K 12. Which one is alkaline earth metal? d. Na a.Mg h Li Ar c. 13. The solid but unstable member of the halogen group is Phosphorous c.Iodine a. Astatine b. d. chlorine 14. The most reactive member of halogens is c. F b. d. Br a.Cl T 15. Oxygen & Sulphur belong to the group c. VI-A VII-A a.II-A b. III-A d. 16. The sixth period that is long period consist of 25 Elements b. 28 Elements c. 32 elements d. 34 elements a. 17. Groups of periodic table are divided into a.3 Subgroups b. 2 Subgroups c. 4 Subgroups d. 5 Subgroups 18. Atomic radius is a) The size of a single atom b) $\frac{1}{2}$ of the distance of orbit from nucleus c) $\frac{1}{2}$ of distance b/w the nucleus of the two adjacent atoms. c) $\frac{1}{2}$ of the size of an atom. 19. Ionization energy mainly depends upon a) The nuclear charge & electro negativity b) The nuclear charge & atomic mass c) The nuclear charge & valance electron c) The nuclear charge & atomic size 20. Electro negativity of an element tells about the tendency of the atom to c. Lose protons Attract electrons b. lose electron d. Attract protons a. 21. The tendency of an atom to acquire an electrons in the outermost orbit to have eight electrons is called a.Newland rule b. Octet rule c. Faraday d. None of a, b, c 22. An element is placed in group VI A of the periodic table. The number of electrons in its outermost shell is d. 5 electrons 6 electron b. 3 electrons c. 4 electrons a 23. If we move from left to right in a period, ionization energy values have a change in Increasing order c. No change Decreasing order b. d. None of a, b, c a. 24. The electro negativity of an element will be high if it is. a. Small atom & most filled valence shell b. Small atom & nearly filled valence shell d. Large atom & not filled valence shell c. Large atom & most filled valence shell 25. If we move down in a group the E.N decreases be cause. a. The number of neutron increases b. Nucleus charge increases c. Atomic radius increases d. Both a & b 26. The elements starting from atomic numbers 89 to 102 are called b. Actinides c. Alkaline earth metals a. Lanthanides d.Coinage metals

27. The valence shell of alkali metals contain ______ electron. a.1 b. 2 c. 3 d. 4 28. The 1st group elements are also termed as _____ a Lanthanides b. Alkali metals c. Alkaline earth metals d. Coinage metals 29. The carbon family contains ______ electrons in outer most shell. b. 4 d.6 3 c. 5 a. 30. The ionization potential _____ down the group. Decreases b. Increases c. Constant d. None a. 31. Mendeleve predicted _____ of the undiscovered elements. Properties b. Length c. Mass d. Volume a. 32. Repetition of a property at regular _____ is called _____ of the property. Interval, periodicity b. Interval, period c. Periodicity d. Interval a. 33. The second ionization energy is _____that the first ionization energy. a. Less b. Greater c. Equal d. Less equal 34. Mendeleev arranged the elements in the order if their increasing c. Valency d. Group Atomic masses b. Atomic no. a. 35. He, Ne & Ar are _____ elements b. Alkali a.Noble c.Alkaline earth metals d. Coinage metals 36. Elements present in the A)Subgroup of the periodic table are sometimes called ______ elements. a. Lanthanides b. Normal c. Alkaline earth metals d. Transition metals 37. There are _____ periods in the periodic table. a. 8 b. 7 c. 4 d.5 38. The inner transition elements of sixth period are called c. Transition b. Radioactive d. d)block elements Lanthanides a. 39. Non-metals are present in group _____ to _____ of periodic table. b. VI-VII c. VII-VIII V-VI d. None a. 40. In a period, from left to right metallic character of the elements Decreases b. Increases c. Constant d.None of these a. 41. The non-metal of group VIII-A are called b.Boron family c. Alkaline earth metals a. Noble gases d. Coinage metals 42. The halogens have 7 electrons in their outer most shell, their valency is ____ c. 5 d. 1 b. 8 a. 7 43. Fluorine is _____ reactive than Chlorine. d.None of these More b. Less c. Equal a. 44. All the s & p block elements are called)-----elements. a. alkaline earth b. representative c.halogens d. transition 45. Out of 118 elements -----elements are naturally occurring. a. 90 b. 91 c.92 d.93 46. The law of triads was presented by-----b. Dobereiner c. Lother Meyer a.Newland d. Mosely 47. The modern periodic table is based on the----a. law of triad b.law of octaves c.mendeleev's periodic table d.modern periodic law 48. Another name for group VII is----b. alkaline earth metals c.halogen a. alkali metals d. noble gases 49. Which of the following group does not belong to p-block elements. a. group I b.group III c. group V d.group VII

CHAPTER 4 STRUCTURE OF MOLECULE

1. Good conductor of ele	ctricity is,	
(a) Molten NaCl	(b)Solid MgCl ₂ (c) Sugar	(d) Solid NH ₄ Cl

2. Mercur	y is in liquid state a bond.	at room tempera	ture; its atoms	are bonded t	o each other by means of
(a) Cov	alent	(b) Ionic	(c) N	Metallic	(d) Co-ordinate
covalent	Į				
3. Which	one is not a polar n	nolecule?			
(a) H ₂ O		(b) CO	(c)H	2	(d) HCl
4. The bo	nd present in hydro	gen (H ₂) molecu	ıle,	~ .	
(a) Ioni	c	(b) Polar cova	lent (c) (Covalent (d) Non-polar covalent
5. The los (a) Sing	ing gaining of elec	tron leads to (b) Double cov	bond valent (c) I	onic (d) Triple covalent
6. When i	nagnesium comple	tes its octet duri	ng a chemical (c) T	eaction it fo	rms ion.
7 The po	sitive charge on ato	(b) Di positive	(C) I	iipositive (
(a) Mor	re electrons than pro	otons (b)	More protons	s than electro	ons (c) More protons than
neutron	(d) More r	eutrons than ele	ctrons	1	11 ' 11 1
8. In the p	eriodic table the gr	oup which conta	Noble gases	uter most she	ell 1s called
(a) Alka (d)	Alkaling earth	(U) metal	Noble gases	(C) 11ai	isition cicilicitis
9 When a	a metal atom transfe	ers one or more	electrons to no	n- metal the	bond formed is
(a) Ioni	c	(b) Covalent	(c) Co-or	dinate coval	ent (d) Polar covalent
10. The me	etals which have the	e lowest ionizati	on energies bel	ong to group).
(a) I		(b) II	(c) III		(d) IV
11. At roor	n temperature ionic	compounds are	·,		
(a) Soli	ds	(b) Liquid	(c)	Gases	(d) Both a & b
12. The bo	nd present in Cl ₂ is	,			
12. The box (a) Cov	nd present in Cl ₂ is alent	, (b) Po	lar covalent	(c) Co-o	rdinate covalent
12. The bo (a) Cov (d)	nd present in Cl_2 is alent Metallic	, (b) Pc	lar covalent	(c) Co-o	rdinate covalent
12. The bo (a) Cov (d) 13. The bo	nd present in Cl ₂ is alent Metallic nd in which the sha bond	, (b) Po ared electron pair	lar covalent r is donated by	(c) Co-o one of the tw	rdinate covalent wo bonding atoms is
12. The bo (a) Cov (d) 13. The bo (a) Cov	nd present in Cl ₂ is alent Metallic nd in which the sha bond alent	, (b) Po ared electron pair (b) Co	olar covalent r is donated by p-ordinate cova	(c) Co-o one of the tw lent	rdinate covalent wo bonding atoms is
12. The bo (a) Cov (d) 13. The bo (a) Cov (c) Ioni	nd present in Cl ₂ is alent Metallic nd in which the sha bond alent c	, (b) Po ared electron pair (b) Co (d) No	olar covalent r is donated by p-ordinate cova	(c) Co-o one of the ty lent	rdinate covalent wo bonding atoms is
 12. The bo (a) Cov (d) 13. The bo (a) Cov (c) Ioni 14. At roor 	nd present in Cl ₂ is alent Metallic nd in which the sha bond alent c n temperature cova	, (b) Po ared electron pair (b) Co (d) No lent compounds	olar covalent r is donated by p-ordinate cova one of a, b, c are	(c) Co-o one of the tw llent	rdinate covalent wo bonding atoms is
12. The bo (a) Cov (d) 13. The bo (a) Cov (c) Ioni 14. At roor (a) Soli	nd present in Cl ₂ is alent Metallic nd in which the sha bond alent c n temperature cova ds	, tred electron pair (b) Co (d) No lent compounds (b) Lio	olar covalent r is donated by p-ordinate cova one of a, b, c are juids (c) B	(c) Co-o one of the ty lent oth a &b	rdinate covalent wo bonding atoms is (d) None of a, b,
12. The bo (a) Cov (d) 13. The bo (a) Cov (c) Ioni 14. At roor (a) Soli c	nd present in Cl ₂ is alent Metallic nd in which the sha bond alent c n temperature cova ds	, ared electron pair (b) Co (d) No lent compounds (b) Lic	olar covalent r is donated by p-ordinate cova one of a, b, c are quids (c) B	(c) Co-o one of the tw lent	rdinate covalent wo bonding atoms is (d) None of a, b,
 12. The bo (a) Cov (d) 13. The bo (a) Cov (c) Ioni 14. At roor (a) Soli c 15. The nit 	nd present in Cl ₂ is alent Metallic nd in which the sha bond alent c n temperature cova ds rogen atom in NH ₃	, (b) Po ared electron pair (b) Co (d) No lent compounds (b) Lic has number	olar covalent r is donated by p-ordinate cova one of a, b, c are quids (c) B	(c) Co-o one of the ty lent oth a &b	rdinate covalent wo bonding atoms is (d) None of a, b,
12. The bo (a) Cov (d) 13. The bo (a) Cov (c) Ioni 14. At roor (a) Soli c 15. The nit (a) 2	nd present in Cl ₂ is alent Metallic nd in which the sha bond alent c n temperature cova ds rogen atom in NH ₃	, (b) Po ared electron pair (b) Co (d) No lent compounds (b) Lio has number (b) 4	olar covalent r is donated by p-ordinate cova one of a, b, c are quids (c) B r of lone pairs o	(c) Co-o one of the tw lent oth a &b of electrons. (c) 1	rdinate covalent wo bonding atoms is (d) None of a, b, (d) 3
12. The bo (a) Cov (d) 13. The bo (a) Cov (c) Ioni 14. At roor (a) Soli c 15. The nit (a) 2 16. A cova (c) Pole	nd present in Cl ₂ is alent Metallic nd in which the sha bond alent c n temperature cova ds rogen atom in NH ₃ lent bond formed b	, (b) Po ared electron pair (b) Co (d) No lent compounds (b) Lic has number (b) 4 etween two diss	olar covalent r is donated by p-ordinate cova one of a, b, c are juids (c) B r of lone pairs o imilar atoms is	(c) Co-o one of the tw lent oth a &b of electrons. (c) 1	rdinate covalent wo bonding atoms is (d) None of a, b, (d) 3 bond
 12. The bo (a) Cov (d) 13. The bo (a) Cov (c) Ioni 14. At roor (a) Soli c 15. The nit (a) 2 16. A cova (a) Pola (d) 	nd present in Cl ₂ is alent Metallic nd in which the sha bond alent c n temperature cova ds rogen atom in NH ₃ lent bond formed b ir covalent none of a, b, c	(b) Po ared electron pair (b) Co (d) No lent compounds (b) Lic has number (b) 4 etween two diss (b) No	olar covalent r is donated by p-ordinate cova one of a, b, c are quids (c) B r of lone pairs o imilar atoms is on- Polar coval	(c) Co-o one of the tw lent oth a &b of electrons. (c) 1 ent (rdinate covalent wo bonding atoms is (d) None of a, b, (d) 3 bond c)Co-ordinate covalent
12. The bo (a) Cov (d) 13. The bo (a) Cov (c) Ioni 14. At roor (a) Soli c 15. The nit (a) 2 16. A cova (d) Pola (d) 17. The model (a) Cov	nd present in Cl ₂ is alent Metallic nd in which the sha bond alent c n temperature cova ds rogen atom in NH ₃ lent bond formed b r covalent none of a, b, c ost probability of fo	, (b) Po ared electron pair (b) Co (d) No lent compounds (b) Lio has number (b) 4 etween two diss (b) No	olar covalent r is donated by p-ordinate cova one of a, b, c are juids (c) B r of lone pairs of imilar atoms is on- Polar coval	(c) Co-o one of the ty lent oth a &b of electrons. (c) 1 ent (the element	rdinate covalent wo bonding atoms is (d) None of a, b, (d) 3 bond c)Co-ordinate covalent s of the groups is,
 12. The bo (a) Cov (d) 13. The bo (a) Cov (c) Ioni 14. At roor (a) Soli c 15. The nit (a) 2 16. A cova (a) Pola (d) 17. The mode (a) Grow 	nd present in Cl ₂ is alent Metallic nd in which the sha bond alent c n temperature cova ds rogen atom in NH ₃ lent bond formed b r covalent none of a, b, c ost probability of fo up II A & III A	, (b) Po ared electron pair (b) Co (d) No lent compounds (b) Lic has number (b) 4 etween two diss (b) No prmation of ionic (b)	olar covalent r is donated by p-ordinate cova one of a, b, c are quids (c) B r of lone pairs of imilar atoms is on- Polar coval bond between Group II A &	(c) Co-o one of the tw lent r oth a &b of electrons. (c) 1 ent (the element r VI A	rdinate covalent wo bonding atoms is (d) None of a, b, (d) 3 bond c)Co-ordinate covalent s of the groups is,
12. The bo (a) Cov (d) 13. The bo (a) Cov (c) Ioni 14. At roor (a) Soli c 15. The nit (a) 2 16. A cova (d) 17. The mo (a) Grov (c) Grov	nd present in Cl ₂ is alent Metallic nd in which the sha bond alent c n temperature cova ds rogen atom in NH ₃ lent bond formed b ar covalent none of a, b, c ost probability of fo up II A & III A up III A & IV A	, (b) Po ared electron pair (b) Co (d) No lent compounds (b) Lic has number (b) 4 etween two diss (b) No prmation of ionic (b) (d)	olar covalent r is donated by p-ordinate cova one of a, b, c are juids (c) B r of lone pairs of imilar atoms is on- Polar coval bond between Group II A & group V-A &	(c) Co-o one of the tw lent oth a &b of electrons. (c) 1 ent (the element z VI A z VI-A	rdinate covalent wo bonding atoms is (d) None of a, b, (d) 3 bond c)Co-ordinate covalent s of the groups is,
12. The bo (a) Cov (d) 13. The bo (a) Cov (c) Ioni 14. At roor (a) Soli c 15. The nit (a) 2 16. A cova (d) 17. The mo (a) Grov (c) Grov 18. Which	nd present in Cl ₂ is alent Metallic nd in which the sha bond alent c n temperature cova ds rogen atom in NH ₃ lent bond formed b ur covalent none of a, b, c ost probability of fo up II A & III A up III A & IV A has non polar cova	, (b) Po ared electron pair (b) Co (d) No lent compounds (b) Lic has number (b) 4 etween two diss (b) No prmation of ionic (b) (d) lent bond,	olar covalent r is donated by o-ordinate cova one of a, b, c are quids (c) B r of lone pairs of imilar atoms is on- Polar coval bond between Group II A & group V-A &	(c) Co-o one of the two lent so tha &b of electrons. (c) 1 ent (the element z VI A z VI-A	rdinate covalent wo bonding atoms is (d) None of a, b, (d) 3 bond c)Co-ordinate covalent s of the groups is,
12. The bo (a) Cov (d) 13. The bo (a) Cov (c) Ioni 14. At roor (a) Soli c 15. The nit (a) 2 16. A cova (b) Pola (c) Ioni 14. At roor (c) Group 17. The model (c) Group 18. Which (a) NH $_{2}$	nd present in Cl ₂ is alent Metallic nd in which the sha bond alent c n temperature cova ds rogen atom in NH ₃ lent bond formed b r covalent none of a, b, c ost probability of fo up II A & III A up III A & IV A has non polar cova	, (b) Po ared electron pair (b) Co (d) No (d) No lent compounds (b) Lic has number (b) 4 etween two diss (b) No ormation of ionic (b) (d) lent bond, (b) SO	olar covalent r is donated by p-ordinate cova one of a, b, c are juids (c) B r of lone pairs of imilar atoms is on- Polar coval bond between Group II A & group V-A &	(c) Co-o one of the tw lent - oth a &b of electrons. (c) 1 ent (the element z VI A z VI-A (c) H ₂ S	rdinate covalent wo bonding atoms is (d) None of a, b, (d) 3 bond c)Co-ordinate covalent s of the groups is, (d) Cl ₂
 12. The bo (a) Cov (d) 13. The bo (a) Cov (c) Ioni 14. At roor (a) Soli c 15. The nit (a) 2 16. A cova (a) Pola (d) 17. The model of the second seco	nd present in Cl ₂ is alent Metallic nd in which the sha bond alent c n temperature cova ds rogen atom in NH ₃ lent bond formed b r covalent none of a, b, c ost probability of fo up II A & III A up III A & IV A has non polar cova	, (b) Po ared electron pair (b) Co (d) No lent compounds (b) Lio has number (b) 4 etween two diss (b) No ormation of ionic (b) (d) lent bond, (b) SO	olar covalent r is donated by p-ordinate cova one of a, b, c are juids (c) B r of lone pairs of imilar atoms is on- Polar coval cond between Group II A & group V-A &	(c) Co-o one of the tw lent 	rdinate covalent wo bonding atoms is (d) None of a, b, (d) 3 bond c)Co-ordinate covalent s of the groups is, (d) Cl ₂
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12. The bo (a) Cov (d) 13. The bo (a) Cov (c) Ioni 14. At roor (a) Soli c 15. The nit (a) 2 16. A cova (b) Cov (c) Grov 17. The model (c) Grov 18. Which (a) NH ₃ 19. The bo (b) Cov (c) Cov (c) Grov 18. Which (c) Ioni 20. The example.	nd present in Cl ₂ is alent Metallic nd in which the sha bond alent c n temperature cova ds rogen atom in NH ₃ lent bond formed b ur covalent none of a, b, c ost probability of fo up II A & III A up III A & IV A has non polar cova and in HCl is c ample of ionic com	, (b) Po ared electron pair (b) Co (d) No (d) No (elent compounds (b) Lio (b) A etween two diss (b) No ormation of ionic (b) (c) lent bond, (b) So (c) Covalent pound is,	olar covalent r is donated by p-ordinate cova one of a, b, c are juids (c) B r of lone pairs of imilar atoms is on- Polar coval bond between Group II A & group V-A & D ₂ (c) Polar cov	(c) Co-o one of the tw lent oth a &b of electrons. (c) I ent (the element z VI A z VI-A (c) H ₂ S alent	rdinate covalent wo bonding atoms is (d) None of a, b, (d) 3 (d) 3 (d) 3 (d) 3 (d) Cl ₂ (d) Cl ₂ (d) Co-ordinate Covalent

(a) $U O^+$	ate covalent bond	s,	
(a) H_3O^2		$(C)H_2O$	(d) CH_4
(a) They are solids	l states are non-coi	(b) Their ions are	not free to move
(c) They do not have free	electrons	(d) They have big	molecules
23. Ionic bond is formed bet	ween two atoms ha	ving E.N difference of	,
(a) 1.7 or above	(b) less than 1.7	(c) 1.8 or ab	ove (d) Less than 1.8
24. Elements on the left hand	l side of the period	ic table have value	es of E.N
(a) Higher	(b) Low	(c) Stable	(d) None of a,b,&c
25. In co-ordinate covalent b	ond, the atom whi	ch donates electron pair	rs is called,
(a) Donor atom	(b) Acceptor a	tom (c) Monatom	ic (d) None of a, b, c
(a) Fluorine	(b) Chlorine	(c) Bromine	(d) Astatine
27. The electrons of	shell are involv	ved in the formation of	a chemical bond.
(a) Valence shell	(b) 1 st shell	(c) 2^{nd} shell	(d) 3^{rd} shell
28. The force which holds th(a) Electrostatic force	e two ions togethe (b)	r in an ionic compound Electric force	is
(c) Magnetic force	(d)	Polar Force	
29. A bond formed by sharir	g of 3 electron pai	rs is coval	ent bond.
(a) Single	(b) Double	(c) Triple	(d) None of a, b, c
30. Metals conduct electricit	y due to presence of	of	
(a) Free electrons	(b) Free ions	(c) Free protor	ns (d) Free neutrons
31. By loosing one outermos	t electron Na acqu	ires charge	e.
(a) A unit negative charg	e (b)	A unit positive charge	
(c) Two negative charges	(d)	two positive charges	
32. Helium is a gas			
(a) Noble	(b) Ionic	(c) Covalen	t (d)Coinage metals
33. Copper has bor	d		
· · · · · · · · · · · · · · · · · · ·			
(a) Metallic	(b) Polar coval	ent (c) Covalent	(d) Non-polar
(a) Metallic covalent	(b) Polar coval	ent (c) Covalent	(d) Non-polar
 (a) Metallic covalent 34. Chlorine has ele 	(b) Polar coval	ent (c) Covalent ce shell.	(d) Non-polar
 (a) Metallic covalent 34. Chlorine has ele (a) 7 	(b) Polar covale ectrons is its valend (b) 8	ent (c) Covalent ce shell. (c) 2	(d) Non-polar (d) 1
 (a) Metallic covalent 34. Chlorine has ele (a) 7 35. During bonding hydroge 	(b) Polar covale ectrons is its valend (b) 8 n atom can attain t	ent (c) Covalent ce shell. (c) 2 he electronic configurat	(d) Non-polar (d) 1 tion of atom.
 (a) Metallic covalent 34. Chlorine has ele (a) 7 35. During bonding hydroge (a) He 	(b) Polar covale ectrons is its valen (b) 8 n atom can attain t (b) Ne	ent (c) Covalent ce shell. (c) 2 he electronic configurat (c) Ar	(d) Non-polar (d) 1 tion of atom. (d) Rn
 (a) Metallic covalent 34. Chlorine has ele (a) 7 35. During bonding hydroge (a) He 36. When sodium reacts with (b) Charles (b) Charl	(b) Polar covale ectrons is its valend (b) 8 n atom can attain t (b) Ne n Chlorine	ent (c) Covalent ce shell. (c) 2 he electronic configurat (c) Ar bond is formed.	(d) Non-polar (d) 1 tion of atom. (d) Rn
 (a) Metallic covalent 34. Chlorine has ele (a) 7 35. During bonding hydroge (a) He 36. When sodium reacts with (a) Ionic (b) C 	(b) Polar covale ectrons is its valence (b) 8 n atom can attain t (b) Ne n Chlorine ovalent (c) Pola	ent (c) Covalent ce shell. (c) 2 he electronic configurat (c) Ar _ bond is formed. r covalent (d) Co	(d) Non-polar (d) 1 tion of atom. (d) Rn
 (a) Metallic covalent 34. Chlorine has ele (a) 7 35. During bonding hydroge (a) He 36. When sodium reacts with (a) Ionic (b) C 37. Ionic compounds are ger a. Insoluble 	(b) Polar covale ectrons is its valend (b) 8 n atom can attain t (b) Ne n Chlorine ovalent (c) Pola erally in b. Soluble of	ent (c) Covalent ce shell. (c) 2 he electronic configurat (c) Ar _ bond is formed. r covalent (d) Co water. c. Both a & b	(d) Non-polar (d) 1 tion of atom. (d) Rn o-ordinate Covalent d. Moderately Soluble
 (a) Metallic covalent 34. Chlorine has ele (a) 7 35. During bonding hydroge (a) He 36. When sodium reacts with (a) Ionic (b) C 37. Ionic compounds are ger a. Insoluble 38. The loosing or gaining or gainin	(b) Polar coval ectrons is its valen (b) 8 n atom can attain t (b) Ne n Chlorine ovalent (c) Pola erally in b. Soluble of f electron leads to	ent (c) Covalent (c) 2 (c) 2 he electronic configurat (c) Ar bond is formed. r covalent (d) Co water. both a & b bonding.	(d) Non-polar (d) 1 tion of atom. (d) Rn p-ordinate Covalent d. Moderately Soluble
 (a) Metallic covalent 34. Chlorine has ele (a) 7 35. During bonding hydroge (a) He 36. When sodium reacts with (a) Ionic (b) C 37. Ionic compounds are ger a. Insoluble 38. The loosing or gaining or (a)Ionic 	 (b) Polar covale (b) Polar covale (c) 8 (b) 8 (c) Ne (c) Pola (c) Pola	ent (c) Covalent (c) 2 (c) 2 he electronic configurat (c) Ar bond is formed. r covalent (d) Co water. bond a & b (c) Polar coval	(d) Non-polar (d) 1 tion ofatom. (d) Rn o-ordinate Covalent d. Moderately Soluble lent (d) co-ordinate
 (a) Metallic covalent 34. Chlorine has ele (a) 7 35. During bonding hydroge (a) He 36. When sodium reacts with (a) Ionic (b) C 37. Ionic compounds are ger a. Insoluble 38. The loosing or gaining of (a)Ionic Covalent 	(b) Polar covale ectrons is its valend (b) 8 n atom can attain t (b) Ne n Chlorine ovalent (c) Pola erally in b. Soluble of f electron leads to (b) Covalent	ent (c) Covalent (c) 2 (c) 2 (c) Ar (c) Ar bond is formed. (c) Ar covalent (d) Co water. (c) Both a & b (c) Polar coval	(d) Non-polar (d) 1 tion of atom. (d) Rn -ordinate Covalent d. Moderately Soluble lent (d) co-ordinate
 (a) Metallic covalent 34. Chlorine has ele (a) 7 35. During bonding hydroge (a) He 36. When sodium reacts with (a) Ionic (b) C 37. Ionic compounds are ger a. Insoluble 38. The loosing or gaining o (a)Ionic Covalent 39. Positive ions are also cal 	(b) Polar coval ectrons is its valen (b) 8 n atom can attain t (b) Ne n Chlorine ovalent (c) Pola erally in b. Soluble of f electron leads to (b) Covalent	ent (c) Covalent (c) 2 (c) 2 he electronic configurat (c) Ar bond is formed. r covalent (d) Co water. bond is & b (c) Polar coval	(d) Non-polar (d) 1 tion of atom. (d) Rn p-ordinate Covalent d. Moderately Soluble lent (d) co-ordinate
 (a) Metallic covalent 34. Chlorine has ele (a) 7 35. During bonding hydroge (a) He 36. When sodium reacts with (a) Ionic (b) C 37. Ionic compounds are ger a. Insoluble 38. The loosing or gaining of (a)Ionic Covalent 39. Positive ions are also cal a. Cations 	 (b) Polar covale (b) Polar covale (c) 8 n atom can attain t (b) Ne n Chlorine n Chlorine n Chlorine n Chlorine in in	ent (c) Covalent (c) 2 (c) 2 (c) Ar (c) Ar bond is formed. (c) Co water. (c) Both a & b (c) Polar coval (c) Cathode	(d) Non-polar (d) 1 tion ofatom. (d) Rn o-ordinate Covalent d. Moderately Soluble lent (d) co-ordinate d. Anode
 (a) Metallic covalent 34. Chlorine has ele (a) 7 35. During bonding hydroge (a) He 36. When sodium reacts with (a) Ionic (b) C 37. Ionic compounds are ger a. Insoluble 38. The loosing or gaining or (a)Ionic Covalent 39. Positive ions are also cal a. Cations 40. Negative ions are also cal a. Cations 	(b) Polar covale (b) Polar covale (c) 8 n atom can attain t (b) Ne n Chlorine ovalent (c) Pola erally in b. Soluble (c) f electron leads to (b) Covalent led b. Anions lled	ent (c) Covalent (c) 2 (c) 2 he electronic configurat (c) Ar bond is formed. r covalent (d) Co water. both a & b bonding. (c) Polar coval c. Cathode	(d) Non-polar (d) 1 tion of atom. (d) Rn -ordinate Covalent d. Moderately Soluble lent (d) co-ordinate d. Anode
 (a) Metallic covalent 34. Chlorine has ele (a) 7 35. During bonding hydroge (a) He 36. When sodium reacts with (a) Ionic (b) C 37. Ionic compounds are ger a. Insoluble 38. The loosing or gaining of (a)Ionic Covalent 39. Positive ions are also cal a. Cations 40. Negative ions are also cal a. Cations 	(b) Polar covale (b) Polar covale (c) 8 n atom can attain t (b) Ne n Chlorine tovalent (c) Pola erally in b. Soluble (c) f electron leads to (b) Covalent led b. Anions lled b. Anions	ent (c) Covalent (c) 2 (c) 2 he electronic configurat (c) Ar bond is formed. r covalent (d) Co water. bonding. (c) Polar coval c. Cathode c. Cathode	(d) Non-polar (d) 1 tion of atom. (d) Rn o-ordinate Covalent d. Moderately Soluble lent (d) co-ordinate d. Anode d. Anode
 (a) Metallic covalent 34. Chlorine has ela (a) 7 35. During bonding hydroge (a) He 36. When sodium reacts with (a) Ionic (b) C 37. Ionic compounds are ger a. Insoluble 38. The loosing or gaining o (a)Ionic Covalent 39. Positive ions are also cal a. Cations 40. Negative ions are also cal a. Cations 41. A molecule that has two 	(b) Polar covale (b) Polar covale (c) 8 n atom can attain t (b) Ne n Chlorine ovalent (c) Pola erally in b. Soluble (c) f electron leads to (b) Covalent led b. Anions lled b. Anions	ent (c) Covalent (c) 2 (c) 2 he electronic configurat (c) Ar bond is formed. r covalent (d) Co water. both a & b <u> bonding.</u> (c) Polar coval c. Cathode l ends or poles is called	(d) Non-polar (d) 1 tion of atom. (d) Rn o-ordinate Covalent d. Moderately Soluble lent (d) co-ordinate d. Anode d. Anode a
 (a) Metallic covalent 34. Chlorine has ele (a) 7 35. During bonding hydroge (a) He 36. When sodium reacts with (a) Ionic (b) C 37. Ionic compounds are ger a. Insoluble 38. The loosing or gaining or (a)Ionic Covalent 39. Positive ions are also cal a. Cations 40. Negative ions are also caa a. Cations 41. A molecule that has two a. Non polar 	(b) Polar covale (b) Polar covale ectrons is its valend (b) 8 n atom can attain t (b) Ne n Chlorine ovalent (c) Polat erally in b. Soluble of f electron leads to (b) Covalent led b. Anions lled b. Anions oppositely chargeo b. Polar	ent (c) Covalent (c) 2 (c) 2 he electronic configurat (c) Ar bond is formed. r covalent (d) Co water. both a & b (c) Polar coval c. Cathode I ends or poles is called c. Covalent f clustrencial	(d) Non-polar (d) 1 tion of atom. (d) Rn o-ordinate Covalent d. Moderately Soluble lent (d) co-ordinate d. Anode d. Anode a d Antipolar
 (a) Metallic covalent 34. Chlorine has ela (a) 7 35. During bonding hydroge (a) He 36. When sodium reacts with (a) Ionic (b) C 37. Ionic compounds are ger a. Insoluble 38. The loosing or gaining or (a)Ionic Covalent 39. Positive ions are also cal a. Cations 40. Negative ions are also cal a. Cations 41. A molecule that has two a. Non polar 42. The type of bond in whic called 	(b) Polar covale (b) Polar covale ectrons is its valend (b) 8 n atom can attain t (b) Ne n Chlorine ovalent (c) Polar erally in b. Soluble of f electron leads to (b) Covalent led b. Anions lled b. Anions oppositely charged b. Polar th the shared pair of	ent (c) Covalent (c) 2 (c) 2 (c) Ar bond is formed. (c) Ar bond is formed. (c) Ar (c) Ar (d) Co water. C. Both a & b (c) Polar coval (c) Polar coval (c) Cathode I ends or poles is called (c) Covalent (c) Covalent	(d) Non-polar (d) 1 tion of atom. (d) Rn o-ordinate Covalent d. Moderately Soluble lent (d) co-ordinate d. Anode d. Anode a d Antipolar by one atom only is
 (a) Metallic covalent 34. Chlorine has ela (a) 7 35. During bonding hydroge (a) He 36. When sodium reacts with (a) Ionic (b) C 37. Ionic compounds are ger a. Insoluble 38. The loosing or gaining of (a)Ionic Covalent 39. Positive ions are also cal a. Cations 40. Negative ions are also cal a. Cations 41. A molecule that has two a. Non polar 42. The type of bond in whice called a. Ionic 	 (b) Polar covale (b) Polar covale (c) Polar covale (b) 8 n atom can attain t (b) Ne n Chlorine (c) Pola ovalent (c) Pola derally in b. Soluble of f electron leads to (b) Covalent led b. Anions lled b. Anions oppositely charged b. Polar th the shared pair of b. Covalent 	ent (c) Covalent (c) 2 (c) 2 (c) Ar bond is formed. r covalent (d) Co water. Both a & b (c) Polar coval (c) Polar coval c. Cathode l ends or poles is called c. Covalent f electrons is donated b c.Polar covale	(d) Non-polar (d) 1 tion ofatom. (d) Rn o-ordinate Covalent d. Moderately Soluble lent (d) co-ordinate d. Anode d. Anode d. Anode adAntipolar by one atom only is nt d. co-ordinate

43. When an atom	loses or gains the el	ectrons then it becomes	
a. Cations	b. An	ions c. Catl	d. Anode
44. During the form	mation of chemical l	oond elements tends to att	ain configuration.
a. Noble gases	ont is true about abor	nides C. Alkaline eard	i metais d. comage metais
45. Which stateme	nds are not soluble i	n water b) covalent com	pounds dissolve easily in polar
solvents	nus are not soluble i		pounds dissolve easily in polar
c)like_dissolve	s like	d) Ionic	compounds dissolve easily in non
polar solvents	S IIKC	u) Ionic	compounds dissorve easily in non
46 According to	rulo hydr	ogon complete its outerm	ost shall
(a) Octet	(b) duplet	(c) new land octave	(d) both a&c
47 The adhesives	action of paints and	dves is devoned due to	(d) both deed
(a) Hydrogen be	onding (b) d	ipole dipole attraction	(c) vander waal forces
(d) both a&c	(-) -	-rr	
48. Flourine has a	n electronic configur	ation 2. 7 and oxygen 2. 6	5 the formula of fluorine oxide will
be.			
(a) FO	(b) F_2O (c)	$FO_2 \qquad (d) F_2O_2$	
49. Which one of	of the following ions	s do not have the electroni	c configuration of an argon atom?
(a) Ca^{+2} (b) S	-2 (c) K ⁺ (d) O ⁻²		
50. The intermol	ecular forces are of	three types and collective	ly calledforces
(a) Van Der wa	ll (b) dipole dipole	(c) adhesives (d) cohesives
CHAPTER NO):5 PHYSICAI	L STATES OF MA	TTER
1. Water has maxim	um density at	°C.	
(a) 0 °	(b) 4 °	(c) 100 °	(d) -273 °
2. Water at	has less energy th	an steam at the same tem	perature.
(a) 100 °C	(b) 99.9 °C	(c) 90 °C	(d) 0 °C
3. The conversion of	f liquid into vapor is	s called	
(a) Condensation	(b) Evaporation	(c) Sublimation	(d) Crystallization
4. The temperature	at which a solid is iu	ist converted into its liqui	1 state is
called			
(a) Freezing point	(b) Melting point	(c) Transition temper	ature (d) Absolute temperature
5 The melting point	t of a substance is al	ways equal to its	
(a) Freezing point	(b) Boiling point	(c) Critical temperatu	 re(d) Absolute temperature
6 The substances w	hich have same crys	talline forms are called	
(a) Polymorphs	(b) Isomorphs	(c) Allotropic	 (d) Isomorphism
7 Graphite and diar	nond are the	forms of carbon	(a) Isomorphism
(a) Polymorphous	(b) Isomorphous	(c) Allotropic	(d) Isomorphism
8 A temperature at	which two physical	forms of a substance co-e	xist is called its
(a) Boiling point	(b) Melting point	(c) Freezing point	(d) Transition temperature
9 If an element is fo	ound in more than or	ne physical form the pror	erty is called
(a) Allotropy (b) Isomorphism	(c) Symmetry	(d) Polymorphism
10 Diamond crysta	ls are conc	luctors of heat	(d) i orymorphism
(a) Very good	b) Bad	(c) Good	(d) Not
11. The melting poi	nt of water is	(0) 0004	(4) 1100
(a) $0 ^{\circ}\mathrm{C}$	(b) -273 K	(c) 100 °C	(d) 4°C
12 Properties of ga	ses can be described	by mentioning temperatu	re pressure and
(a) Density	(h) Volume	(c) Rigidity	(d) Mobility
(a) Density	o, vorunie	(c) many	(a) mooning

13. Which gas diffuses faster? (a) Helium (b) Nitrogen (c) Oxygen (d) Hydrogen 14. Which one is used as semiconductor? (b) Bucky ball (d) Rhombic (a) Graphite (c) Diamond 15. Bucky ball is third allotropic form of carbon, discovered in _____ (a) 1995 (b) 1998 (c) 1990 (d) 1966 16.In graphite carbon atoms are arranged ______ in the form of sheets. (a) Tetrahedrally (b) Pentagonally (c) Hexagonally (d) Heptagonally. 17. Sulphur exists in _____allotropic forms. (a) 2 (b) 3 (c) 4 (d) 5 18. Monoclinic is a allotropic form of ____ (a) Carbon (b) Sulphur (c) Calcium (d) Phosphorus 19. The allotropic forms of sulphur exist at the temperature of _____ (a) 95.5 °C (b) 99.9 °C (c) 90 °C (d) 94.5 °C 20. Which one posses the property of rigidity? (b) Gas (d) Plasma (a) Liquid (c) Solid 21. A mathematically relationship of Charle's law is (a) V = K(b) VT=K (c) 1 = T(d) V = KTK V Т 22. A mathematical relationship of Boyl's law is (c) PK = V(b) 1 = VK(d) 1 = P(a) PV=K Ρ KV 23. Which one has low density? (a) Solid (c) Gas (d) Plasma (b) Liquid 24. 1 atom is equal to _____. (a) 760mm of Hg (b) 766mm of Hg (c) 777 mm of Hg (d) 788mm of Hg 25. Which one show greater rate of evaporation. (d) Water (a) Phenol (b) Acetone (c) Alcohol 26. The particles of a crystalline solid are arranged in a regular ______dimension. (b) One (c) Three (d) Four (a)Two 27. Very low temperature can be produced by the ______of gases. (a) Expansion (b) Compression (c) Contraction (d) None 28. A heavier gas possesses ______energy at the same temperature as lighter gas (c) Same (d) None (a) More (b) Less 29. By standard temperature, we mean _____ (d) 24 °C (a) 0 °C (b) 0 °K (c) 273°K 30. By standard pressure, we mean _____ of Hg. (a) 700mm (c) 100cm (d) 77cm (b) 76cm 31. Water can exist in ______ physical states at a certain condition of temperature and pressure. (a) 1 (b) 2 (c) 3 (d) 4 32. All gases solidify at _____°C (b) -273 (c)-200 (d) 0(a) 100 33. The increase in temperature of the gases decreases the (b) Volume (c) Forces of attraction (a) Pressure (d) Kinetic energy 34. Which is the pressure of a gas, if the volume of the gas at 2atm is increased from 1.5 dm³ to 3dm³? (b) 1.5atm (c) 2atm (d) 2.5atm (a) 1atm 35. Ink spreads in water because of _____ (a) Vapor pressure (b) Compressibility (c) Diffusion (d) Dipole moment

36. The vapor pressure of a liquid in a closed container depends upon _____ (a) Amount of the liquid (b) Surface area of the liquid (c) Temperature (d) Volume of the liquid. 37. At higher altitude water boils_ (c) Higher than 100° C (d) lower than 100° C (a) At any temperature (b) At 100° C 38. Evaporation takes place (a) At all temperature (b) Only at low temperature (c) When quantity of the liquid is more (d) When quantity of the liquid is less 39. Water always boils when _ (a) Its temperature is 150 °C (b) Atmospheric pressure is increased (c) Its vapor pressure becomes equal to the atmospheric pressure (d) Its vapor pressure reaches zero 40. The boiling point of a liquid increases if (a) The amount of liquid decreases (b) The dimension of the container increases (c) The forces of attraction increase (d) More heat is provided 41. Glass is solid which is (a) Crystalline (d) None (b) Amorphous (c) Allotrope 42. The crystalline forms of carbon exist in _ (a) Rhombic, monoclinc (b) Cubic, tetragonal (c) Cubic, hexagonal (d) Rhombic, cubic 43. Density of liquid oxygen at -103° is: (a) 1.149g/cm^3 (b) 1.159g/cm^3 (c) 1.169g/cm^3 (d) $1.249g/cm^3$ 44. Boiling point of chloroform is: (a) 165°C (b) 61.2°C (c) 69.2° C (d) 71.2°C 45. The primary ingredient of preserving meat is: (c) Sodium Iodide (d) Calcium Chloride (a) Sodium Chloride (b) Sodium Bromide 46. What will be the final pressure of a sample of gas that is changed at constant temperature to 14.3dm³ from 7.55dm³ at 828torr? (a) 473.160 torr (b) 673.160 torr (c) 347.150 torr (d) 400.140 torr 47. The final volume at 302 K of a 5.41 dm³ sample of gas originally at 353 K if the pressure does not change is: (a) 7.324dm³ (b) 6.323 dm³ (c) 7.324 dm³ (d) 7.324 dm³ 48. Volume occupied by 0.5 mole of carbon dioxide at a pressure of 150kPa and at temperature of 19 °C will be: (a) 8.09 dm^3 (b) 8.89 dm^3 (c) 9.09 dm^3 (d) 8.13 dm^3 49. In order to increase the volume of a gas by 10%, the pressure of the gas should be: (a) Increased by 10% (b) Increased by 1% (c) Decreased by 10% (d) Decreased by 1% 50. Intermolecular attractive forces include which of the following? (b) Vander Waals forces (c) Bose-Einstein attraction (d) solids (a) Hydrogen ions 51. Which of the following is NOT a way that matter changes phase? (a) Melting (b) Freezing (c) Evaporation (d) Mixing 52. Force of attraction and repulsion in gaseous molecule is: (b) Absent (c) Slight (a) Present (d) Huge 53. Vapor pressure is directly proportional to temperature because of: (a) More kinetic energy (b) Faster particle movement (c) More potential energy (d) both A & B

CHAPTER: NO.6 SOLUTIONS

1. A molar solution contains one mole of a sol	ute dissolved in	
(a) 1 liter (b) 100g	(c) 1 kg	(d) $100 dm^3$
2. The solubility usually with increase	sing temperature.	
(a) Increases (b) Decreases	(c) Same	(d) Slightly increases
3. Completely miscible pair is		
(a)Water & alcohol (b) Water & sugar	(c) Water & salt	(d) Water & fat
4. Partially miscible pair is		
(a) Phenol & water (b) Water & benzene	(c) Water & alcohol	(d) Benzene & phenol
5. Completely immiscible pair is		
(a) Water & alcohol (b) Phenol & water	(c) Water & benzene	(d) Phenol & alcohol
6. The solution which contains excess of solut	e as compared to the sol	vent is called
(a) Dilute solution (b) Aqueous solution	(c) Concentrated solu	ution
(d) Standard solution		
7. The solution which contains less solute as c	ompared to the solvent i	s called
(a) Dilute solution (b) Aqueous solution	(c) Concentrated solu	ution
(d) Standard solution		
8. Solubility is the amount of solute in grams of	lissolved in	grams of solvent.
(a) 100g (b) 10g	(c) 1g	(d) 1000g
9. The example of colloid is		
(a) Starch in water (b) Alcohol in water	(c) Salt in water	(d) Sugar in water
10is a universal solvent.		
(a) Kerosene oil (b) Phenol	(c) Benzene	(d) Water
11. A heterogeneous mixture of different subst	ances is called	
(a) Suspension (b) Colloids	(c) Solution	(d) None
12. Dissolution of sodium chloride in water is	called	
(a) Suspension (b) Solution	(c) Colloid	(d) None
13. Sugar dissolves in water due to		
(a) Hydrogen bonding (b) Ionic bonding	(c) Metallic bonding	(d) OH group
14. Which one easily dissolves in water?		
(a) Alcohol (b) Salt	(c) Sugar	(d) Benzene
15. Which one shows low solubility in water_	·	
(a) Sodium chloride (b) Sugar	(c) Alcohol	(d) Benzene
16are more soluble in cold solven	ts than in hot solvents.	
(a) Solids (b) Liquids	(c) Gases	(d) Plasma.
17. In reaction the solubility increase	es with increasing tempe	erature.
(a) Exothermic reaction (b) Endothermic	reaction (c) Conde	nsation reaction
(d) All of these		
18. In reaction the solubility dec	reases with increasing te	emperature.
(a) Exothermic reaction (b) Endothermic	reaction (c) Conde	nsation reaction
(d) All of these		
19. Dental amalgam is an example of		
(a) Liquid in solid (b) Liquid in liquid	(c) Solid in liquid	(d) Gas in liquid
20. Which one is a dilute solution?		
(a) 5g of sugar in 100ml (b) 6g of sugar in	100ml (c) 3g of sugar in	100ml
(d) 2g of sugar in 100ml		
21. The solution which has less amount of solu	ite is called	

(a) Saturated solution (b) Unsaturated solution (c) Super saturated solution (d) Aqueous solution 22. Which solution has the capacity to dissolve more solute? (a) Saturated solution (b) Unsaturated solution (c) Super saturated solution (d) Aqueous solution 23. The solution which can't dissolve more solute at a given temperature is called (a) Saturated solution (b) Super saturated solution (c) Unsaturated solution (d) Aqueous solution 24. A solution in which water is used as a solvent is called _____ (a) Aqueous solution (b) Saturated solution (c) Standard solution (d) Unsaturated solution 25. Binary solution means it consists of _____ components. (a) 2 (b) 3 (c) 4 (d) 6 26. Solution whose concentration is known is called as _____ (b) Saturated solution (c) Standard solution (d) Non aqueous solution (a)Aqueous solution 27. Keeping in mind that all the given substances are organic, which one is soluble in water? (a) Kerosene oil (b) Carbon tetrachloride (c) Methyl alcohol (d) Benzene 28. Water in air is an example of solution of (a) Gas in gas (b) Gas in liquid (c) Liquid in gas (d) Liquid in liquid. 29. Weight of solute present in 100g of solution is called_ (c) Percentage V/V (d) Percentage W/V(a) Percentage V/W (b) Percentage W/W 30. A mixture in which solute particles dissolve in solvent is called _____ (a) Heterogeneous mixture (b) Solution (c) Colloidal solution (d) Suspension 31. The boiling point of a solution as compared to the solvent is _____ (d) Variable (a) Higher (b) Lower (c) Remains same 32. The particles of solute in colloids are _____ (a) Visible (b) Invisible (c) In size like suspension solute (d) In size like solution solute 33. 2 moles of Na₂SO₄ are dissolved in one dm³ of solution. Molarity of the solution is: (a) 1 (b) 2(d) 4 (c) 3 34. The molecules of ice have? (a) An ionic bond between them (b) A covalent bond between them (c) A co-ordinate covalent bond between them (d) Hydrogen bonding between them 35. The Tyndall effect is a property that can be used to distinguish between a solution and (a) A Suspension (b) A colloid (c) A standard solution (d) A dilute solution 36. 1 dm^3 is equal to: (b) 1000 cm^3 (a) 1 liter (c) 1000ml (d) All of these 37. Which of the following factors affect solubility? (a) Nature of Solute and solvent (b) Pressure (c) Temperature (d) All of these 38. The solubility of NaCl _ by increasing temperature: (a) Increases (b) Decreases (c) Is not affected (d) Drastically increases 39. The solubility of CaO _____ by increasing temperature: (b) Decreases (a) Increases (c) Is not affected (d) Increases up to certain limit 40. By the increase in pressure solubility of gases _____: (a) Increases (b) Decreases (c) Remains the same (d) First increases then decreases 41. The process of settling down of particles at the bottom is known as : (a) Filtration (b) Separation (c) Sedimentation (d) Suspension

42. Mayonnaise is the example of:					
(a) Foam	(b) Solid aerosol	(c) Liquid aerosol	(d) Liquid emulsion		
43. Cheese is the example of:					
(a) Solid emulsion	(b) Sol	(c) Liquid emulsion	(d) Gel		
44, Water droplet in air is a	n example of solution	1:			
(a) Gas in gas	(b) Gas in liquid	(c) Liquid in gas	(d) Liquid in liquid		
45. Which of the following	can be separated by f	iltration?			
(a) Solution	(b) Colloid	(c) Suspension	(d) All of these		
46. The number of moles of	f solute dissolved per	dm ³ of solution is call	led:		
(a) Molarity	(b) Molality	(c) Concentration	(d) Percentage composition		
47. Ionic solutes dissolve w	ell in:				
(a) Polar solvents	(b) Non polar solver	nts (c) Both	(d) None		
48. Flour in water is an exa	mple of:				
(a) Solution	(b) Suspension	(c) Colloid	(d) Mixture		
49. Changing pressure does not affect the solubility of:					
(a) Solids	(b) Liquids	(c) Gases	(d) Both (a) and (b)		
50. Which of the following is not a pure substance?					
(a) salt	(b) oxygen gas	(c) air	(d) gold		

QUESTIONS:

1. Show ionic bond formation with the help of equation and diagram in NaH, $MgCl_2$ and CaO

- 2. Predict bond type in CO_2 , N_2 , C_2H_4 , C_2H_2 , H_20
- 3. Draw Lewis structure of CCl₄, NH₃, CH₄ and HCl
- 4. Calculate number of moles in 2 g of carbon dioxide and number of particles in 6 mole of oxygen.

5.State Boyles law. Prove it experimentally

8. COMPUTER

1. Which computer is a combination of digital and analog technologies?

- a) hybrid b) super c) mini d) mainframe
- 2. Which of the following is an output device for providing hard copy of output?
- a) scanner b) printer c) speaker d) microphone
- 3. In Windows, which folder keeps files that have been deleted, whether accidentally or intentionally?
 - a) my computer b) my document c) recycle bin d) my files
- 4. Which program protects computer from many common viruses and Trojans which can be harmful for the system?
 - a) internet explorer b) excel c) word d) antivirus
- 5. The basic unit for entering data in Excel is:
- a) cell b) row c) column d) formula
- 6. In Word document which option is used to move text from one place(source) to another place (destination)?
 - a) cut-print b) copy-print c) copy-paste d) cut-paste
- 7. The rows in Excel are denoted by:
 - a) letters b) numbers c) words d) signs

8. In which type of transmission, data is transmitted block-by-block or word)by-word simultaneously: a) parallel b) serial c) asynchronous d) synchronous 9. Which of the following is an example of an unguided Transmission media? a) satellite b) microwave c) coaxial cable d) both a and b 10. In which transmission, data flow only in one direction from the sending device to the receiving side: a) simplex b) duplex c) half duplex d) full duplex 11. What is gaining an unauthorized access to computers or telecommunications systems is called? a) hacking b) cracking c) lacking d) tracking 12. The term computer derived from Latin word 'computare', which means a) input data b) to calculate c) efficient d) none of these 13. The first mechanical computer was developed by the Charles Babbage in a) 1922 b) 1822 c) 1722 d) 1622 14. For voice recording we use? a) microphone b) monitor c) speaker d) scanner 15. Monitor resolution is often expressed in . a) A) dpi B) bpi C) bips D) mips 16. Who is said to be the father of computers? a) Blaise Pascal Charles Babbage C) John Napier D) Mark operation. 17. The process of manipulating of data in useful form is b) output c) processing d) storing a) input 18. Which of the following is an updated form of UNIX operating system? a) windows b) linux c) dos d) netware 19. Which program protects computer from many common viruses and Trojans which can be harmful for the system? a) internet explorer b) excel c) word d) antivirus 20. A is one in which user types in commands to make the computer do something. a) cli b) mdi c) gui d) unix 21. keeps the files that have been deleted. a) computer b) recycle bin c) control panel d) network 22. Robotics is an example of OS. b) batch operating system c) time sharing system d) real time processing a) dos system 23. Which interface consist of a series of screens to navigate by choosing options from lists, i.e. menu? a) command driven b) gui c) menu driven d) list driven 24. Which of the following operating system allows a user to work in a single program at any given time? a) single user b) multiuser c) multitasking d) real time 25. The basic unit for entering data in Excel is: b) row c) column d) formula a) cell 26. The rows in Excel are denoted by:

- a) letters b) numbers c) words d) signs
- 27. Whish layout gives the view of the document as it appears in a web browser?
- a) print b) page c) web d) outline
- 28. In word document which option is used to move text from one place (source) to another (destination)?
- a) cut-print b) copy-print c) copy- paste d) cut-paste
- 29. Which of the following break option is used to move text to a new page before reaching the end of page?
- a) page break b) section break c) line break d) column break
- 30. Which of the following are the blank spaces around the edges of the page?
- a) header b) footer c) page margins d) alignment
- 31. _____ are the graphic presentations of data from a worksheet.
- a) range b) charts c) functions d) formulas
- 32. What is a device used in a communication system to send or transmit data to another device called?
 - a) Receiver, b) sender, c) medium, d) channel
- 33. In which type transmission, data is transmitted block-by-block or word)by-word simultaneously?
- a) parallel b) serial, c) asynchronous, d) synchronous
- 34. Which of the following is an example of guided transmission media?
 - a) satellite, b) microwave, c) coaxial cable, d) infrared
- 35. Which technology allows computing devices to communicate via short-range wireless signals?
- a) satellite b) microwave c) cellular radio d) infrared
- 36. In which of the following transmission impairment the signal changes its shape and form?a) attenuation, b) distortion, c) noise, d) cross talk
- 37. Which communication device is used in networking environment to connect computers to the same network?
 - a) switch, b) hub, c) router, d) mode
- 38. What are raw facts and figures given to the computer as input for processing called?a) Information, b) data, c) network, d) output
- 39. What is the physical layout of joining a number of computers in the form of a network called?
 - a) layout b) connection c) network d) topology
- 40. Which communication technique allows several users to share a band of frequencies?a) Dial-upb) DSLc) ISDNd) CDMA
- 41. What is a collection of computers and devices interconnected by communications channels called?
 - a) channel b) communication c) network d) topology
- 42. In which transmission data flow only in one direction from the sending device to the receiving device
 - a) simplex b) duplex c) half duplex d) full duplex
- 43. In which network topology all nodes are connected to a common communication medium or central cable?
 - a) bus b) ring c) star d) mesh

44. In which network architecture there is one dedicated computer which is called server?
a) dedicated b) point to point c) peer to peer d) client/server
45. A computer network allows sharing of
a) hardware resources b) programs c) data files d) all of them
46. Which of the following should not be written down or shared with others?
a) password b) user id c) program d) data
47. Which of the following has concern with the correct handling of personal information?
a) Accuracy B) Privacy C) Authority D) Authentication
48. Which of the following refers to any crime that involves a computer and a network?
a) robbery b) theft c) cyber-crime d) shop lifting
49. 52. Which of the following is the exclusive legal right that prohibits copying of
intellectual property?
a) legal right b) copyright c) book right d) all right
50. The people who do cracking are called
a) hackers b) programmers c) crackers d) browsers
51. is advertising-supported software, which gets the online ads to play
automatically.
a) adware b) spyware c) malware d) worms
52. Where the Microsoft office button is located in Word Window?
a) ton right b) bottom right c) ton left d) bottom left
53 What is a piece of text or an image in a document that can connect readers to another
portion of the document or web page called?
a) margin b) hyperlink c) file d) web page
54 Which program is used to view internet sites or pages?
a) internet explorer (b) web viewer c) word (d) excel
55 What is gaining an unsutherized access to computers or talecommunications systems
solution and an unaumorized access to computers or terecommunications systems
cancu:
a) nacking b) cracking c) lacking d) tracking

QUESTIONS:

- i. Define term topology, explain different types of topologies.
- ii. Differentiate between client's server and peer to peer network.
- iii. List the characteristics of 5 generations.
- iv. Explain different types of transmission impairment.
- v. Differentiate between guided and unguided media with examples.
- vi. Synchronous Vs Asynchronous transmission.
- vii. Define operating system and its objectives.
- viii. Create a Time Table for a class in MS Word.
- ix. How would you Copy/ cut files from one location to another?

9. MATH

CHAPTER #1 MATRICES

1) The matrix $\begin{bmatrix} 0 & 0 \\ 0 & 0 \end{bmatrix}$ is _____

	a) $\begin{bmatrix} 1 & -7 \\ 2 & -5 \end{bmatrix}$	b) $\begin{bmatrix} 1 & 7 \\ -2 & 1 \end{bmatrix}$	$c)\begin{bmatrix} -5 & 2\\ -7 & 1 \end{bmatrix}$	d) $\begin{bmatrix} -5 & 1 \\ -7 & 2 \end{bmatrix}$
12) If	$\mathbf{A} = \begin{bmatrix} a & b \\ c & d \end{bmatrix}, \text{ then } A $	=		
CHAP	a) ac)bd PTER # 2 REAL ANI 2 ⁰ –	b) bc)ad D COMPLEX NUMB	c) ad) bc BERS	d) ab)cd
1)	a) 2	b) 1	c) $\frac{1}{2}$	d) -2
2)	√ <u>81</u> =	_		
2)	a) 8 The quotient of two	b) 9	c) -9	d) 8.5
3) 4)	a) Real 2(3+4) = 2.3+2.4.The	b) Imaginary	c) Real and imagina	ry d) None of these
.,	a) Commutative	b) Associative	c) Distributive	d) Closure
5)	$\sqrt{-1} \times \sqrt{-1} =$			
6)	a) 1 $2^0 = $	b) -1	c) <i>i</i>	d) 0
	b) 2	b) 1	c) $\frac{1}{2}$	d) -2
7)	√ <u>81</u> =	_		
	a) 8	b) 9	c) -9	d) 8.5
8)	If $x \in Q$, then $x+y = y$ a) Closure property c) Commutative prop a(b)a) = -	+x is called	b) Associative prop d) Associative prop	perty w.r.t '×' perty w.r.t '×'
)	a) ab)c	b) ab)ac	c) ac)ab	d) b)ac
10)) The additive inverse of	of $\frac{-4}{5}$ is		
	a) $\frac{-5}{4}$	b) $\frac{4}{5}$	c) $\frac{5}{4}$ d) N	one of these
11)) In x.1 = 1.x , then '1' a)Additive identity c) Multiplicative inve	is called b) Additive inverse erse d) Multiplica	ntive identity	
12)) 3 and $\frac{1}{2}$ are	of each other.		
	a) Additive inverse c) Multiplicative inve	b) Additive identity erse d) Multiplic	cative identity	
CHAF	PTER#4 ALGEBRAI	C EXPRESSIONS A	ND FORMULAS	
1.	The expression 2x ² - a) Rational algebraic of these	+x is a expression (b) Binor	mial c) Zero poly	nomial (d) None
2.	Expression of the fo	orm $\frac{P(x)}{Q(x)}$ (Q(x) \neq 1,0	$Q(x) \neq 0$ is a	
	a) Binomial expression	on b) Rational n	umber c) Algebraic	expression

d) None of these 3. P(x) = 1 is a____ a) Polynomial of degree 1 b) Polynomial of zero degree c) Binomial d) Trinomial The rational expression $\frac{x-3}{2x+5}$ is _____ 4. a) in the lowest term b) not in the lowest term c) has x as a common factor d) None of these $(a+b)^2+(a)b)^2=$ _____ 5. a) 4ab 6. a) 4ab $(a+b+c)^2 =$ _____ 7. b) $a^2 + b^2 + c^2 + 2(a+b+c)$ a) $a^2 + b^2 + c^2$ c) $a^{2} + b^{2} + c^{2} + 2(ab+bc+ca)$ d) None of these $(a+b)^3 =$ _____ b) $a^3 - 3ab(a+b) + b^3$ 8. a) $a^3 + 3(a+b) + b^3$ c) $a^{3} + 3ab(a+b) + b^{3}$ d) None of these $(a-b)^2 =$ _____ 9. a) $a^2 - 2ab + b^2$ b) $a^2 - ab + b^2$ c) $a^2 - b^2$ d) None of these (a+b)²-(a)b)²=_____ 10. a) 4ab $a^2-b^2=$ _____ b) $2(a^2+b^2)$ c) $a^2-4ab+b^2$ d) None of these 11. a) $(a-b)^2 + 2ab$ b) (a+b)(a)b) c) (a)b)(a)b) d) $a^2 - 2ab + b^2$ a) $(a^{-}b) =$ 12. $(a^{3} + b^{3}) =$ $(a^{-1})^{3} - 2cb(a+b)$ b) $(a+b)(a^2+ab+b^2)$ c) (a)b) $(a^2 - ab + b^2)$ d) (a+b) ($a^2 - ab + b^2$) **CHAPTER#7 LINEAR EQUATIONS** 1) The solution set of linear equation in one variable has a) One element b) Two elements c) No element d) Infinite number of elements 2) |a+b|_____. a) = |a|+|b| b) $\leq |a|+|b|$ c) >|a|+|b| d) $\geq |a|+|b|$ a) x>5 c) x > 5 or x = 5 d) x < 5 or x = 5b) x=5 4) The solution set of $\sqrt{x} = -10$ is_____. c) {-10} a) {100} b) {10} d) { } 5) $\sqrt{x+3} + 2 = 11$ is a _____ a) Linear equation b) Radical equation c) Cubic equation d) Quadratic equation 6) The solution set of 5-3x = -4 is_____ a) $\{-3\}$ b) $\{1, 3\}$ c) $\{3\}$ d) {9} 7) The solution set of $\sqrt{5x+3}+2 = 4$ is _____

a) $\left\{\frac{1}{5}\right\}$	b) $\left\{-\frac{1}{5}\right\}$ c) $\{2\}$	d) {1}	
8) What is the meaning	g of the compound sente	ence $-3 < x < 3$?	
a) x > 3	b) x > - 3	c) x < - 3	d) $-3 < x$ and $x < 3$
CHAPTER # 9 INTR	ODUCTION TO COO	RDINATE GEOMETRY	Y
1) The in-centre is (equidistant from	of triangle.	d) Two opelas
a) One side 2) In a right angled	D) I WO SIDES	c) Three sides	d) Two angles
2) in a right angled a) 180°	b) 270°	;	d) 360°
2) The mid point of	$\frac{1}{2}$	$(2, 0)$ and $\mathbf{P}(2, 4)$ is	a) 500
a) (3, 3)	b) (3, 2)	c) (6, 4)	d) (6, 2)
4) $\left(\frac{x_1 + x_2}{2}, \frac{y_1 + y_2}{2}\right)$	$\left(\frac{y_2}{y_2}\right)$ is called		
a) Mid point for formula	mula b) Distance form	nula c) Ratio form	nula d) Division
5) Two perpendicul	ar segments meet in a	angle.	
a) 45°	b) 60°	c)180°	d) 90°
6) If P1 (2, 0) and F	$P_2(0, 2)$ are any two poir	Its in a plane, then $ P_1P_2 $	=
a) 4	b) $\sqrt{2}$	c) $2\sqrt{2}$	d) 0
7) If all the three sid	es of a triangle are diffe	rent in lengths, it is	
called	_triangle		
a) Equilateral 8) A triangle in wh	b) Isosceles c) ich all the three sides an	d three angles are equal is	ight- angled
triangle.	ien an the three sides an	a three angles are equal is	caned
a) Equilateral	b) Isosceles	c) Scalene	d) Right- angled
9) The point throug	sh which all the medians	of the sides of a triangle	pass is
called		\ T	
a) In-circle	b) Centroid	c) In centre	d)None of these
a) One line	b) Four lines	c) Two lines	d) Three
lines	b) I our mies		d) Thee
CHAPTER # 10 CON	GRUENT TRIANGLE	ES	
1) Which of the follo	wing is not a sufficient c	condition for the congruen	cy of
two triangles?			
a) A.S.A \cong A.S AAA.	$A \qquad b) H.S \cong H.S$	c) S.A.A≅S.A.A	d) A.A .A≅
2) Diagonal of	does not divide it int	to two congruent triangles	d) Tuon onimu
a) Rectangle	b) Square	c) Parallelogram	d) Trapezium
3). In \triangle ABC, if $\angle A$	$\cong \angle B$, then bisector of _	divides the ΔA	BC into two
congruent triangles.	b) / D		d) any one of its
a)∠A angles	\cup $) \angle \mathbf{D}$	$C) \ge C$	u) any one of its
4).In an equilateral tria	ingle ABC, the bisector	of divides the	triangle into two
congruent triangle	s.		
a) $\angle A$	b) ∠B	c) $\angle C$ d) any	y of its angles

5) In	a right-angled isoscele	es triangle, measure of	f each angle on the	base is	
	a) 90° b) 60°	c) 30°	d) 45°	
CHA	PTER #11 PARALL	ELOGRAMS AND '	TRIANGLES		
1)	If the diagonals of a q	uadrilateral divide the	e figure into two for	ur congruent t	riangles,
	then the quadrilateral	is a			
	a) Trapezium	b) Parallelogram	c) Rectangle	d) Square	
2)	If the diagonals of a q	uadrilateral are the pe	rpendicular bisecto	ors of each oth	er but the
	diagonals are not cong	gruent to each other th	ien, the quadrilatera	al is a	1\
T	a) Rectangle	b) Kite	c) Squa	are	d)
Trape	Discourse for a second		4 1 41		
3)	Diagonals of a square	e are	to each other.	4) Pa	th 'a' and
·c'	a) Perpendicular	b) Not Congruent	c) Congruent	d) BC	otn a and
4)	Sum of measures of ir	nterior angles of a qua	drilateral is		
т)	a) 2 right angles	h) 4 right angles	c) 3 right angles	s d) Nor	
5)	Massura of a line som	b) + fight angles	wints of \overline{AP} and \overline{AP}	$\frac{1}{\sqrt{C}}$ of $AABC$	T = 2.5 cm
5)		nent johning he nhà p	onits of AD and A		- 18 <i>5.5</i> 0111,
	then m BC				
	a) 4.5cm	b) 5.5cm	c) 6cm		d) 7cm
6)	Two medians \overline{AD} and	\overline{BE} of \triangle ABC inters	ect each other a G.	If m $\overline{GD} = 1.7$	cm, then m
	$\overline{AG} =$				
	a) 2.7cm	b) 0.85cm	c) 3.4cm	n	d) 5.1cm
7)	If sum of measures of	$\angle A$ and $\angle C$ of a pa	rallelogram ABCD) is 130° . then	m / B
• • •	=			15 10 0 , 0101	
	a) 25°	b) 50°	c) 65°	d) None of th	nese
	,	-)	-)	.,	
8)	If two opposite angles	of quadrilateral are e	qual in measure an	d none of the	n is a right
	angle, then the quadri	lateral is a			
	a) Square	b) Parallelogram	c) Trapezium	d) Rec	tangle
9)	of a parall	elogram are congruen	nt.		
1.0	a) Adjacent sides	b) Opposite sides	c) All sides	d) All	angles
10)	Medians of a triangle	are divided at their p	oint of concurrency	in the ratio	
	a) 1, 2	h) 2, 1	a) $1:2$	d) 2 ·	1
СНА	a) 1. \angle DTED # 17 I INF RI	U) 2. 1 SECTORS AND AN	C(T) = T = T = T = T = T = T = T = T = T =	u) 5. S	1
(IIA 1)	Which of the followi	ng are concurrent?	GLE DISECTOR		
1)	a) Risectors of the a	angles of a triangle	b) Perpendicula	r bisectors of	the sides of
a t	riangle c) M	edians of a triangle	o) i cipendiculu	d) All of the a	above
2)	Perpendicular bisecto	ors of a triangle are			
/	a) Congruent	b) Concurrent	c) Parallel to	each other	d) None
of the	ese	,	,		,
3)	Perpendicular bisecto	or of the base of a trian	ngle passes through	n its vertex an	gle. The
,	triangle is a/an		- 0		
	a) Right angled triar	ngle	b) Scale	ne triangle	
	c) Isosceles triangl	e	d) Acute	e angled triang	gle
4)	In an equilateral tria	ngle, all the perpendic	cular bisectors are_		_
	a) Congruent		b) Conc	urrent	
	c) The angle bisecto	r as well	d) all the	e above are tr	ue

5)	Point of intersection	of the angle bisectors	of a triangle is equidi	stant fromof
	the triangle		1 \ .1 .1 .1	
	a) the vertices	• •	b) the sides	,
	c) mid points of the	SIDES	d) all of the	above
CHA	PIEK # 15 SIDES A	ND ANGLES OF TE		
1)	An exterior angle of a	a triangle measures 10	0° . If measure of one c	of its non-adjacent
	interior angles is 30°,	the measure of the sec	cond angle is	
	a) 30°	b) 70°	c) 50°	d) 130°
2)	Exterior angle of a tri	angle and its adjacent	interior angles are	
	a) Complementary measure	b) Supplementary	c) Congruent	d) Not equal in
3)	Measure of one side of 9 cm	of an equilateral triang	gle is 6 cm. Length of	its median is
	a) Less than	b) Greater than	c) Equal to	d) None of these
4)	Perimeter of rectangle	e is 22 cm.Length of i	ts diagonal is	11 cm
	a) Equal to	b) Greater than	c) Less than	d) None of these
5)	ABCD is parallelogr	am such that $m \angle C =$	105°. Which one of th	e following is the
	longest side?			
	a) \overline{AB}	b) \overline{BC}	c) \overline{CD}	d) \overline{BD}
6)	Measures of two side be its third side?	es of a triangle are 7.2	cm and 6.5 cm. Whic	h of the following can
~~~	a) 12 cm	b) 14 cm	c) 13.7 cm	d) All of the above
CHA	PTER # 14 RATIO A	AND PROPORTION	6.1	1 1
1)	If two triangles are	, then the mo	easures of their corres	ponding sides are
	proportional.		-) <b>D</b> ue a entire a 1	1) N
ofthe	a) Similar	b) Not similar	c) Proportional	d) None
$\frac{01}{2}$	If the angles of AAF	C are congruent to th	a corresponding angle	s of A DEE then the
2)	friendles are		ie corresponding angle	$5 \text{ OI } \Delta \text{ DEI}^{\circ}$ , then the
	a) Proportional	- b) Similar	c) Not similar	d) None of these
2)	$I_{\rm D} \wedge D \cap D = \overline{D} I_{\rm D}$ hissort	$O$ D and mosts $\overline{OB}$	$\overline{DO} = 6 \text{ am}$	$\frac{d}{DD} = 5$ am and m
5)		$S \angle F$ and meets $QK$ a	at L. II III $PQ = 0$ cill,	$\Pi F K = 3 \text{ cm and } \Pi$
	QL = 3  cm then m  LR	2=		
	a) 5 cm	b) 2.5 cm	c) 3 cm d)	6 cm
4)	In $\triangle$ ABC, D is a mic	l point on $\overline{BC}$ , such the	hat $\frac{mAB}{m\overline{BD}} = \frac{mAC}{m\overline{DC}}$ , the	$\overline{AD}$ is the
	of	$\mathbb{Z} \angle A$ .		
	a) Right bisector	b) Bisector	c) Altitude	d) Median
5)	If a line segment inte	rsects the two sides of	f a triangle in the same	ratio then it is
	to the th	nird side.		
	a) Perpendicular	b) Parallel	c) Non parallel	d) None of these
CHA	APTER # 17 PRACTI	CAL GEOMETRY		
1)	If the measures of two	sides and an angle (n	ot included) of a trian	gle are given, then
	how many triangles ca	in be constructed?		
	a) One triang	(leb) Two triangles	c) No triangle	d)
<u>.</u>	All the three possibi	lities exist		
2)	The point of intersec	tion of the	ot a triangle divides the	nem in the ratio 2:1.
	a) Angle bisectors	b) Perpendicular bis	sectors c) Altitude	s (d) Medians

- 3) In a triangle ,the line segment joining a vertex to the mid point of the opposite side of the triangle is called_____
- a) Median
  b) Altitude
  c) Angle bisector
  d) Perpendicular bisector
  4) A line which is perpendicular to a line segment at its mid point is called a/an
  - a) Perpendicular bisector b) Median c) Altitude d) Angle bisector
- 5) Which of the following data is not sufficient to construct a unique triangle ABC?

a) m 
$$\angle A = 90^\circ$$
, m  $\angle B = 60^\circ$  and m  $\angle C = 30^\circ$ 

- b) m  $\angle A=90^{\circ}$ , m  $B\overline{C}=5$  cm and  $\overline{AC}=3$  cm
- c) m $\overline{AB} = 7$  cm, m $\overline{BC} = 6$  cm and m $\overline{CA} = 5$  cm
- d) m  $\overline{AB} = 5 \text{ cm}, \text{ m}\overline{BC} = 4 \text{ cm} \text{ and } \text{m} \angle \text{B} = 45^{\circ}$
- ______of a triangle are concurrent.

a) Medians b) Altitudes c) Perpendicular bisectors d) All of the above

## **QUESTIONS:**

#### Chapter # 1

6)

Ex 1.6 (All questions)

Chapter # 2

Ex 2.3(Q#4), Ex 2.4(Q4,5), Ex 2.5(Q#5)

#### Chapter # 4

Ex 4.5(Q#5,6), Ex 4.3(Q#4,5,6), Ex 4.5(Q#7,8,9), Ex 4.6(Q#3), Ex 4.7(Q#6,7,8,10) Chapter # 7

Ex 7.1(Q#2,3,4,5,6,7,8)

#### Chapter # 9

Ex 9.2(Q#1,6,9), Ex 9.3(Q#2,3,4)

#### Chapter # 17

Ex 17.2(Q#1(i), Q#2(iii), Q#3(ii), Q#4(ii))