



St. Mary's School, Dwarka
Holiday Homework 2026
Class: XI
Worksheet 4

Subject: English Core

No. of questions: 8

Max.Marks:25

Read the passage given below:

1. In recent years, psychologists and educators have increasingly emphasised the importance of adaptability in achieving success. Adaptability refers to a person's ability to adjust to unfamiliar situations, accept change, and continue functioning effectively despite uncertainty. While intelligence and talent remain valuable qualities, individuals who can adapt often manage difficulties with greater confidence and emotional strength.
2. The modern world changes rapidly. Technological developments, changing career demands, and social expectations constantly require individuals to learn new skills and rethink old habits. Young people, in particular, often experience pressure to perform well academically while maintaining social approval. This pressure may sometimes create fear of failure, anxiety, and frustration, especially when unrealistic comparisons with others dominate their thinking.
3. Experts suggest that adaptability can be strengthened through practical experiences and a positive mindset. Trying new activities, learning from mistakes, and remaining open to advice help individuals grow mentally stronger. Maintaining supportive friendships, engaging in physical activity, and balancing studies with leisure also contribute to emotional stability. Rather than fearing uncertainty, adaptable individuals treat challenges as opportunities for growth.
4. People with adaptability rarely lose hope during setbacks. They stay focused, recover from disappointments, and continue making efforts toward improvement. Such qualities not only increase confidence but also prepare individuals to manage life's unexpected difficulties successfully.

Based on your understanding of the passage, answer the following questions. (1×5 = 5)

(i) According to the passage, adaptable people generally —

- a) refuse unfamiliar situations completely
- b) recover steadily after disappointments
- c) avoid difficult decisions repeatedly
- d) depend strongly on outside approval

(ii) Which statement is TRUE according to the passage?

- a) Social approval removes emotional pressure.
- b) Adaptability develops without personal effort.

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- c) Unrealistic comparisons may create frustration.
- d) Challenges should always be carefully avoided.

(iii) Mention any two ways suggested in the passage to strengthen adaptability.

(iv) Find the word from the passage that means the same as “ability to adjust to change.” (Para 1)

- a) confidence
- b) uncertainty
- c) adaptability
- d) frustration

(v) Choose the option that best describes the meaning of ‘setbacks’ as used in the passage.

- a) moments of praise and honour
- b) unexpected problems and failures
- c) planned activities and events
- d) natural talents and interests

Q2. You are Rohan/Riya of 24 Lake View Colony, Jaipur. You are a trained Computer Instructor with knowledge of programming languages and good communication skills. Draft a suitable Situation Wanted Advertisement in not more than 50 words for publication in a local newspaper. Mention your qualifications, experience, expected salary, and contact details. (5)

Do as directed.

Q3. Rearrange the parts of the sentence in the correct order. (1)

- A. with great enthusiasm and excitement
- B. despite facing unexpected weather conditions
- C. the volunteers completed the cleanliness campaign
- D. before the arrival of the chief guest

Options:

- a) B - C - D - A
- b) A - D - C - B
- c) D - B - C - A
- d) C - A - D - B

Q4. Choose the correct options to fill in the blanks. ($\frac{1}{2} \times 4 = 2$)

(a) _____ advice was given to the participants during the workshop.

- A. Many
- B. Several
- C. Much
- D. Few

(b) Very _____ players attended the morning practice session.

- A. much
- B. little
- C. few
- D. every

(c) Did _____ inform you about the meeting schedule?

- A. anyone
- B. nobody
- C. none
- D. everybody

(d) You may select _____ route to reach the station.

- A. little
- B. much
- C. either
- D. several

Q5. Fill in the blanks with the correct form of the word given in brackets. ($\frac{1}{2} \times 4 = 2$)

Last Saturday, Aman(a) _____ (finish) his school project before lunch. While he(b) _____ (prepare) notes for revision, his sister(c) _____ (watch) television in the living room. Their father(d) _____ (request) her to reduce the volume politely.

Q6. Why did the narrator in *'We're Not Afraid to Die... if We Can All Be Together'* decide to continue the voyage despite the difficulties? Answer in 40–50 words. (2)

Q7. How did the children, Jonathan and Suzanne, show courage during the dangerous journey in *'We're Not Afraid to Die... if We Can All Be Together'*? Answer in 80 words. (3)

Q8. Imagine you are one of the crew members aboard the Wavewalker during the dangerous storm. Create a **Survival Logbook Page** describing the family's experiences and emotions during the crisis. (5)

Your logbook page should include:

- A suitable title for the page
- Date and location of the storm at sea
- Three major challenges faced by the family
- Steps taken by the narrator and crew to survive
- Feelings and emotions experienced during the voyage
- One inspiring quote from the lesson or a self-created survival motto
- Creative elements such as sketches, symbols, maps, waves, or compass designs related to sea adventure

Subject: Hindi Core

No. of questions: 10

M.M. 25

प्रश्न 1 निम्नलिखित पद्यांश पर आधारित प्रश्नों के उत्तर निर्देश के अनुसार दीजिएः
(1×5=5)

पैदा करती कलम विचारों के जलते अंगारे,
और प्रज्वलित प्राण देश क्या कभी मरेगा मारे?
लहू गर्म करने को रक्खो मन में ज्वलित विचार,
हिसक जीव से बचने को चाहिए किंतु तलवार।
एक भेद है और जहाँ निर्भय होते नर-नारी
कलम उगलती आग, जहाँ अक्षर बनते चिंगारी
जहाँ मनुष्यों के भीतर हरदम जलते हैं शोले,
बातों में बिजली होती, होते दिमाग में गोले।
जहाँ लोग पालते लहू में हालाहल की धार
क्या चिंता यदि वहाँ हाथ में हुई नहीं तलवार?

(i) कविता में कलम को किससे तुलना की गई है?

- (क) फूल
- (ख) आग और चिंगारी
- (ग) नदी
- (घ) पर्वत

(ii) कवि के अनुसार हिंसक जीव से बचने के लिए क्या आवश्यक है?

- (क) मित्रता
- (ख) तलवार
- (ग) कलम
- (घ) विचार

(iii) कवि ने विचारों की शक्ति को किस रूप में प्रस्तुत किया है?

- (क) बिजली और गोले
- (ख) फूल और सुगंध
- (ग) नदी और धार
- (घ) पर्वत और स्थिरता

(iv) कविता में विचारों की ज्वाला का क्या महत्त्व है?

(v) कवि ने तलवार और कलम के बीच क्या अंतर बताया है?

प्रश्न 2 अधिकारी कब आनुषंगिक टिप्पणी करता है?

(5×1=5)

प्रश्न 3 अपने प्रिय जनसंचार माध्यम के लाभ व हानि बताइए।

(2×2 = 4)

प्रश्न 4 जनसंचार के प्रकारों का वर्णन कीजिए।

निम्नलिखित प्रश्नों के उत्तर दीजिए :

(1½×4 = 6)

प्रश्न 5 कहानी 'नमक का दरोगा' के पात्र पंडित अलोपीदीन के व्यक्तित्व की विशेषताएँ बताइए।

प्रश्न 6 मियाँ नसीरुद्दीन के चेहरे पर 'दबे हुए अंधड़ के आसार' से क्या तात्पर्य है?

प्रश्न 7 "आज पानी गिर रहा है. भुजा भाई, प्यार बहिने," इन पंक्तियों का आशय स्पष्ट कीजिए।

प्रश्न 8 कृष्ण की भक्ति ने मीरा पर क्या प्रभाव डाला?

प्रश्न 9 लता ने करुण रस के गानों के साथ न्याय नहीं किया है, जबकि श्रृंगारपरक गाने वे बड़ी उत्कटता से गाती हैं- इस कथन से आप कहाँ तक सहमत हैं?

(1×1 = 1)

प्रश्न 10 परियोजना कार्य : किसी संगीत वाद्य का मॉडल बनाकर उस पर लता मंगेशकर द्वारा गाए गए किसी गीत की चार पंक्तियाँ लिखिए।

(4×1=4)

Subject: Mathematics

No. of questions: 10

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Q.1) Choose the correct option:

(1x3=3)

a) Which of the following statement is false:

i) $A - B = A \cap B^c$

ii) $A - B = A - (A \cap B)$

iii) $A - B = A - B^c$

iv) $A - B = (A \cup B) - B$

b) Let R be a relation from a set A to a set B, then:

i) $R = A \cup B$

ii) $R = A \cap B$

iii) $R \subseteq A \times B$

iv) $R \subseteq B \times A$

c) In a right angle, the difference between two acute angles is $(\frac{\pi}{15})^c$. What is the measure of the smallest angle?

i) 40°

ii) 45°

iii) 36°

iv) 39°

Q.2) Prove that $\cos \theta \cos \frac{\theta}{2} - \cos 3\theta \cos \frac{9\theta}{2} = -\sin 4\theta \sin \frac{7\theta}{2}$.

2

Q.3) If $f(x) = x^2 + 1$, find $\frac{f(1.01) - f(1)}{1.01 - 1}$.

2

Q.4) The relation f is defined by $f(x) = \begin{cases} x^2, & 0 \leq x \leq 3 \\ 3x, & 3 \leq x \leq 10 \end{cases}$

The relation g is defined by $g(x) = \begin{cases} x^2, & 0 \leq x \leq 2 \\ 3x, & 2 \leq x \leq 10 \end{cases}$

Show that f is a function and g is not a function.

2

Q.5) Show that the following conditions are equivalent:

2

a) $A \subset B$

b) $A - B = \{ \}$

c) $A \cup B = B$

d) $A \cap B = A$

Q.6) Find the domain and range of function $f(x) = \frac{1}{\sqrt{4-x^2}}$.

2

Q.7) Convert the complex number $z = \frac{i-1}{\cos \frac{\pi}{3} + i \sin \frac{\pi}{3}}$ in a + ib form

3

Q.8) Prove that: $\frac{\sin 5x - 2 \sin 3x + \sin x}{\cos 5x - \cos x} = \tan x$.

3

Q.9) Find the conjugate of $\frac{(3-2i)(2+3i)}{(1+2i)(2-i)}$.

3

Activity Work:Q.10) Draw the graphs of trigonometric functions $\tan x$ and $\cot x$.

3

Subject: Physics

No. of questions: 10

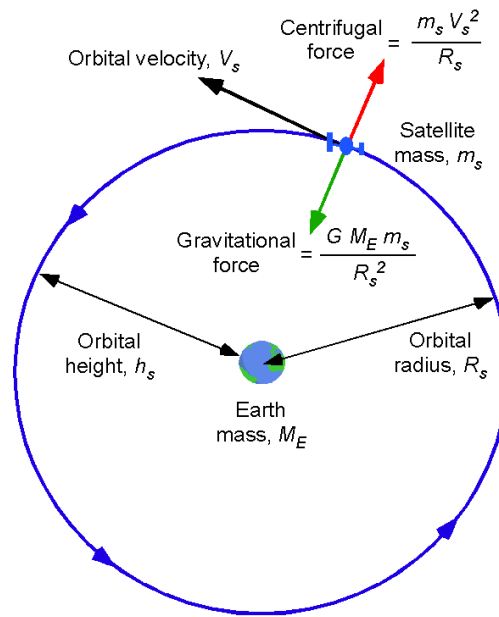
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- Q1. If a and b are two unit vectors such that $a+2b$ is perpendicular to $5a-4b$, then find the angle between a and b is. (2)
- Q2. Find the dot product of two vectors $A = 2i-3j+k$ and $B = 2i+j-2k$. (2)
- Q3. If the magnitudes of two vectors are 4 units and 5 units, respectively, and the angle between them is 60° , calculate their scalar product. (2)
- Q4. Check whether the vectors $P = 2i+2j+3k$ and $Q = 2i-j+0k$ are perpendicular to each other. (2)
- Q5. Find the value of λ so that vector $A = 2\hat{i} + \lambda\hat{j} + \hat{k}$ is perpendicular to the vector $B = 4i-2j+2k$. (2)
- Q6. (i) A particle moves from a point(1,2,3) to a point (3,5,7) under the influence of a force $F = (2i+3j)N$. Find the total work done by the force. (ii) Determine the component (projection) of a vector $A = 2i+3j$ along the direction of vector $B = \hat{i} + \hat{j}$. (3)
- Q7. (i)If A and B are two unit vectors such that the angle between them is 60° ($\pi/3$ rad), what is the value of the scalar product $(2A + B) \cdot (3A - 4B)$?
(ii) A particle moves with a velocity $v = (3i + 4j + 5k)$ m/s under the influence of a constant force $F = (2i - 3j + 4k)$ N. Calculate the instantaneous power delivered to the particle. (3)
- Q8. (i).A force $F = 2i + bj + k$ is applied to a particle, causing it to undergo a displacement $s = i - 2j - k$. If the net work done on the particle is zero, find the value of b .
(ii)Find the angle between two vectors $P = i + j$ and $Q = j + k$. (1.5+1.5=3)
- Q9. (i)A body moves from a coordinate point $M(1, 2, 1)$ to another point $N(3, 4, 5)$ when acted upon by a constant force $F = (4i + j + 3k)$ N. Find the total work done by this force .
(ii) If $|A + B| = |A - B|$, what is the geometric relationship between the vectors A and B ? (2+1=3)
- Q10. (i) Determine the scalar projection (component) of the vector $A = 2i - j$ along the direction of the vector $B = i - j$.
(ii) Given two vectors $A = 3i + pj + 2k$ and $B = 2i - j + 4k$. If these vectors are perpendicular to each other, find the value of p . (1.5+1.5=3)

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Activity: Refer to the diagram given below to answer the questions : The diagram shows the movement of a satellite around earth in a circular orbit.

1. Write the mathematical expression of centripetal force acting on the satellite
2. Write the mathematical expression of centrifugal force acting on the satellite
3. What is the direction of velocity of the satellite in its orbit .
4. Is the motion of satellite in its orbit an accelerated motion ?Justify your answer !



Subject: Chemistry

No. of questions: 10

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Section A: Multiple Choice Questions

1. Which of the following is not a redox reaction? (1)
- (a) $2K + F_2 \rightarrow 2KF$
(b) $BaCl_2 + H_2SO_4 \rightarrow BaSO_4 + 2HCl$
(c) $4Al + 3O_2 \rightarrow 2Al_2O_3$
(d) $CH_4 + 2O_2 \rightarrow CO_2 + 2H_2O$
2. The oxidation number of Sulfur in $H_2S_4O_6$ (Tetrathionate ion) is: (1)
- (a) +2.5 (b) +2 (c) +4 (d) +6

Section B: Very Short Answer Questions (2)

3. What is an Electrochemical series? (2)
4. Define 'Displacement Reaction' with a suitable chemical equation. (2)
5. Why is the oxidation state of Fluorine always -1 in its compounds? (2)

Section C: Short Answer Questions (3)

6. Balance the following half-reaction in basic medium: (3)
- $MnO_4^- \rightarrow MnO_2$
7. What are 'Spectator Ions'? Identify them in the reaction: (3)
- $Zn(s) + CuSO_4(aq) \rightarrow ZnSO_4(aq) + Cu(s)$
8. Explain why HNO_3 acts only as an oxidant, whereas HNO_2 can act as both an oxidant and a reductant. (3)
9. Describe the setup of a Daniell Cell with a labeled diagram. (3)

Section D: Long Answer Question:

10. (a) Balance the following equation by the **Half-Reaction Method** in basic medium: (3)
- $MnO_4^-(aq) + I^-(aq) \rightarrow MnO_2(s) + I_2(s)$
- (b) What is the function of a salt bridge? (2)

Q1 Choose the correct answer from the following:

(1 × 5 = 5)

(a) What will be the data type of the following value?

$$x = 5 + 3j$$

- A. int
- B. float
- C. complex
- D. bool

(b) What is the output of:

```
print(type(True))
```

- A. int
- B. bool
- C. str
- D. float

(c) Which of the following data types is immutable?

- A. list
- B. dictionary
- C. set
- D. tuple

(d) What will be the output?

```
x = "15"  
y = int(x)  
print(type(y))
```

- A. str
- B. float
- C. int
- D. bool

(e) Which statement is correct?

- A. Lists are immutable
- B. Tuples are mutable
- C. Strings are immutable
- D. Dictionaries are immutable

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Q2 Predict the output:

(1 × 5 = 5)

a) Find the output:

```
x = 10
y = 2.5
z = x + y
print(type(z))
```

b) Find the output:

```
a = [1,2,3]
print(type(a))
```

c) Find the output:

```
x = (10,)
print(type(x))
```

d) Find the output:

```
a = "25"
b = float(a)
print(b)
print(type(b))
```

e) Find the output:

```
x = {1,2,3,4}
print(type(x))
```

Q3 a) Identify the error and rewrite the correct code:

(2)

```
x = "50"
y = 10
print(x + y)
```

b) Identify the error:

```
a = (1)
print(type(a))
```

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Q4. Why is data handling important in Python? (1)

Q5 Differentiate between list and tuple on the basis of mutability. (1)

Q6. A) Predict the output: (2)

```
x = bool(0)
y = bool(1)
print(x, y)
print(type(x))
```

Q7. A student creates the following list: (2)

```
L = [10, 20, 30, 40]
```

Why is indexing useful in lists?

Q8.A programmer stores: (2)

```
T = (5, 10, 15)
```

Why are tuples considered safer than lists?

Q9. A learner writes:

```
L = [10,20,30]
print(L[3])
```

Why will this statement produce an error? (2)

Q10. A programmer stores student details as: (3)

```
student = ["Riya", 17, 92.5, True]
```

Answer the following:

- Name the data type used.
- Which values belong to int, float, and bool data types?
- Is this data type mutable or immutable?

Write Python programs for the following in your practical file:

- Write a Python program to display the month name corresponding to a month number (1–12).
- Write a Python program to determine the type of triangle (Equilateral, Isosceles, or Scalene) based on the lengths of its sides.
- Write a Python program to create a simple ATM menu with options such as Balance Enquiry, Deposit, Withdrawal, and Exit using if–elif–else statements.

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- 4) Write a Python program to calculate the discount on a purchase amount according to the following discount slabs:

Purchase Amount (₹)	Discount
Below 1000	5%
1000 to 4999	10%
5000 to 9999	15%
10000 and above	20%

The program should:

- Accept the purchase amount from the user.
 - Determine the applicable discount using if-elif-else statements.
 - Calculate the discount amount and the final payable amount.
 - Display the discount percentage, discount amount, and net amount to be paid.
- 5) Write a Python program to calculate the fare of a bus ticket based on the passenger's age according to the following fare structure:

Age Group	Fare Charged
Below 5 years	Free
5 to 12 years	50% of the ticket fare
13 to 59 years	Full ticket fare
60 years and above	30% discount on the ticket fare

The program should:

- Accept the passenger's age and the standard ticket fare as input.
- Determine the applicable fare using if-elif-else statements.
- Calculate the final fare to be paid.
- Display the passenger's age, applicable concession (if any), and the final fare.

Subject: Biology

No. of questions: 10

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- Q1. Mention any two rules of Binomial Nomenclature as proposed by Carolus Linnaeus. (1)
- Q2. What are Bacteriophages? (1)
- Q3. Why are Red Algae (*Rhodophyceae*) able to survive at great depths in the ocean? (2)
- Q4. Define Heterospory. Name two Pteridophyte genera that exhibit this condition. (2)
- Q5. What are Pneumatic bones? In which class of vertebrates are they a characteristic feature? (2)
- Q6. Describe the three different shapes of Bacteria with their technical names and provide one example for each. (3)
- Q7. Differentiate between Diploblastic and Triploblastic organization. Name one phylum belonging to each category. (3)
- Q8. Read the passage and answer the following questions:
Lichens are symbiotic associations between algae and fungi. The algal component is known as phycobiont and the fungal component as mycobiont. Algae prepare food for fungi and fungi provide shelter and absorb mineral nutrients and water for its partner. Lichens are very good pollution indicators—they do not grow in polluted areas.
1. What is the specific term for the fungal partner in a lichen? (1)
 2. Which type of gas is a major pollutant that prevents lichen growth? (1)
 3. What is the nutritional role of the phycobiont? (1)
 4. Why is the relationship in lichens called "obligate symbiosis"? (1)
- Q9. Read the passage and answer the following questions:
The Class Chondrichthyes consists of marine animals with a streamlined body and a cartilaginous endoskeleton. Their mouth is located ventrally. Notochord is persistent throughout life. Skin is tough, containing minute placoid scales. Unlike bony fishes, they lack an operculum (gill cover) and an air bladder, which forces them to swim constantly to avoid sinking.
1. Why must a shark (Chondrichthyes) swim constantly? (1)
 2. What kind of scales are found on the skin of cartilaginous fishes? (1)
- Q10. Compare the three classes of Algae—Chlorophyceae, Phaeophyceae, and Rhodophyceae—based on the following criteria: (5)
- Major pigments
 - Stored food material
 - Cell wall composition
 - Flagellar number and position of insertion

Subject: Legal Studies

- Q1. Please explain the concept of Internal Sovereignty and External Sovereignty. Why are both essential for the existence of a State? (2)
- Q2. The State has often been described as “society politically organised”. Explain this statement with reference to the relationship between society and State. (2)
- Q3. Explain any two features of a Modern Welfare State. (2)
- Q4. Explain the meaning of Separation of Powers. Is complete separation of powers possible in practice? Give reasons in support of your answer. (2)
- Q5. Compare the views of Thomas Hobbes and John Locke regarding the State of Nature and the powers of the ruler established through the Social Contract. (2)
- Q6. Why did Rousseau reject the idea of absolute political authority? Explain his concept of “General Will”. (2)
- Q7. Explain any three functions performed by the Legislature apart from law-making. (3)
- Q8. Distinguish between a Minimal State and a Developmental State. Which model do you think is more suitable for a developing country like India? Give reasons. (3)
- Q9. Explain the importance of Judiciary as an organ of Government. Discuss any three functions performed by the Judiciary. (3)
- Q10. The Republic of Westeros has a fixed population and a clearly defined territory. It is governed by an organised government. However, another powerful country, Asshai, controls its foreign policy, defence decisions, and international relations. The citizens of Westeros obey their government, but major decisions require approval from the foreign power. Answer the following questions:
- i. Which essential element of Statehood is affected in the above case? (1)
 - ii. Does the Republic of Westeros possess complete Statehood? Give reasons for your answer(1)
 - iii. Which of the four essential elements of a State does the Republic of Westeros clearly possess despite the foreign control vesting with Asshai? Mention any two. (2)

Subject: Business Studies

No. of questions: 10

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- Q.1 "Risk is an essential part of every business." Which of the following justifies this? 1
- a) Profits can be predicted
 - b) No risk, no gain
 - c) Risk can be eliminated
 - d) Insurance covers all risks
- Q.2 "Blue Star Pvt. Ltd." wants to convert into a Public Company. What is the minimum number of members they now need? 1
- a) 2
 - b) 7
 - c) 50
 - d) 200
- Q.3 **Assertion (A):** Banking is considered an auxiliary to trade because it facilitates the transfer of goods from producers to consumers.
Reason (R): Banking provides financial assistance for business activities, thus removing the hindrance of finance in trade.
Choose the correct option: 1
- (a) Both A and R are true and R is the correct explanation of A.
 - (b) Both A and R are true and R is not the correct explanation of A.
 - (c) A is true but R is false.
 - (d) A is false but R is true.
- Q.4 **Assertion (A):** When starting a new business, assessing the availability of skilled labor is a crucial factor to consider.
Reason (R): The success of a business heavily depends on the efficiency and productivity of its workforce.
Choose the correct option: 1
- (a) Both A and R are true and R is the correct explanation of A.
 - (b) Both A and R are true and R is not the correct explanation of A.
 - (c) A is true but R is false.
 - (d) A is false but R is true
- Q.5 Which auxiliary to trade bridges the gap between the producer and the consumer regarding information? 1
- a) Transport
 - b) Advertising
 - c) Banking
 - d) Warehousing
- Q.6 "The death of a partner may lead to the dissolution of the firm, but the death of a shareholder doesn't affect a company." Explain the underlying principle. 3

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Q.7 A book shop owner wants to expand his business and he wants to open another branch. He can appoint a manager to run the branch or take a partner. What are the basis which will help him decide to choose between a manager or a partner? 3

Q.8 Manoj Traders" is a sole proprietorship. Manoj's son, Amit, wants to join the business as a partner. List four changes that will occur in the **legal status** and **liability** of the business once it becomes a Partnership. 4

Q.9 Classify the following activities into Primary, Secondary, or Tertiary industries: 4

- (i) Mining of Iron Ore.
- (ii) Constructing a flyover.
- (iii) Providing legal consultancy.
- (iv) Breeding poultry for eggs.

Q.10 Imagine you are drafting a Partnership Deed. Explain why having a written deed is better than an oral agreement. Mention 5 essential clauses you would include to prevent future disputes among partners. 6

Subject: Accountancy

No. of questions: 10

M.M. 25

Q.1 A store buys 100 designer jackets on credit for ₹4,00,000. Due to a sudden change in fashion trends, 40 of these jackets remain unsold at the end of the year. The net market value of these remaining jackets drops to ₹1,20,000, while their original cost was ₹1,60,000. At what value should the closing stock of these jackets be recorded? 1

- a) ₹1,60,000
- b) ₹4,00,000
- c) ₹1,20,000
- d) ₹2,80,000

Q.2 A printing house buys an industrial paper cutter for ₹80,000 on credit. The seller charges an extra ₹5,000 for delivery and installation. During setup, a worker's mistake damages a blade, requiring a ₹3,000 repair before operations can begin. What is the correct capitalized asset cost of the machinery? 1

- a) ₹80,000
- b) ₹85,000
- c) ₹88,000
- d) ₹83,000

Q.3 Book-keeping is mainly concerned with: 1

- a) Recording of financial data
- b) Designing the systems of summarizing the recorded data
- c) Interpreting the data for internal and external users
- d) Preparation of financial statements of the business enterprise

Q.4 A consulting agency reports a net profit of ₹3,40,000 under the Accrual Basis of accounting. The auditor notes that this figure includes ₹45,000 in credit fees not yet collected, and excludes ₹25,000 in outstanding office rent that hasn't been paid. What would the agency's net profit be under the pure Cash Basis of accounting? 1

- a) ₹3,40,000
- b) ₹3,20,000
- c) ₹3,65,000
- d) ₹2,95,000

Q.5 At the end of the financial year, a firm has an outstanding interest liability of ₹18,000 and prepaid office internet expenses of ₹6,000. How do these adjustments change the accounting equation components? 1

- a) Capital decreases by ₹12,000; Liabilities increase by ₹18,000; Assets increase by ₹6,000.
- b) Capital decreases by ₹18,000; Liabilities increase by ₹18,000.
- c) Capital increases by ₹6,000; Assets decrease by ₹6,000.
- d) Liabilities increase by ₹12,000; Assets decrease by ₹12,000.

Std. XI Worksheet 4

Q.6 From the following information calculate net profit as per accrual basis of accounting of Samrat traders for the year ending 31st. March 2025:

Cash sales Rs.12,00,000

Credit sales Rs.18,00,000

Expenses (out of which Rs. 20,000 unpaid) Rs.5,00,000 3

Q.7 Show how a business event can simultaneously increase outside liabilities and decrease the owner's capital account, without changing the total asset balance. Give example. 3

Q.8 An airline company experiences a 15% drop in passenger bookings after a high-profile pilot strike. The financial director wants to record an estimated loss of ₹50 Lakh for "Loss of Brand Reputation" in the main accounting books to give investors a realistic view of the situation.

(a) Analyze whether this entry can be made, citing the relevant accounting concept.

(b) Discuss the core limitation of financial accounting highlighted by this scenario 4

Q.9 An engineering firm builds custom industrial components. A client cancels an order for a specialized machine after it is 80% complete, refusing to pay the remaining ₹8,00,000 balance. The firm's management wants to continue valuing the half-finished machine at its full expected contract value on the balance sheet, as they plan to take legal action to recover the money next year.

(a) Evaluate this situation using the Prudence (Conservatism) Principle. (2 Marks)

(b) State the correct accounting treatment for this asset at the end of the year. 4

Q.10 Prepare Accounting Equation from the following 6

1. Commenced operations with a cash investment of ₹5,00,000, delivery trucks worth ₹12,00,000, and a commercial bank loan of ₹4,00,000.

2. Bought warehouse storage racks for ₹1,50,000, paying ₹50,000 cash immediately, with the remaining balance on credit from Steel Craft Corp.

3. Provided transport services for an export client on credit and issued a total bill of ₹90,000. The direct operating fuel and labour costs incurred for this journey were ₹55,000 (paid fully in cash).

4. Paid Steel Craft Corp. ₹98,000 in cash to clear the outstanding balance. They allowed a prompt settlement cash discount of ₹2,000.

5. The owner withdrew a delivery truck worth ₹1,50,000 from the business for permanent personal use.

6. Received ₹40,000 cash from the export client mentioned in transaction (3). Simultaneously, recorded depreciation of ₹35,000 on the remaining delivery trucks.

Subject: Economics

No. of questions: 10

M.M. 25

- Q1. Is the demand for the following elastic, moderate elastic, inelastic? Give reason. (2)
- a) Demand for petrol
 - b) Demand for textbooks
 - c) Demand for cars
 - d) Demand for milk
- Q2. Describe the assumption which is made to determine the consumer's equilibrium position. (2)
- Q3. Write two features of PPC. (2)
- Q4. Price elasticity of demand for flour is equal to unity and a household demands 40 kg of flour when the price is Rs. 1 per kg. At what price will the household demand 36 kg of flour? (2)
- Q5. The quantity demanded of a good at a price of Rs. 10 per unit is 40 units. Its price elasticity of demand is -2. Its price falls by Rs, 2/- per unit. Calculate its quantity demanded at the new price. (2)
- Q6. What happens to the budget set if both the prices as well as the income double? (3)
- Q7. Suppose a consumer can afford to buy 6 units of good 1 and 8 units of good 2 if she spends her entire income. The prices of the two goods are Rs 6 and Rs 8 respectively. How much is the consumer's income? (3)
- Q8. How many chocolates will a consumer have, if they are available free of cost? (3)
- Q9. State with reasons if the following statements are true or false: (3)
- 1) At a grand family get-together party you go on eating and eating since you have not to pay.
 - 2) As we consume more units of a commodity, our total utility from its consumption Keeps falling.
- Q10. Explain three determinants of demand for a commodity. (3)

Project Work

- a) Make a project on OPEC. Follow the instructions given below

Guidelines for Project Work in Economics (Class XI) The objectives of the project work are to enable learners to: • probe deeper into theoretical concepts learnt in classes XI • analyse and evaluate real world economic scenarios using theoretical constructs and arguments • demonstrate the learning of economic theory • follow up aspects of economics in which learners have interest • develop the communication skills to argue logically

The expectations of the project work are that: • learners will complete Two projects • project should be of 3,500-4,000 words (excluding diagrams & graphs), preferably hand-written • it will be an independent, self-directed piece of study.

Scope of the project: Learners may work upon the following lines as a suggested flow chart: Choose a title/topic Collection of the research material/data Organization of material/data Present material/data Analysing the material/data for conclusion Draw the relevant conclusion Presentation of the Project Work
11

Expected Checklist: • Introduction of topic/title • Identifying the causes, consequences and/or remedies • Various stakeholders and effect on each of them • Advantages and disadvantages of situations or issues identified • Short-term and long-term implications of economic strategies suggested in the course of research • Validity, reliability, appropriateness and relevance of data used for research work and for presentation in the project file • Presentation and writing that is succinct and coherent in project file • Citation of the materials referred to, in the file in footnotes, resources section, bibliography etc.

Subject: History

No. of questions: 10

M.M. 25

Q1. What was Genghis Khan's original childhood birth name before he assumed supreme leadership of the Mongol tribes? 1

- (A) Temujin
- (B) Jochi
- (C) Ogedei
- (D) Tolui

Q2. The supreme assembly of Mongol chieftains where critical military and political strategies were decided was known as: 1

- (A) Yasa
- (B) Yam
- (C) Quriltai
- (D) Tama

Q3. The rapid dynamic communication and postal system created by the Mongols to link their vast empire across Eurasia was named: 1

- (A) Paiza
- (B) Yam
- (C) Ulus
- (D) Nayanyan

Q4. The term 'Yasa' refers to which key structural concept that evolved under Genghis Khan's successors? 1

- (A) A tax exemption bracket
- (B) An administrative code of laws and imperial decrees
- (C) A horse-breeding manual
- (D) A religious shamanic path

Q5. Genghis Khan restructured his military divisions based on which framework to consciously break up old tribal identities? 1

- (A) Regional lineage brackets
- (B) A strict decimal system (units of 10s, 100s, 1000s)
- (C) Religious faith lines
- (D) Trade guild memberships

Std. XI Worksheet 4

Q6. Explain why nomadic groups like the Mongols were highly dependent on trade with neighboring settled agrarian societies. 3

Q7. Why did Genghis Khan systematically fragment the traditional tribal groupings into new, diverse military divisions? 3

Q8. "If history relies upon written records produced by city-based literati, nomadic societies will always receive a hostile representation." Critically explain this statement. 3

Q9. Highlight the pluralistic nature of the Mongol Empire by discussing their unique policies toward different religions and ethnicities. 3

Q10. Trace the rise of Genghis Khan. Analyze how he transformed fractured, warring steppe clans into a unified military machine capable of establishing a vast transcontinental empire. 8

Subject: Political Science

No. of questions: 10

M.M. 25

- | | | |
|------|--|---|
| Q.1 | Do you think studying Political Theory is like studying mathematics? Give reasons for your answer. | 1 |
| Q.2 | What do you understand by Civil Liberty? | 1 |
| Q.3 | Define Social Equality. | 1 |
| Q.4 | Is Political Science an Art? Comment. | 2 |
| Q.5 | What do you understand by equal opportunities for all? | 2 |
| Q.6 | Explain the Marxist View of Equality. | 2 |
| Q.7 | What is meant by social constraints? Are constraints of any kind necessary for enjoying freedom? | 2 |
| Q.8 | Discuss the kinds of Liberty. | 4 |
| Q.9 | Describe the main safeguards for the maintenance of Liberty. | 4 |
| Q.10 | Describe John Rawls's Theory of justice. | 6 |

Subject: Psychology

No. of questions: 10

M.M. 25

- Q1. Ravi consistently interprets neutral social media comments as criticism, leading to anxiety. This behavior is best understood through: 1
- a) Cognitive approach
 - b) Behavioural approach
 - c) Gestalt approach
 - d) Social approach
- Q2. Assertion (A): Reliability and validity are essential characteristics of psychological tests. Reason (R): Without them, test results may be inaccurate or inconsistent. 1
- a) Both A and R are true, and R is correct explanation
 - b) Both A and R are true, but R is not an Explanation of A
 - c) A true, but R is false
 - d) A false, R true

Case Study

Dr. Mehta, a psychologist, wanted to study the relationship between academic stress, career anxiety, family expectations, and emotional wellbeing among senior secondary school students. She selected 500 students from different schools across urban and rural areas.

To gather data, Dr. Mehta prepared a structured questionnaire that included questions related to study habits, parental pressure, sleep patterns, peer competition, and future career concerns. The questionnaire was administered uniformly to all participants.

After collecting responses, she analysed patterns of stress and adjustment among students from different backgrounds. She ensured that participation was voluntary, students were informed about the purpose of the research, confidentiality was maintained, and responses were used only for academic purposes.

Dr. Mehta used the findings to identify major psychological concerns affecting adolescents and suggested school-based interventions for stress management.

- Q3. Identify and explain the method of enquiry used by Dr. Mehta. 2
- Q4. Explain any two ethical principles followed in this research. 2
- Q5. Why is scientific survey research considered more reliable than common sense assumptions while studying adolescent stress? 2
- Q6. While preparing for her final examination, Ananya feels nervous and worried about failure. At the same time, she motivates herself by recalling her previous success and regains confidence. Which psychological concept is reflected in this situation? Explain it briefly. 2

Std. XI Worksheet 4

- Q7. A psychologist finds that sleep deprivation reduces students' concentration and academic performance. Based on this, she recommends proper sleep schedules and stress-management techniques to help students improve their behavior and performance. Which goal of scientific enquiry is reflected in this situation? Explain briefly. 2
- Q8. Rohan's school counselor wants to assess his aptitude, personality traits, and emotional adjustment before suggesting suitable career options. For this purpose, the counsellor uses standardized tools that provide objective and measurable results. Identify the method being used and explain any two important characteristics of this method. 3
- Q9. Explain the Bronfenbrenner's Model of Development. 5
- Q10. Evaluate psychology as a discipline by explaining its nature, goals, and scientific approach. 5

Activity Work

“Career Through Psychology Lens”

Interview 2 adults about their career choices.

Ask:

- What influenced their decision?
- Role of motivation
- Family/social factors

Conclude

How do psychological factors affect career decisions?

Subject: Physical Education

No. of questions: 10

M.M. 25

Chapters: 1. Changing Trends & Career in Physical Education, 2. Olympic Value Education, 3. Yoga

1. Define Health and Physical Fitness. (2)
2. Name any four career options related to sports. (2)
3. Explain Olympic Motto with examples. (2)
4. Define Yoga and Yogic Kriyas. (2)
5. What do you understand by Olympic Ethics? (2)
6. Explain the importance of Physical Education in schools. (3)
7. Write about the significance of Olympic Games. (3)
8. Explain the procedure and benefits of Padmasana. (3)
9. Write any three misconceptions about Yoga. (3)
10. Explain the role of Yoga for stress management. (3)

Subject: Home Science

No. of questions: 10

M.M. 25

Q1. Choose the correct option:

1

Which nutrient is mainly responsible for giving energy?

- i) Vitamins
- ii) Carbohydrates
- iii) Minerals
- iv) Water

Q2. Define self-awareness.

2

Q3. Describe one real-life situation where Home Science skills are essential.

2

Q4. What is a balanced diet?

2

Q5. State any two causes of unhealthy eating habits among teenagers.

2

Q6. Explain the importance of communication skills in maintaining relationships.

2

Q7. Describe the physical and emotional changes that occur during adolescence.

3

Q8. Explain the importance of nutrients in maintaining body functions and growth.

3

Q9. Discuss any three ways to improve self-confidence and self-esteem.

3

Q10. Activity-based: Prepare a “Healthy Lifestyle Diary” for one week. Record your daily food intake, physical activity, sleeping hours, and one healthy habit followed each day.

5

Subject: Painting

No. of questions: 15

M.M. 15

Choose the correct answer from the following:

(1x15=15)

1. Prehistoric art belongs to the period before:
 - a) Agriculture
 - b) Writing system
 - c) Metal tools
 - d) Trade
2. The earliest examples of prehistoric paintings in India are found in:
 - a) Ajanta Caves
 - b) Bhimbetka Rock Shelters
 - c) Ellora Caves
 - d) Sanchi Stupa
3. Bhimbetka Rock Shelters are located in:
 - a) Uttar Pradesh
 - b) Rajasthan
 - c) Madhya Pradesh
 - d) Bihar
4. Prehistoric paintings were mainly made using:
 - a) Oil paints
 - b) Natural colours from minerals and plants
 - c) Acrylic colours
 - d) Ink pens
5. Which colours were commonly used in prehistoric paintings?
 - a) Red and white
 - b) Purple and pink
 - c) Blue and silver
 - d) Golden and black
6. The main subjects of prehistoric paintings were:
 - a) Modern cities
 - b) Hunting and daily life scenes
 - c) Political leaders
 - d) Industrial machines
7. Prehistoric humans painted mostly on:
 - a) Cloth
 - b) Wooden panels
 - c) Cave walls and rocks
 - d) Glass surfaces

Std. XI Worksheet 4

8. Which period is associated with cave paintings?
- a) Paleolithic Age
 - b) Modern Age
 - c) Gupta Period
 - d) Mughal Period
9. Animals shown in prehistoric paintings include:
- a) Elephants and deer
 - b) Cars and trains
 - c) Aircrafts
 - d) Buildings
10. The purpose of prehistoric paintings was mainly:
- a) Decoration only
 - b) Recording daily activities and beliefs
 - c) Advertising
 - d) Political campaigns
11. Which of the following is a characteristic of prehistoric art?
- a) Abstract modern forms
 - b) Realistic depiction of nature and animals
 - c) Digital effects
 - d) Perspective drawing
12. The discovery of Bhimbetka caves was made by:
- a) Nandalal Bose
 - b) V. S. Wakankar
 - c) Abanindranath Tagore
 - d) Raja Ravi Varma
13. Prehistoric art gives information about:
- a) Ancient human life
 - b) Space science
 - c) Industrial development
 - d) Computer technology
14. Which material was used for drawing in prehistoric times?
- a) Synthetic brushes
 - b) Stone tools and fingers
 - c) Sketch pens
 - d) Ball pens
15. The prehistoric paintings of India are important because they:
- a) Show fashion trends
 - b) Reflect early human creativity and culture
 - c) Describe modern technology
 - d) Explain political systems