



Modernage Public School & College, Pakistan
Homework for Summer Break
Grade XI (Federal), Session 2026-27

Dear Parents and Students of Grade XI,

As we conclude a term marked by academic progress and focused effort, we commend our students for their dedication and resilience in facing the challenges of a board class. With the summer break ahead, we aim to make the most of this time by reinforcing key concepts, revising important topics, and building a strong foundation for the upcoming session.

This summer, our focus remains on structured revision. Students are expected to revisit previously covered content, follow a revision timetable, and work on concept lists prepared by subject teachers. These efforts will not only strengthen their understanding but also prepare them well for the board examinations.

Purpose of the Homework

- To systematically revise essential topics from the course.
- To consolidate learning through concept mapping and focused practice.
- To build self-discipline, time management, and exam readiness.

What to Expect

- A well-planned revision timetable shared for all core subjects.
- Concept-based question sets and practice papers.
- Tasks that encourage reflective learning and conceptual clarity.

Parental Involvement

We value and appreciate the role of parents in supporting students through this crucial academic year. We encourage you to:

- Ensure a balanced daily schedule for your child with dedicated study hours.
- Support the use of concept lists and past paper practice.
- Motivate them through appreciation and regular check-ins.

Summer Vacation Schedule

- **School will remain closed from Thursday, 25th June 2026.**
- **Classes will resume on Monday, 3rd Aug 2026, In Sha Allah.**

Homework Submission

All summer homework, revision assignments, and concept lists must be submitted on **Monday, 3rd Aug, 2026.**

As we step into this summer break, we wish our students a restful yet productive time. May this break recharge their minds and prepare them for a successful academic journey ahead.

• For homework details, visit www.maps.edu.pk, log in to the **school portal**, or check the **Modernage app**.

Looking forward to welcoming you back—refreshed, prepared, and ready to excel.

Warm regards,

Academic Coordinator

1. English

1. Comprehension Passage:

Read the following Stanza and answer the questions below:

I saw you toss the kites on high,
And blow the birds about the sky;
And all around I heard you pass,
Like ladies, skirts across the grass,
O wind, a-blowing all day long,
O wind, that sings so loud a song!

Questions:

1. What entity is being personified by the poet in this stanza?
2. Write down the central idea of this stanza.
3. Define simile and choose an example of it from the stanza.
4. Suggest a very suitable title for this stanza.
5. Define couplet and choose an example of it from the stanza.

2.Types of Sentences:

1. Write down 2 declarative sentences.
2. Write down 2 imperative sentences.
3. Write down 2 interrogative sentences.

3. Phrasal verbs:

Use the following phrasal verbs in the sentences:

- a) Take off, b) Take over, c) Call off, d) Ask for , e) Take care

4. Proverbs

Match the proverbs with their meanings:

1. A stitch in time saves nine.
 2. An apple a day keeps the doctor away.
 3. Actions speak louder than words.
 4. Better late than never.
 5. Every cloud has a silver lining.
- a. Doing something promptly saves more work later.
 - b. It is better to do something late than not at all.
 - c. Regular health habits prevent illness.
 - d. There is something good in every bad situation.
 - e. What you do is more important than what you say.

5. Translation

Translate the following sentences from Urdu to English:

1. بچے پارک میں کھیل رہے ہیں۔
2. ہم کل چھٹیوں پر جائیں گے۔
3. وہ کتاب میز پر ہے۔
4. وہ سمندر کے کنارے چل رہی ہے۔
5. اس نے تالاب میں چھلانگ لگائی۔

6. Paragraph Writing

Write a paragraph on the importance of “timely completion of academic assignments”

7. Questions from "Family Values in Pakistan".

Read the chapter "Family Values in Pakistan" and answer the following questions:

1. What are some key family values emphasized in Pakistani culture?
2. How do families in Pakistan typically support each other?
3. Why is respect for elders important in Pakistani families?
4. How do cultural and religious traditions influence family values in Pakistan?
5. Give an example of how community support is portrayed in the chapter.
6. Design 10 multiple choice questions (MCQs) based on the chapter.

8. Questions from "Shooting Stars"

Read the chapter "Shooting Stars" and answer the following questions:

1. What is the central theme of the chapter "Shooting Stars"?
2. Describe a key event in the chapter and its significance.
3. How do the characters in "Shooting Stars" exhibit resilience?
4. What lesson can be learned from the chapter?
5. How does the author use imagery to enhance the narrative?
6. Design 10 multiple choice questions (MCQs) based on the chapter

9. Questions from "The Wind" Poem by Stevenson.

Read the poem "The Wind" by Stevenson and answer the following questions:

1. What is the main theme of the poem "The Wind"?
2. How does Stevenson personify the wind in the poem?
3. Describe the imagery used in the poem to depict the wind.
4. What emotions does the poem evoke about nature?
5. How does the poem reflect Stevenson's view of the natural world?
6. Design 10 multiple choice questions (MCQs) based on the poem.

2. Biology

1. In integrated disease management involves: A) Combating of disease, B) Loss of microbes, C) Extinction of species, D) Division of zygote
2. A structure within a cell that performs a specific function is called:
A) Molecule, B) Atom, C) Element, D) Organelle
3. Who said “Omni cellula e cellula”?
A) Lorenz Oke, B) Jean Baptist de Lamarck, C) Rudolph, D) August Weisman
4. The resolution of electron microscope ranges between:
A) 2-4 angstrom, B) 2-4 nm, C) 2-4 um, D) None of above
5. Which one of the following can easily cross the plasma membrane?
A) Alcohol, B) Glucose, C) Sucrose, D) All of them
6. Glyoxisomes are found in:
A) Pea, B) Gram, C) Soya bean, D) All of them
7. The number of chromosomes in the cell of frog is:
A) 16, B) 18, C) 22, D) 26
8. All living organisms are formed of basic units called:
A) Tissues, B) Organs, C) Atoms and sub-atomic particles, D) Cells
9. Cloning is a technology for achieving:
A) All the living and non-living matter is formed of: Cells and cell products, B) Organic molecules and tissues, C) Atoms and sub-atomic particles, D) Organs and organelle
10. Heptoses contain:
A) Glucose, B) Maltose, C) Starch, D) Fructose
11. The kind of amino acids which are involved in the synthesis of most proteins are:
A) 20, B) 30, C) 40, D) 60
12. Coiling of two strands of DNA is:
A) Parallel, B) Antiparallel, C) Lateral, D) Colateral
13. Rubber is an example of:
A) Carbohydrates, B) Waxes, C) Acylglycerol, D) Terpenoids
14. Which of the following kinds of atoms does not occur in carbohydrates?
A) Oxygen, B) Nitrogen, C) Carbon, D) Hydrogen
15. Globular proteins differ from fibrous proteins in:

A) Being non-crystalline, B) Having more amino acids, C) Their repeating units joined by peptide bond, D) Being soluble in aqueous medium

16. Peptide bonds are found in:

A) Lipid, B) Carbohydrate, C) Proteins

17. Amino acids are arranged in proper sequence during protein synthesis according to the instruction transcribed on:

A) DNA, B) Ribosomal RNA, C) Messenger RNA, D) Transfer RNA

18. Which of the following is a protein:

A) Cellulose, B) Insulin, C) ATP, D) Cholesterol

19. Which one of the following is an organic molecule?

A) $C_6H_{12}O_6$, B) H_2SO_4 , C) NO_2 , D) H_2O

20. Tetrasaccharides occur in:

A) Fungi, B) Algae, C) Bacteria, D) Viruses

21. Peptide bond is a:

A) C-H link, B) C-O link, C) C-N link, D) N-H link

22. A triglyceride is a:

A) Protein, B) Lipid, C) Simple sugar, D) Nucleic acid

23. Enzymes are:

A) Steroids, B) Polysaccharides, C) Proteins, D) Triglyceride

24. To produce Lactose:

A) Two amino acids must form a peptide bond, B) Pairing of nitrogenous bases must occur between nucleotides, C) Glucose and fructose must undergo a hydrolysis reaction, D) Glucose and galactose must undergo a dehydration reaction

25. Which class of molecule is the major component of the cell membrane?

A) Wax, B) Phospholipid, C) Triglyceride, D) Cellulose

26. Glycogen is an example of a:

A) Both a polysaccharide and a carbohydrate, B) Phospholipid, C) Polysaccharide only, D) Carbohydrate only

27. Animals obtain carbohydrates mainly from:

A) Glycogen, B) Glucose, C) Sucrose, D) Starch

28. The biological function of a protein is determined by its: A) Tertiary structure, B) Quaternary structure, C) Secondary structure, D) Primary structure
29. Glycerol is the backbone molecule for:
A) DNA, B) ATP, C) Triglycerides, D) Disaccharides

Note: Answer the following questions.

1. Differentiate between staining techniques.
2. Why cell fractionation is important?
3. What is microdissection?
4. Why lysosome is known as a suicidal bag?
5. Elaborate the role of Mitochondria and Chloroplast.
6. Why cytoskeleton is important for cells?
7. Write a note on the types of Proteins.
8. Compare the types of Carbohydrates.
9. Explain the open-chain and closed-chain structures of Monosaccharides.
10. What is the importance of biomolecules in the life of an organism?

3. Chemistry

Note: Answer the following short questions

1. What is the importance of Bohr's atomic model in atomic structure?
2. How do different spectral series originate in the hydrogen spectrum?
3. Why is the cation smaller than its parent atom?
4. Why the size of an anion is greater than its parent atom?
5. Why the energy of a 3d orbital is greater than a 4s orbital? Explain with the help of the $n + l$ rule.

Note: Make 10 possible multiple-choice questions from the following topics

1. Mass spectrometry
2. Quantum number
3. Electronegativity
4. Dipole moment

4. Computer

1. Which of the following is NOT a basic logic gate?
 - a) AND
 - b) OR
 - c) NOR
 - d) XOR

2. What is the output of an AND gate when both inputs are 1?
 - a) 0
 - b) 1
 - c) Undefined
 - d) Depends on the power supply
3. Which gate produces an output of 1 when at least one of its inputs is 1?
 - a) AND
 - b) OR
 - c) NOT
 - d) NAND
4. What is the output of a NOT gate when the input is 0?
 - a) 0
 - b) 1
 - c) Undefined
 - d) It can be either 0 or 1
5. Which gate produces an output of 0 only when both inputs are 1?
 - a) AND
 - b) OR
 - c) NAND
 - d) NOR
6. What is the output of an XOR gate when both inputs are the same?
 - a) 0
 - b) 1
 - c) Undefined
 - d) Depends on the previous input
7. Which logic gate is known as a universal gate because it can be used to create any other gate?
 - a) AND
 - b) OR
 - c) NAND
 - d) XOR
8. What is the output of a NOR gate when both inputs are 0?
 - a) 0
 - b) 1
 - c) Undefined
 - d) Depends on the previous input
9. Which gate inverts its input signal?
 - a) AND
 - b) OR
 - c) NOT
 - d) XOR
10. What is the result of an OR gate with inputs 0 and 1?
 - a) 0
 - b) 1
 - c) Undefined
 - d) Depends on the previous state
11. Which Boolean algebra property does the equation $(A + 0 = A)$ represent?
 - a) Identity Law
 - b) Domination Law
 - c) Idempotent Law
 - d) Complement Law

12. What is the result of $(A \cdot \overline{A})$ in Boolean algebra?
 a) A
 b) 0
 c) 1
 d) $\overline{A}$
13. Which of the following represents the Distributive Law in Boolean algebra?
 a) $(A \cdot (B + C) = (A \cdot B) + (A \cdot C))$
 b) $(A + (B \cdot C) = (A + B) \cdot (A + C))$
 c) $(A + A = A)$
 d) $(A \cdot A = A)$
14. Simplify the Boolean expression $\overline{(A \cdot B)}$ using De Morgan's Theorem.
 a) $\overline{A} + \overline{B}$
 b) $\overline{A} \cdot \overline{B}$
 c) $(A + B)$
 d) $(A \cdot B)$
15. Which of the following expressions is equivalent to $(A + \overline{A} \cdot B)$?
 a) (A)
 b) $(A + B)$
 c) (1)
 d) (B)

Questions

(20)

- Predict how internet of things might evolve in the next 10 years.
- Write a Python program that asks the user to input their name and then prints a greeting message with their name.

Requirements:

The program should prompt the user to enter their name.

The program should print a greeting message that includes the user's name.

- Make a power point presentation and explain the different phases of the Software Development Life Cycle (SDLC) and describe the main activities involved in each phase.

5. Islamiyat

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سوال نمبر 1۔ احادیث کی کتنی اقسام ہیں۔ بیان کریں۔

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سوال نمبر 2۔ توحید کے معنی و مفہوم بیان کریں۔ عقیدہ توحید کے انسانی زندگی پر کیا اثرات مرتب ہوتے ہیں؟

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سوال نمبر 3۔ احادیث کے معنی اور بالمحاورہ ترجمہ تحریر کریں۔

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سوال نمبر 4۔ اصول اربعہ اور صحاح ستہ کے نام اور مولفین کے نام تحریر کریں۔

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سوال نمبر 5۔ انبیاء کی خصوصیات بیان کریں۔

6. Physics

1. Numerical of chapter 1 and 2 from the Abbottabad board book.
2. Example and Assignment of chapter no 1 and 2 from Abbottabad board book.
3. Chapter no 3
 - Projectile Motion
 - Elastic collision
4. Make at least 20 MCQS from 1st three chapters.

7. اردو

- سوال نمبر 1: ناول "اور پاکستان بن گیا" کا فنی و فکری جائزہ لکھیں۔
- سوال نمبر 2: (الف) نظم "حمد اور نعت کا فنی و فکری جائزہ لکھیں۔
- (ب) ضرب المثل، محاورہ اور روزمرہ میں فرق بیان کریں۔
- سوال نمبر 3: تلخیص نگاری اور مرقع نگاری اور تراکیب لفظی کی تعریف اور مثالیں لکھ کر لائیں۔
- سوال نمبر 5: اپنے کسی سفر کی روداد دلچسپ انداز میں تحریر کریں۔

8. Math

Practice sheets are attached with the file.