

DAV MODEL SCHOOL, KSTP ASANSOL
SESSION: 2024-25
HOLIDAY HOMEWORK WORKSHEET 1

CLASS XI **SUBJECT ENGLISH**
NAME _____ **SECTION** _____

I. Read the following passage carefully and answer the questions that follow:

A. It is common knowledge that school children are under great pressure to perform well in all fields, study ten subjects, play games and develop an impressive image. How do they manage? The skills, techniques and principles which they pick up while still young help them cope

B. Two of the twentieth century's finest minds have lamented that schools are not teaching the basics of personal excellence or the science of success. Edward De Bono: "Almost all of what a child learns at school after the age of ten is totally irrelevant to his need in later life. Most schools do not teach thinking at all." The serious thesis of this article is that management must be taught as a school subject. The weightiest argument is that children are managers

C. Many of the children are called upon to play directly three of the interpersonal roles: "Figurehead", "Leader" and "Liaison Officer". They do this while assisting teachers as monitors or class representatives or group leaders during educational tours and field work; while captaining teams on playgrounds; and while leading teams in quiz, debating and other competitions. Many more play these roles as surrogates

D. The decision role of "Entrepreneur" and "Resource Allocator" may only occasionally be assigned to children. However, it is worth noting that, according to a recent survey in Delhi, a monthly allocation of up to ₹1,000 is available as pocket money to school children. Therefore, school children too need to have control over money and develop a sense of budget. If we add to these financial resources, the resources of time, information and intellect available to children, the first two decision roles are not irrelevant to them.

E. If you cannot see children as managers, they are managers in the making: Many of the management habits (e.g., using a to-do list), management skills (e.g., sensitive listening), management attitudes and values are formed early in life. Personality theorists believe that it is extremely difficult to change personality traits, styles of thinking and habits of behaviour once these are formed.

F. As in language learning, where basic aspects of language like pronunciation and rhythm are extremely resistant to learning after puberty, good management habits, attitudes and values are difficult to acquire in adulthood. In the fifties, even in the educationally advanced countries such as the US, Algebra was thought to be too abstract to be taught even in senior schools.

Now it is taught from upper primary classes onwards in both educationally progressive and developing countries. Computer skills, lateral thinking and swimming, often felt to be forbidden by adults are easily learnt by children. In fact, both research evidence and specialists' beliefs strongly support the view that children's ability to learn skills like swimming and creative thinking is much more developed than adults. Equally important, complex organisms.

(a) learn what is necessary or pleasurable and

(b) adapt themselves in ways that will serve their needs and interests with amazing enthusiasm, ease and effectiveness.

[Answer the following questions, based on the passage above](#)

1. The reason for pressure on children is:

(A) common knowledge

(B) absence of skills

(C) choice between studies and games

(D) performance demanded in all fields

2. What according to some educationists is lacking in school teaching?

(A) Basics of personal excellence

(B) Science of success

(C) Thinking

(D) All of these

3. The sense of budget among children is an indication towards their capability of performing:

(A) interpersonal role

(B) decision role

(C) leading role

(D) informational role

4. The article advocates teaching as a subject in school.

(A) management

(B) creative thinking

(C) computer skills

(D) swimming

5. The term used for a detailed critical inspection/study in Para 4 is:

(A) intellect

(B) resource allocator

(C) survey

(D) budget

6. Which subject was considered to be too intangible to be taught in higher schools in the US?

(A) Science

(B) Algebra

(C) Computer

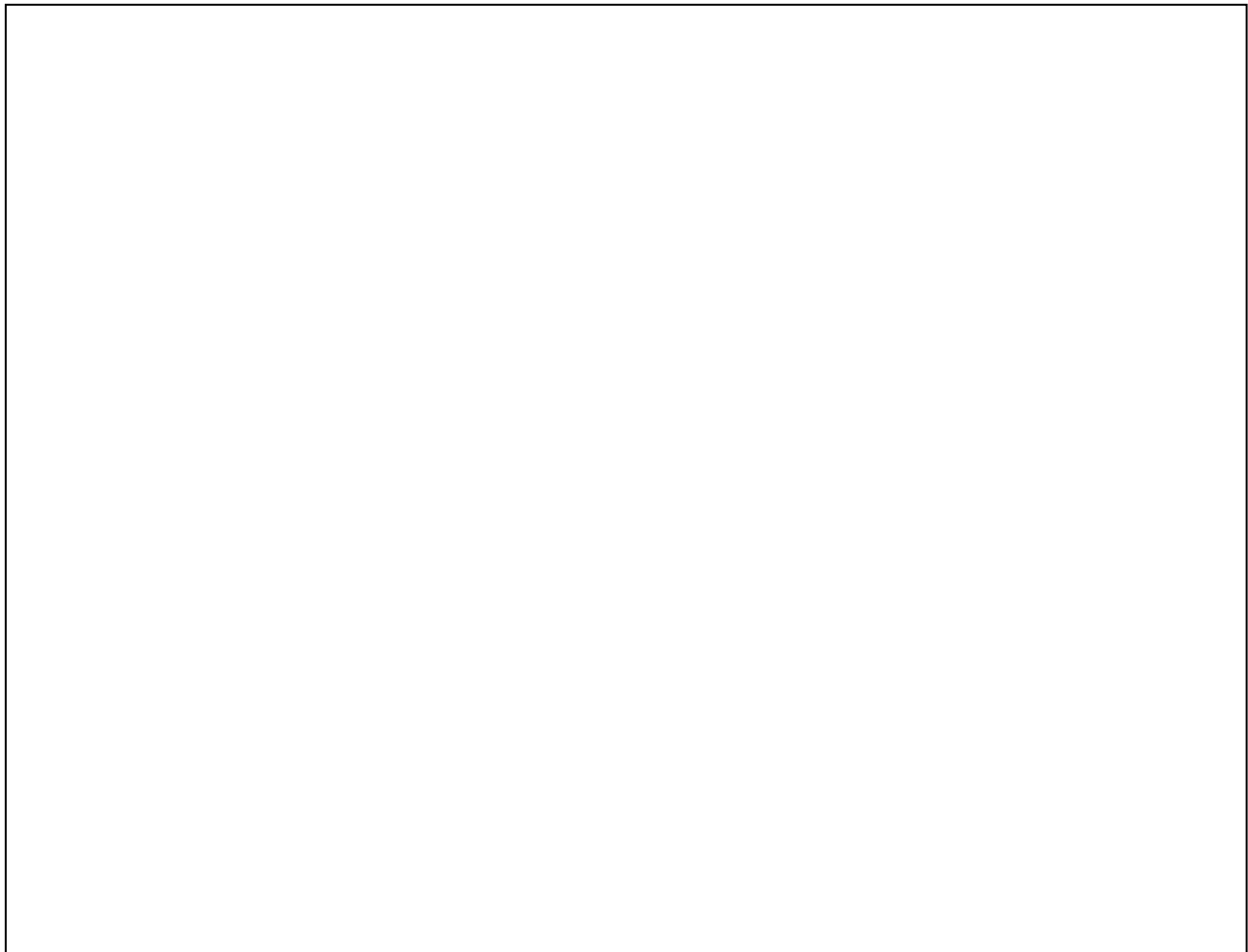
(D) Language skills

(B) Answer the following questions as briefly as possible: (Do any 4)

1. The weightiest argument is that children are
2. The skills....., and principles that children pick while they are young help them cope in life.
3. Children play directly three of the interpersonal roles: “Figurehead”, and “Liaison Officer”.
4. According to a recent survey in, a monthly allocation of up to ₹ 1,000 is available as pocket money to school children.
5. lateral thinking and swimming, often felt to be forbidden by adults are easily learnt by children

II.Creative Writing Skills

As Cultural Secretary of Ryan’s International School, Gurgaon, design a poster to announce the staging of a play in your school.



DAV MODEL SCHOOL, KSTP ASANSOL
SESSION: 2024-25
HOLIDAY HOMEWORK WORKSHEET 2

CLASS XI **SUBJECT ENGLISH**
NAME _____ **SECTION** _____

I. Choose the correct option.

i. How did the grandmother look?

- a. Old, Fat, Long
- b. Long, Fat, Slightly Bent
- c. Old, Short, Slightly Bent, Fat
- d. Slightly Bent, Fat

ii. How was the drum?

- a. Brand new
- b. Shabby
- c. Sound
- d. Dusty

iii. Mourad enjoyed being _____ more than anybody else.

- a. crazy
- b. alive
- c. funny
- d. None of the above

iv. Why couldn't Aram believe when he saw Mourad with the horse?

- a. Because Mourad was crazy
- b. Because they were poor to afford a horse
- c. Because he was sleepy
- d. Because he was dreaming

II . Answer the following questions:

a. The author's grandmother was a religious person. What are the different ways in which we come to know this?

b. Describe the changing relationship between the author and his grandmother. Did their feelings for each other change?

c. How did Aram know that the horse belonged to John Byro?

d. You will probably agree that this story does not have a breathless adventure and exciting action. Then what, in your opinion, makes it interesting?

III. Re arrange the following words to make meaningful sentences

a. trees/industry/on/the/is/oil/reliant.

b. acquire/do/kind/we/what/of/woods/goods/the/from

c. by/were/farmers/the/exploited/Indian/English/the

d. exorbitant/farmers/taxes/poor/pay/were/to/forced/the

e. a/ strong/ has/ animal/ affinity/ he /with

D.A.V. MODEL SCHOOL, KSTP, ASANSOL

HOLIDAY HOMEWORK (WORKSHEET 1)

SESSION: 2024-2025

SUBJECT: MATHEMATICS

CLASS: XI

Name _____ Roll No: _____ Section: _____

Objective type question

1. Order of the power set $P(A)$ of a set A of order n is equal to:

A. n

B. $2n$

C. 2^n

D. n^2

2. Which of the following two sets are equal?

A. $A = \{1, 2\}$ and $B = \{1\}$

B. $A = \{1, 2\}$ and $B = \{1, 2, 3\}$

C. $A = \{1, 2, 3\}$ and $B = \{2, 1, 3\}$

D. $A = \{1, 2, 4\}$ and $B = \{1, 2, 3\}$

3. The cardinality of the power set of $\{x: x \in \mathbb{N}, x \leq 10\}$ is _____.

A. 1024

B. 102

C. 2048

D. 2043

4. Write $X = \{1, 4, 9, 16, 25, \dots\}$ in set builder form.

A. $X = \{x: x \text{ is a set of prime numbers}\}$

B. $X = \{x: x \text{ is a set of whole numbers}\}$

C. $X = \{x: x \text{ is a set of natural numbers}\}$

D. $X = \{x: x \text{ is a set of square numbers}\}$

5. If A , B and C are any three sets, then $A \times (B \cup C)$ is equal to:

A. $(A \times B) \cup (A \times C)$

B. $(A \cup B) \times (A \cup C)$

C. $(A \times B) \cap (A \times C)$

D. None of the above

6. The range of the function $f(x) = 3x - 2$, is:

A. $(-\infty, \infty)$

B. $\mathbb{R} - \{3\}$

C. $(-\infty, 0)$

D. $(0, -\infty)$

7. Let $U = \{1, 2, 3, 4, 5, 6, 7, 8, 9, 10\}$, $P = \{1, 2, 5\}$, $Q = \{6, 7\}$. Then $P \cap Q'$ is:

A. P

B. Q

C. Q'

D. None

8. If $f(x) = x^3 - (1/x^3)$, then $f(x) + f(1/x)$ is equal to

- (a) $2x^3$ (b) $2/x^3$ (c) 0 (d) 1

9. Representation of set $A = \{x \mid x \in \mathbb{Z}, x^2 < 20\}$ in the roster form is

- (a) $\{1, 2, 3, \dots, 20\}$ (b) $\{1, 2, 3, 4\}$ (c) $\{0, 1, 2, 3, 4\}$ (d) $\{-4, -3, -2, -1, 0, 1, 2, 3, 4\}$

10. The set $\{-1, 1\}$ in the set builder form can be written as

- (a) $\{-1, 1\}$ (b) $\{x \in \mathbb{W} : x \leq 1\}$ (c) $\{x \in \mathbb{Z} : x \leq 1\}$
(d) $\{x : x \text{ is a solution of } x^2 = 1\}$

11. Let $A = \{2, 5\}$, then subsets of set A are $\phi, \{2\}, \{5\}, \{2, 5\}$, i.e. 4 subsets then the number of elements its power set contains are .

- (a) 4 (b) 42 (c) 10
(d) 2

12. For disjoint sets A and B, $n(A) = 3, n(B) = 5$, then $n(A \cap B)$ is

- (a) 0 (b) 3
(c) 5 (d) 8

13. If $[x]^2 - 5[x] + 6 = 0$, where $[\cdot]$ denotes the greatest integer function, then

- (a) $x \in [3, 4]$ (b) $x \in (2, 3]$ (c) $x \in [2, 3]$ (d) $x \in [2, 4)$

14. For disjoint sets A and B, $n(A) = 3, n(B) = 5$, then $n(A \cap B)$ is

- (a) 0 (b) 3 (c) 5 (d) 8

15. a statement of assertion (A) is followed by a statement of reason (R). Choose the correct answer out of the following choices.

- (a) Both A and R are true and R is the correct explanation of A. (b) Both A and R are true but R is not the correct explanation of A.
(c) A is true but R is false.
(d) A is false but R is true.

Assertion (A): The set $A = \{x : x \text{ is an even prime number greater than } 2\}$ is the empty set.

Reason (R): The set $B = \{x : x^2 = 4, x \text{ is odd}\}$ is not an empty set. 10. **Assertion (A): If $n(A) = 3, n(B) = 6$ and A B, then the number of elements in A B is** Reason (R): **If A and B are disjoint, then $n(A \cup B)$ is $n(A) + n(B)$.**

15. If $U = \{x : x \leq 10, x \in \mathbb{N}\}, A = \{x : x \in \mathbb{N}, x \text{ is prime}\}, B = \{x : x \in \mathbb{N}, x \text{ is even}\}$, write $A \cap B'$ in roster form

16. Let A, B and C be three sets such that $A \cup B = A \cup C$ and $A \cap B = A \cap C$. Show that $B = C$.

17. Let $U = \{1, 2, 3, 4, 5, 6, 8\}, A = \{2, 3, 4\}, B = \{3, 4, 5\}$. Show that $(A \cup B)' = A' \cap B'$ and $(A \cap B)' = A' \cup B'$.

18. . In an examination, 80% students passed in Mathematics, 72% passed in Science and 13% failed in both the subjects, if 312 students passed in both the subjects. Find the total number of students who appeared in the examination.

19. Two finite sets have m and n elements. The total number of subsets of the first set is 56 more than the total number of subsets of the second set. Find the values of m and n .

CASE BASE QUESTION

20. In a city of 56,000 people, following is the number of fans of players Rohit (R), Virat (V) and Dhoni (D):



Players	Number of Fans
Rohit	23,000
Virat	25,000
Dhoni	18,000
Rohit and Virat	12,000
Rohit and Dhoni	10,000
Virat and Dhoni	8,000
Rohit, Virat and Dhoni	3,000

Based on the above information, answer the following:

(i) How many people are fans of at least 2 players?
fans of exactly 1 player?

(ii) How many people are

(iii) How many people are fans of exactly 2 players?
follow R or V but not D?

(iv) How many people

DAV MODEL SCHOOL KSTP

HOLIDAY HOMEWORK

Worksheet – 1

CLASS – XI

SUB – PHYSICS

Q1. The de-Broglie wavelength associated with a particle of mass “m” and energy “E” is $h/\sqrt{2mE}$. The dimensional formula for Planck's constant is :

- 1) $[M^2L^2T^{-2}]$
- 2) $[M^1L^{-1}T^{-2}]$
- 3) $[M^1L^2T^{-1}]$
- 4) $[M^1L^1T^{-2}]$

Q2. The dimensional formula of latent heat is :

- 1) $[M^0L^1T^{-2}]$
- 2) $[M^1L^1T^{-2}]$
- 3) $[M^0L^2T^{-2}]$
- 4) $[M^1L^2T^{-2}]$

Q3. One main scale division of a vernier caliper is equal to m units. If nth division of main scale coincides with (n+1)th division of vernier scale, the least count of the vernier caliper is

- 1) $\frac{1}{n+1}$
- 2) $\frac{m}{n+1}$
- 3) $\frac{n}{n+1}$
- 4) $\frac{m}{n(n+1)}$

Q4. A, B, C and D are four different physical quantities having different dimensions. None of them is dimensionless. But we know that the equation $AD = C \ln(BD)$ holds true. Then which of the combination is **not** a meaningful quantity ?

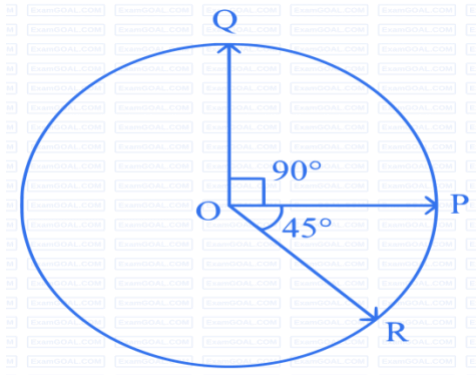
- 1) $A^2 - B^2C^2$
- 2) $\frac{A-C}{D}$
- 3) $\frac{A}{B} - C$
- 4) $\frac{C}{BD} - \frac{AD^2}{C}$

Q5. The resultant of two vectors \vec{A} and \vec{B} is perpendicular to \vec{A} and its magnitude is half that of \vec{B} . The angle between vectors \vec{A} and \vec{B} is _____°.

Q6. If \vec{a} and \vec{b} makes an angle $\cos^{-1}(\frac{1}{5})$ with each other,

then $|\vec{a} + \vec{b}| = \sqrt{2}|\vec{a} - \vec{b}|$ for $|\vec{a}| = n|\vec{b}|$ The integer value of n is _____.

Q7. Three vectors \vec{OP}, \vec{OQ} and \vec{OR} each of magnitude A are acting as shown in figure. The resultant of the three vectors is $A\sqrt{x}$. The value of x is _____.



Q8. For three vectors $\vec{A} = (-x\hat{i} - 6\hat{j} - 2\hat{k}), \vec{B} = (-\hat{i} + 4\hat{j} + 3\hat{k})$ and $\vec{C} = (-8\hat{i} - \hat{j} + 3\hat{k})$, if $\vec{A} \cdot (\vec{B} \times \vec{C}) = 0$, then value of x is _____.

Q9. If two vectors \vec{A} and \vec{B} having equal magnitude R are inclined at angle θ , then

- 1) $|\vec{A} + \vec{B}| = 2R \cos(\theta/2)$
- 2) $|\vec{A} - \vec{B}| = 2R \cos(\theta/2)$
- 3) $|\vec{A} - \vec{B}| = \sqrt{2}R \sin(\theta/2)$
- 4) $|\vec{A} + \vec{B}| = 2R \sin(\theta/2)$

Q10. A vector in x-y plane makes an angle of 30° with y-axis. The magnitude of y-component of vector is $2\sqrt{3}$. The magnitude of x-component of the vector will be :

- 1) $\sqrt{3}$
- 2) 6
- 3) 2
- 4) $\frac{1}{\sqrt{3}}$

Q11. When vector $\vec{A} = 2\hat{i} + 3\hat{j} + 2\hat{k}$ is subtracted from vector \vec{B} , it gives a vector equal to $2\hat{j}$. Then the magnitude of vector \vec{B} will be :

- 1) 3
- 2) $\sqrt{33}$
- 3) $\sqrt{6}$
- 4) $\sqrt{5}$

Q12. The Least count of vernier Callipers is defined as :-

- 1) Ratio of Main scale division and vernier scale division
- 2) Difference between main scale and vernier scale division
- 3) Product of main scale division and vernier scale division
- 4) Sum of a main scale division and vernier scale division

Q13. Planck's Constant (h); Gravitational constant (G) and Speed of light (c) are the three fundamental constants. Which of the following combinations of these has the dimensions of length

- 1) $\sqrt{\frac{hG}{c^3}}$
- 2) $\sqrt{\frac{hG}{c^5}}$
- 3) $\frac{\sqrt{hG}}{c}$
- 4) $\sqrt{\frac{Gc}{h^3}}$

Q15. Two forces of 4 N and 3 N act on a particle at the same time. The particle's net force is equal to:

- 1) 1N
- 2) 7N
- 3) 5N
- 4) Between 1N and 7N

Q16. State the principle of Homogeneity ?

Q17. Obtain the expression of Time period (T) in terms of length (l) and gravitational acceleration (g) using dimensional analysis.

Q18. Check whether the equation is correct or not using principle of homogeneity.

- 1) $S = ut + \frac{1}{2} at^2$
- 2) $\frac{dV}{dt} = \frac{\pi p a^4}{8l\eta}$

Where; V is volume

t is time

p is pressure

a is radius

l is length

η is co-efficient of viscosity

Q19. State the limitations and applications of principle of Homogeneity.

Q20. Differentiate between :-

- 1) Speed and velocity
- 2) Distance and Displacement
- 3) Scalars and vectors

Q21. Write the number of significant figures in each of the following :-

- 1) 4308
- 2) 40.05
- 3) 470,000
- 4) 4.00
- 5) 0.0500
- 6) 36.7 m
- 7) 0.006606 s
- 8) 2,002 kg
- 9) 306,490,000 people
- 10) $101.2 + 18.702 = ?$
- 11) $202.88 - 1.013 = ?$
- 12) $76.4 \times 180.4 = ?$
- 13) $934.9 \div 0.00455 = ?$
- 14) Round 4.7475 to 4 significant figures
- 15) Round 4.7465 to 4 significant figures

Q22. If an object is dropped from a height of 5m then with what velocity it hits the ground.

Q23. Draw the graphs for the following :-

- 1) Position vs time graph for uniform motion
- 2) Position vs time graph for uniformly accelerated motion
- 3) Velocity vs time graph for uniform motion
- 4) Velocity vs time graph for uniformly accelerated motion
- 5) Acceleration vs time graph for uniformly accelerated motion

Q24. Derive the 3 equations of motion graphically.

Q25. A drunkard walking in a narrow lane takes 5 steps forward and 3 steps backward, followed again by 5 steps forward and 3 steps backward, and so on. Each step is 1 m long and requires 1 s. Determine how long the drunkard takes to fall in a pit 13 m away from the start.

DAV MODEL SCHOOL, KSTP, ASANSOL
SESSION: 2024-25
HOLIDAY HOMEWORK WORKSHEET

SUBJECT: CHEMISTRY

CLASS: XII

Name: _____ **Sec:** _____ **Roll No:** _____

1. Which one of the following will have largest number of atoms?

- (i) 1 g Au (s)
- (ii) 1 g Na (s)
- (iii) 1 g Li (s)
- (iv) 1 g of Cl₂(g)

Ans. _____

2. Law of Multiple Proportions was given by:

- (a) Joseph Proust
- (b) Gay Lussac
- (c) Avogadro
- (d) John Dalton

Ans. _____

3. A measured temperature on Fahrenheit scale is 200F. What will this reading be on the Celsius Scale?

- (a) 40 °C
- (b) 94 °C
- (c) 93.3 °C
- (d) 30 °C

Ans. _____

4. What is the normality of 1M H₃PO₄ solution?

- (a) 0.5 N
- (b) 1.0 N
- (c) 2.0 N
- (d) 3.0 N

Ans. _____

5. The sulphate of atom M contains 9.87% of M. This sulphate is isomorphous with ZnSO₄. 7H₂O. The atomic weight of M is

- (a) 40.3

- (b) 36.3
- (c) 24.3
- (d) 11.3

Ans. _____

6. Pressure has the same dimension as _____

- (a) energy per unit volume
- (b) energy
- (c) force per unit volume
- (d) force

Ans. _____

7. Boron exists as two stable isotopes; ^{10}B (19%) and ^{11}B (81%). Find out the average atomic weight of boron in the periodic table

- (a) 10.0
- (b) 11.2
- (c) 10.2
- (d) 10.8

Ans. _____

DIRECTION: For question numbers 7 and 8, two statements are given- one labelled Assertion (A) and the other labelled Reason (R). Select the correct answer to these questions from the codes (a), (b), (c) and (d) as given below:

- (a) Both A and R are true and R is correct explanation of the A.
- (b) Both A and R are true but R is not the correct explanation of the A.
- (c) A is true but R is false.
- (d) Both A and R are false.

8. **Assertion :** 1.231 has three significant figures.

Reason : All numbers right to the decimal point are significant.

Ans. _____

9. **Assertion :** One atomic mass unit is defined as one twelfth of the mass of one carbon – 12 atom.

Reason : Carbon-12 isotope is the most abundant isotope of carbon and has been chosen as standard.

Ans. _____

10. **Assertion :** The empirical mass of ethene is half of its molecular mass.

Reason : The empirical formula represents the simplest whole number ratio of various atoms present in a compound.

Ans. _____

11. The volume of the solution changes with a change in the temperature. Then, would the molality of the solution be affected by the temperature? Give the reason for your answer.

Ans. _____

12. Define the law of multiple proportions. Explain it with the two examples.

Ans. _____

13. How much potassium chlorate should be heated to produce 2.24 L of oxygen at NTP?

Ans. _____

14. Calculate the weight of lime CaO obtained by heating 200kg of 95% pure limestone CaCO_3

Ans. _____

15. 4 litres of water added to 2L of 6 molar HCl solution. What is the molarity of the resulting solution?

Ans. _____

16. What volume of 10M HCl and 3M HCl should be mixed to obtain 1L of 6M HCl solution?

Ans. _____

17. (a) Differentiate between molarity and molality for a solution.
How does a change in temperature influence their values?

Ans. _____

(b) The density of 3 molal solution of NaOH is 1.110 g mL^{-1} . Calculate the molarity of the solution.

Ans. _____

18. Calcium carbonate reacts with aqueous HCl to give CaCl_2 and CO_2 according to the reaction given below:



What mass of CaCl_2 will be formed when 250 mL of 0.76 M HCl reacts with 1000 g of CaCO_3 ? Name the limiting reagent. Calculate the number of moles of CaCl_2 formed in the reaction.

Ans. _____

19. Read the passage given below and answer the following questions:

After having some idea about the terms atoms and molecules, it is appropriate here to understand what do we mean by atomic and molecular masses. One atomic mass unit is defined as a mass exactly equal to one-twelfth of the mass of one carbon – 12 atom. Molecular mass is the sum of atomic masses of the elements present in a molecule. It is obtained by multiplying the atomic mass of each element by the number of its atoms and adding them together. Some substances, such as sodium chloride, do not contain discrete molecules as their constituent units. In such compounds, positive (sodium ion) and negative (chloride ion) entities are arranged in a three dimensional structure. The mole, symbol mol, is the SI unit of amount of substance. One mole contains exactly $6.02214076 \times 10^{23}$ elementary entities. This number is the fixed numerical value of the Avogadro constant, N_A , when expressed in the unit mol^{-1} and is called the Avogadro

number. The amount of substance, symbol n , of a system is a measure of the number of specified elementary entities.

a) Define mole.

Ans. _____

b) Calculate the mass of one molecule of benzene.

Ans. _____

c) Write the difference between molecular mass and formal mass with examples.

Ans. _____

20. i) Calculate the percentage composition of the following compounds

a) $\text{Mg}(\text{OH})_2$

b) $\text{Na}_2\text{CO}_3 \cdot 10\text{H}_2\text{O}$

ii) An organic compound contains C = 16.27%, H = 0.677%, and Cl = 72.2%. Its molecular mass is 147.5 amu. Find its molecular formula.

Ans. _____

DAV MODEL SCHOOL, KSTP, ASANSOL
HOLIDAY HOME WORK
SESSION :- 2024-25

Class:- XI

Sub:- Biology

A. Choose the correct alternative from the below mentioned choices:-

1. Scientific names of plants are based on agreed principles and criteria provided by
a) ICBN b) IUCN c) ICZN d) WWF
2. Which among the following is the correct order of hierarchal categories.
a) Species, genus, family, order, class, phylum.
b) Species, genus, class, phylum, order, family
c) Family, order, family, species, genus, phylum
d) Species, genus, order, family, class, phylum.
3. Which of the following is no correctly matched?
(a) Amoeba - Cyanobacteria (b) Amoeba – Protozoa
(c) Gonyaulax – Dinoflagellates (d) Albugo – Chrysophytes
4. Shell of Diatoms is made up of :
(a) CaCO₃ (b) silica
(c) magnesium carbonate (d) calcium phosphate
5. A dikaryon is formed when
(a) Meiosis is arrested (b) The two haploid cells do not fuse immediately
(c) Cytoplasm does not fuse (d) None of the above

DIRECTION: In the following questions, a statement of Assertion(A) is followed by a statement of Reason(R).Mark the correct choice as:

- A. Both A and R are true and R is the correct explanation.
- B. Both A and R are true and R is not the correct explanation.
- C. A is true R is false.
- D. A is false R is true.

6. **Assertion:** Taxonomy is important in agriculture.

Reason: The term taxonomy was coined by De Condolle.

7. **Assertion:** Slime moulds are commonly called fungus animals

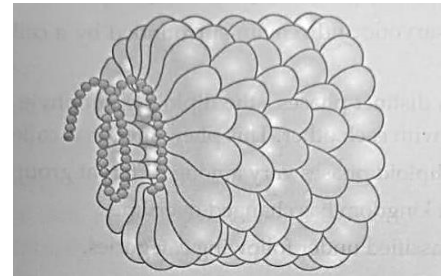
Reason: Slime moulds share the characters of both animals and fungi.

8. **Assertion:** In four kingdom system fungi are not properly placed.

Reason: All single-celled eukaryotes are placed under Protista.

9. Study the given diagram and answer the questions.

i) Identify the organism



ii) What type of genetic material is present?

iii) Name one plant disease caused by the organism in the diagram.

10. Distinguish between Taxonomy and Systematics.

11. Read the following paragraph and answer the questions given below:-

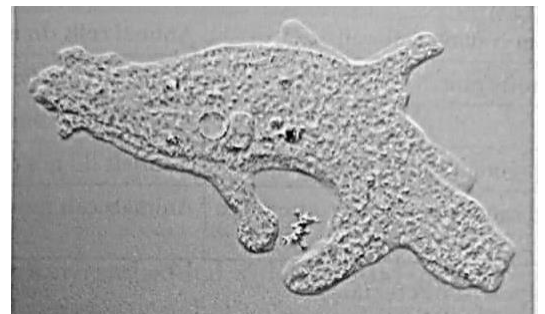
Systematics is a branch of science which deals with the study of classification, nomenclature, identification and evolutionary history of organisms. Linnaeus also known as father of taxonomy and published his book on Systema Naturae where the classification of organisms are based on taxonomy. There are two types of names of organisms, one is vernacular common name and other is scientific name . scientific names are given according to certain rules and are followed by biologists all over the world. Various international codes have been established to make name common around the world.

a) Which code is involved in the naming of the animals?

b) What is Nomenclature?

12. Study the diagram given and answer the questions:-

i) Name the organism shown in the given diagram.



ii) List one feature of the kingdom to which it belongs.

iii) To which kingdom does it belong?

iv) How do this organism capture their prey?

13. Draw a labelled diagram of bacterial cell.

14. i) How does a nucleoid differ from nucleus?

ii) What are Plasmids? Write their different forms.

iii) What are prions?

15. Give a comparative account of the classes of Kingdom Fungi under the following :- i) Mode of nutrition, ii) Mode of reproduction.

16. i) Polluted water bodies have usually very high abundance of plants like *Nostoc* and *Oscillatoria*. Give reason.

ii) On what basis the Fungi were earlier placed in the plant Kingdom?

iii) Which group of fungi is called algal fungi?

17. Suppose you accidentally find an old preserved permanent slide without a label. In your effort to identify it, you place the slide under microscope and observe the following features: unicellular, well defined nucleus, biflagellate-1 flagella lying longitudinally and the other transversely. What would you identify it as? To which kingdom does it belong?

18. How is the five kingdom classification advantageous over the two kingdom classification?

19. In the 5 kingdom system of Whittaker, how many kingdoms are eukaryotes?

DAV MODEL SCHOOL KSTP ,ASANSOL

PRACTICE WORKSHEET – 1 (SESSION 2024-2025)

CLASS – XI

SUBJECT – ACCOUNTANCY

Name of the Student: _____ RollNo: _____ Section: _____

QUESTIONS

1) Identify the accounting principle that guides the recognition of expenses when they are incurred, regardless of when the payment is made.

2) Classify the accounting concept that states that transactions should be recorded at their original cost

3) Determine the accounting assumption that assumes the business will continue to operate indefinitely unless there is evidence to the contrary.

4) Decide the accounting convention that requires assets to be recorded at their historical cost rather than their current market value.

5) Identify the accounting standard that provides specific rules and guidelines for the preparation of financial statements.

6) Classify the accounting concept that emphasizes the separation of the business entity from its owners for financial reporting purposes.

7) Determine the accounting principle that dictates that revenue should be recognized when it is earned, not when cash is received.

8) Identify the accounting assumption that assumes a stable currency for financial reporting purposes.

9) Classify the accounting convention that allows for the depreciation of long-term assets over their useful lives.

10) Determine the accounting standard that governs the presentation of financial statements for different types of entities.

11) Identify the accounting concept that requires the use of estimates and judgments in preparing financial statements.

12) ABC Company purchased machinery for \$50,000. The estimated useful life of the machinery is 5 years, and the salvage value is \$5,000. Calculate the annual depreciation expense using the straight-line method. Enterprises sold goods worth \$20,000 on credit to a customer. The terms of the sale are 2/10, net 30. If the customer pays within 10 days, how much will they need to pay?

13) Case Study 1: ABC Retail is a small business specializing in selling electronics. The owner, John, is considering purchasing new inventory to meet customer demand. Analyze the financial implications of purchasing inventory for ABC Retail, including considerations such as cost, pricing, and profit margins. i) Calculate the total cost of purchasing 100 units of inventory if the cost per unit is \$50. ii) Determine the selling price per unit if John wants to markup the cost by 25%. iii) Estimate the total revenue generated if all units are sold at the selling price. iv) Calculate the gross profit margin if the total revenue generated is \$7,500. v) Analyze the impact of the gross profit margin on the profitability of ABC Retail.

14) Case Study 2: LMN Services is a consulting firm planning to invest in new office equipment to improve efficiency. i) Evaluate the financial implications of investing in office equipment for LMN Services, including considerations such as initial investment, depreciation, and return on investment. ii) Determine the initial investment required to purchase new office equipment if the cost is \$50,000. iii) Calculate the annual depreciation expense using the straight-line method if the equipment has a useful life of 5 years and no salvage value. iv) Estimate the total depreciation expense over 3 years. v) Analyze the impact of depreciation on the company's financial statements. vi) Evaluate the return on investment if the equipment generates additional revenue of \$20,000 per year

DAV MODEL SCHOOL KSTP ,ASANSOL
PRACTICE WORKSHEET -2 (SESSION : 2024 – 2025)
CLASS XI SUBJECT: ACCOUNTACY

Name: _____ **Roll No:** _____ **Section:** _____

1) Reflect on the ethical considerations in financial reporting, focusing on transparency and integrity.

2) Evaluate the impact of changes in accounting standards on financial statement users.

3) Analyze the influence of accounting concepts like going concern and consistency on financial statement preparation.

4) Compare different methods of inventory valuation, highlighting their effects on reported profits.

5) Calculate net income given revenue, expenses, and taxes for a specific period.

6) Compute return on investment (ROI) for a capital project using the ROI formula.

7) Assess the implications of the matching concept on financial statement accuracy.

DAV MODEL SCHOOL, KSTP, ASANSOL
HOLIDAY HOMEWORK
(WORKSHEET-I)

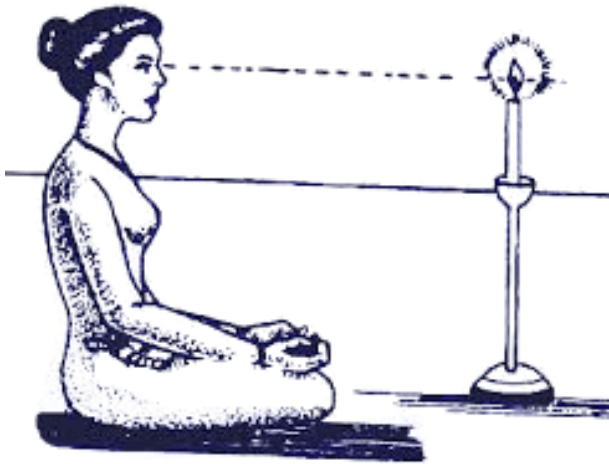
SUB- PHYSICAL EDUCATION (048)

CLASS: XI

Name: _____ Class: _____ Section : _____

(SECTION -A)

Q1. Identify the Yogic Kriya:



- | | |
|-----------|------------|
| a) Dhauti | b) Trataka |
| c) Basti | d) Nauli |

Q2. The National Institute of Sports was inaugurated in

- | | |
|---------|---------|
| a) 1951 | b) 1961 |
| c) 1982 | d) 1973 |

Q3. Body Mass Index measures the

- | | |
|-----------------------------------|-----------------------------|
| a) Health of an Individual | b) Fitness of an Individual |
| c) Fat component of an Individual | d) Weight of an Individual |

Q4. The first president of IOA was _____

- | | |
|-----------------------------|-----------------------|
| a) Sir Dorabji Tata | b) Baron de Coubertin |
| c) Maharaja Bhupender Singh | d) Dr. A.G. Noren |

Q5. Given below are the two statements labeled Assertion (A) and Reason (R).

Assertion (A) : Pranayama is also known as yogic breathing

Reason (R) : Neti Kriya is a cleaning exercise

In the context of the above two statements, which one of the following is correct?

- a) Both (A) and (R) are true and (R) is the correct explanation of (A).
- b) Both (A) and (R) are true, but (R) is not the correct explanation of (A).
- c) (A) is true, but (R) is false.
- d) (A) is false, but (R) is true

Q6. Disability is caused by _____

- a) Heredity
- b) Accidents
- c) Balanced Diet
- d) Both a & b

Q7. Which institute of Physical Education was established in the year 1957?

- a) NIS
- b) LNIPE
- c) SAI
- d) IOA

Q8.



The device intends to measure-

- a) WH ratio
- b) Skin fold test
- c) BMI value
- d) Muscles girth.

Q9. Occupational wellness is related to _____

- a) Fitness
- b) Job
- c) Meditation
- d) Environment

Q10. Given below are two statements labeled Assertion (A) and Reason (R) (1)

Assertion (A) : Physical fitness is the capacity to meet the present and potential physical challenges of life with success.

Reason (R) : Strength, speed, endurance flexibility

are the main components of it. In the context of the above two statements, which one of the following is correct?

- a) Both (A) and (R) are true and (R) is the correct explanation of (A).
- a) Both (A) and (R) are true, but (R) is not the correct explanation of (A).
- b) (A) is true, but (R) is false.
- c) (A) is false, but (R) is true

Q11. The Olympic Flag was used for the first time at _____

- a) 1896, Athens, Greece
- b) 1920, Antwerp, Belgium
- c) 1924, Paris, France
- d) 1928, Amsterdam, Netherlands

Q12. Aim of Adaptive Physical Education is to deal with _____

- a) Athletes
- b) Children with disabilities
- c) Adults
- d) None of the above

Q13. The International Day of Yoga is observed on _____

- a) 21 July
- b) 21 June
- c) 3 October
- d) 5 September

Q14. The ability to work for a long time without getting fatigue is _____

- a) Strength
- b) Flexibility
- c) Endurance
- d) Speed

Q15. Fit India Movement was launched on _____

- a) 28th August 2018
- b) 29th August 2019
- b) 28th August 2020
- d) 29th August 2021

Q16. Match the following:

- | | |
|-----------------|--|
| I. Test | 1. Classification of Assessment |
| II. Measurement | 2. Comparing measurement with objectives |
| III. Evaluation | 3. Any instrument/tool |
| IV. Grading | 4. Reading taken by a test/tool |
- a) I-1,II-2,III-3,IV-4 b) I-4,II-2,III-3,IV-1
c) I-3,II-4,III-2,IV-1 d) I-4,II-3,III-2,IV-1

Q17. "Physical education is that field of education which deals with big muscle activities and their related responses." According to_____.

- a) J.P. Thomas b) J.B. Nash
c) J.F. William d) C.C. Cowell

Q18. Which is not the component of Health related fitness?

- a) Flexibility b) Muscular Endurance
c) Speed d) Muscular strength

(SECTION B)

Q19. List down any four objectives of Physical Education.

Q20. List out any four causes of Disability.

Q21. Explain the PRICE treatment for sports injuries.

Q22. List down any four objectives of Adaptive Physical Education.

Q23. List down any four qualities of a good leader.

(SECTION C)

Q25. Briefly explain the Khelo India programme.

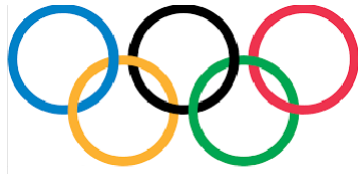
Q26. Give a short note on Ancient Olympics

Q27. Define Yoga. Briefly explain any two importance of Yoga

Q28. Briefly explain any three components of health related fitness.

(SECTION D)

Q29. Olympism



While introducing the chapter Olympism in physical Education class Mr. Bibhash found that children were not familiar with the term and were clueless about the various organisations working in this field. So he explained in detail about IOC and various information related to it were discussed.

On the basis of above given case study answer the following questions:

- Mention any one of the values of the Olympism
- What is the full form of IOC
- When was the IOC established
- Where is the headquarter of IOC located

OR

How many active members are there in IOC

Q30. Yoga as a preventive measure for lifestyle diseases_____



The path of yoga is a flight of eight steps. Efficiency in yoga is attained through step by step process. These are also known as eight elements of Yoga. They are for the individual to think about and ponder over with a rational mind because yoga is not about mindlessly accepting externally imposed rules. It is about finding the truth for oneself and connecting with it.

Based on above case study answer the following questions.

- Which is the first element of Yoga
- Which is the last element of Yoga
- What do you mean by Swadhyaya
- What do you mean by Asana

OR

What is Pranayama

DAV MODEL SCHOOL KSTP ,ASANSOL

PRACTICE WORKSHEET – 1 (SESSION 2024-2025)

CLASS – XI

SUBJECT – BUSINESS STUDIES

Name of the Student: _____ Roll No: _____ Section: _____

QUESTIONS

1. Which of the following is not a function of management?
a) Planning b) Staffing c) Outsourcing d) Controlling

2. Who described management as the art of knowing what you want to do and seeing that it is done in the best and cheapest way?
a) Peter Drucker b) Henry Fayol c) Chester Barnard d) Frederick Taylor

3. Which of the following is not a characteristic of entrepreneurship?
a) Risk-taking b) Dependence c) Innovation d) Decision-making

4. The process of determining the objectives of an organization and deciding on the policies and procedures for achieving them is known as:
a) Organizing b) Controlling c) Planning d) Directing

5. Which of the following is a feature of a private sector enterprise?
a) Owned and controlled by the government b) Governed by government regulations
c) Aim to provide social welfare d) Owned and controlled by individuals or a group of individuals

6. Who is considered the father of scientific management?
a) Peter Drucker b) Henry Fayol c) Frederick Taylor d) Chester Barnard

7. Which of the following is not a principle of management according to Henri Fayol?
a) Division of Work b) Unity of Command c) Scalar Chain d) Synergy

8. Which of the following is not a component of the business environment?
a) Political environment b) Technological environment
c) Social environment d) Physical environment

9. What is meant by 'span of management'?
a) The number of levels in the organizational hierarchy b) The number of subordinates a manager can efficiently supervise
c) The geographic spread of the organization's operations d) The range of products offered by the organization

10. Who is responsible for implementing the plans and policies formulated by top-level management?
a) Middle-level management b) Lower-level management
c) Top-level management d) None of the above

11. Match the Following, Match the items in Column A with the appropriate items in Column B.

Column(A)

- 1. Planning
- 2. Organizing
- 3. Leading
- 4. Controlling
- 5. Private Sector Enterprise
- 6. Public Sector Enterprise
- 7. Entrepreneurship
- 8. Business Environment
- 9. Formal Organization
- 10. Informal Organization

Column(B)

- A. Determining objectives and policies
- B. Coordinating human and non-human resources
- C. Directing and motivating employees
- D. Evaluating performance and taking corrective action
- E. Owned and controlled by individuals or a group of individuals
- F. Owned and controlled by the government
- G. Innovation, risk-taking, decision-making
- H. Political, social, economic factors affecting business activities
- I. Official structure of the organization
- J. Unofficial relationships among employees

Case Study 1: Answer the following questions after reading the paragraph.

XYZ Ltd. is a leading manufacturer of electronic gadgets. The company recently faced a decline in sales due to the emergence of new competitors offering similar products at lower prices. As a result, the management is considering various strategies to regain its market share and improve profitability.

Q12. Analyze the external factors that may have contributed to the decline in sales for XYZ Ltd.

Q13. Suggest and justify three strategic initiatives that XYZ Ltd. could undertake to address the competition?

Q14. Explain the concept of 'unity of command' and its significance in organizational management.

Q15. Define 'entrepreneurship' and highlight its role in economic development.

Q16. Differentiate between 'formal' and 'informal' organization structures, providing examples of each.

Q17. Discuss three key factors that influence the business environment of an organization.

Q18. Describe the significance of 'controlling' as a function of management and provide two examples of controlling mechanisms used in organizations.

Case Study 2: Answer the following questions after reading the paragraph.

ABC Retailers is a chain of supermarkets operating in a competitive market. Recently, the company witnessed a decrease in customer footfall and sales due to changing consumer preferences and the emergence of online grocery delivery services. In response, the management is exploring strategies to enhance the customer experience and revitalize sales.

Q19. Identify two external factors that may have contributed to the decline in customer footfall and sales for ABC Retailers.

Q20. Discuss the concept of 'competitive advantage' and suggest two strategies that ABC Retailers could adopt to differentiate itself from online grocery delivery services.

Q20. Explain the importance of 'customer relationship management' (CRM) in the context of ABC Retailers and propose two CRM initiatives that the company could implement to attract and retain customers.

Q21. Outline the steps ABC Retailers can take to conduct a SWOT analysis to assess its internal

DAV MODEL SCHOOL KSTP ,ASANSOL

PRACTICE WORKSHEET – 2 (SESSION 2024-2025)

CLASS – XI

SUBJECT – BUSINESS STUDIES

Name of the Student: _____ Roll No: _____ Section: _____

Multiple Choice Questions

1. What is the primary objective of a business?
 - a) Maximizing revenue
 - b) Maximizing social welfare
 - c) Maximizing profits
 - d) Maximizing market share

2. Which of the following is not a type of economic activity?
 - a) Production
 - b) Consumption
 - c) Distribution
 - d) Legislation

3. What is the significance of specialization in business?
 - a) It increases production costs.
 - b) It leads to inefficiency.
 - c) It enhances productivity and efficiency.
 - d) It reduces market demand.

4. Which form of business organization has unlimited liability for its owners?
 - a) Sole proprietorship
 - b) Partnership
 - c) Corporation
 - d) Cooperative

5. What is the primary advantage of a partnership over a sole proprietorship?
 - a) Limited liability
 - b) Shared decision-making
 - c) Access to more resources
 - d) Tax advantages

6. What does the term "entrepreneurship" refer to in the context of business studies?
 - a) Ownership of a business
 - b) Management of a business
 - c) Innovation and risk-taking
 - d) Marketing and sales

7. Which function of management involves setting goals and determining the best course of action to achieve them?
 - a) Planning (b) Organizing (c) Directing (d) Controlling

13. Explain the importance of limited liability protection for shareholders in a corporation.

14. Outline the process of registering a corporation and the legal formalities involved.

15. Discuss how partnership agreements can help mitigate conflicts among partners.

16. How does the transferability of ownership affect the flexibility of partnerships and corporations?

DAV MODEL SCHOOL KSTP ,ASANSOL

PRACTICE WORKSHEET – 1 (SESSION 2024-2025)

CLASS – XI

SUBJECT – ENTREPRENEURSHIP

Name of the Student: _____ Roll No: _____ Section: _____

Multiple Choice Questions

Q1. Who is considered the father of modern entrepreneurship theory?

- a) Adam Smith b) Joseph Schumpeter c) Richard Cantillon d) Peter Drucker

Q2. Which of the following is not a characteristic of successful entrepreneurs?

- a) Innovation b) Risk aversion c) Persistence d) Adaptability

Q3. What term refers to the process of transforming ideas into marketable products or services?

- a) Incubation b) Innovation c) Imitation d) Investment

Q4. What type of entrepreneurship focuses on creating social or environmental impact alongside financial profit?

- a) Traditional entrepreneurship b) Social entrepreneurship
c) Entrepreneurship d) Corporate entrepreneurship

Q5. What does SWOT analysis stand for?

- a) Strengths, Weaknesses, Opportunities, Threats b) Sales, Wealth, Opportunities, Transactions
c) Success, Wealth, Operations, Targets d) Strengths, Wealth, Objectives, Trends

Q6. Which of the following is not a stage in the entrepreneurial process?

- a) Idea generation b) Market saturation c) Business establishment d) Opportunity recognition

Q7. What term refers to the ability to confront uncertain situations and take calculated risks?

- a) Creativity b) Risk-taking c) Adaptability d) Leadership

Q8. What is the process of bringing together the factors of production to produce goods and services?

- a) Production b) Entrepreneurship c) Marketing d) Distribution

Q9. Which of the following is an example of an Entrepreneur?

- a) Bill Gates b) Steve Jobs
c) A manager who starts a new project within a company d) A small business owner

- Q10. What type of innovation involves introducing a new product or service to the market for the first time?
- a) Product innovation
 - b) Process innovation
 - c) Market innovation
 - d) Organizational innovation

Fill in the Blank

11. _____ is the process of transforming ideas into marketable products.
12. SWOT analysis helps entrepreneurs assess internal _____ and _____.
13. _____ entrepreneurship focuses on creating social or environmental impact alongside financial profit.
14. Entrepreneurs are individuals who work within a company to develop new _____ or _____.
15. _____ involves identifying and seizing business opportunities.

Q16. Explain the role of innovation in entrepreneurship.

Q17. Discuss three characteristics of successful entrepreneurs.

Q18. Describe the stages involved in the entrepreneurial process.

Q19. Define the term "opportunity recognition" and explain its significance in entrepreneurship.

Q20. Discuss the importance of conducting a SWOT analysis for entrepreneurs.

Case Study 1 : Read the Paragraph and answer the following Questions.

Sitam Bhaiya wants to start his own food delivery business in his locality. He has identified a growing demand for home-cooked meals among working professionals and students. However, he is unsure about how to proceed with setting up his venture.

Q21. Discuss the process of opportunity recognition in Sitam Bhaiya's entrepreneurial journey.

Q22. Suggest three strategies that Sitam Bhaiya could use to overcome the challenges of starting his food delivery business.

**DAV MODEL SCHOOL KSTP ,ASANSOL
PRACTICE WORKSHEET -2 (SESSION : 2024 – 2025)**

CLASS XI

SUBJECT: ENTREPRENEURSHIP

Name: _____ **Roll No:** _____ **Section:** _____

Q1.Who defined entrepreneurship as the "pursuit of opportunity beyond the resources controlled"?

a) Peter Drucker b) Joseph Schumpeter c) Richard Cantillon d) Timmons and Spinelli

Q2. Which of the following is not a characteristic of entrepreneurship?

a) Innovation b) Risk aversion c) Creativity d) Visionary thinking

Q3.What term refers to the ability to identify and capitalize on business opportunities?

a) Creativity b) Opportunity recognition c) Risk-taking d) Adaptability

Q4.What is the process of bringing together resources such as land, labour, and capital to produce goods and services?

a) Innovation b) Production c) Marketing d) Distribution

Q5.What type of entrepreneurship focuses on creating social, environmental, or community impact alongside financial profit?

a) Corporate entrepreneurship b) Social entrepreneurship c) Intrapreneurship d) Traditional entrepreneurship

Q6.Which of the following is not a stage in the entrepreneurial process?

a) Idea generation b) Market saturation c) Business establishment d) Opportunity recognition

Q7.What term refers to the process of transforming ideas or inventions into marketable products or services?

a) Incubation b) Innovation c) Imitation d) Integration

Q8.What type of innovation involves improving existing products, services, or processes?

a) Product innovation b) Process innovation c) Market innovation d) Organizational innovation

Q9.Who coined the term "intrapreneur"?

a) Peter Drucker b) Joseph Schumpeter c) Gifford Pinchot d) Richard Cantillon

Q10.Which of the following is an example of a social entrepreneur?

a) Bill Gates b) Mark Zuckerberg c) Muhammad Yunus d) Elon Musk

Q11. Create a flowchart illustrating the different stages of the entrepreneurial process.

Q12. Analyze the importance of market research for entrepreneurs. How can it help in Identifying opportunities?

Q13. Imagine you want to start a small business. Develop a SWOT analysis for your business idea.

Q14. Discuss the difference between a business idea and a business opportunity. Provide examples of each.

Q15. Explain the concept of value creation in entrepreneurship. How can entrepreneurs create value for their customers?

Q16. Create a flowchart outlining the steps involved in developing a business plan.

Q17. Compare and contrast different types of business ownership structures (sole proprietorship, partnership, corporation). What are the advantages and disadvantages of each?

Q18.Analyze the role of innovation in entrepreneurship. Provide examples of how innovation has led to successful businesses.

Q19.Discuss the importance of networking for entrepreneurs. How can networking help in growing a business?

Q20.Imagine you are faced with a business dilemma. Develop a decision-making framework to help you make the best decision.

Q21.Create a flowchart illustrating the process of identifying and evaluating business opportunities.

D.A.V. MODEL SCHOOL, KSTP, ASANSOL
HOLIDAY HOMEWORK (WORKSHEET)

SESSION: 2024-2025

SUBJECT: INFORMATION PRACTICE

CLASS: XI

Name _____ **Roll No:** _____ **Section:** _____

Choose the correct option.

1) $(1\ 1\ 0\ 1\ 0\ 1\ 1)_2 = (?)_{10}$

- a) 105 b) 110 c) 107 d) 109

2) $(436)_8 = (?)_{10}$

- a) 284 b) 286 c) 302 d) 290

3) $(1\ 0\ 1\ 1\ 1\ 1\ 0\ 0\ 1\ 0\ 1\ 0\ 1\ 1\ 0)_2 = (?)_{16}$

- a) 5F56 b) 5E56 c) 5D56 d) 5F56

4) $(AB3)_{16} = (?)_{10}$

- a) 2735 b) 2752 c) 2742 d) 2739

5) $(11010)_2 = (?)_{10}$

- a) 24 b) 32 c) 36 d) 26

6) You don't have to pay for python and you can view its source code too. It means it is a

- a) Open source b) freeware c) Shareware d) None of these

7) Which of the following components is the main memory of computer?

- a) CD b) DVD c) hard drive d) RAM

8) 2nd Generation computer based on

- a) Vacuum Tube b) I.C c) Transistors d) Microprocessor

9) Data items having fixed value are called

- a) Identifiers b) Keywords c) literals d) function

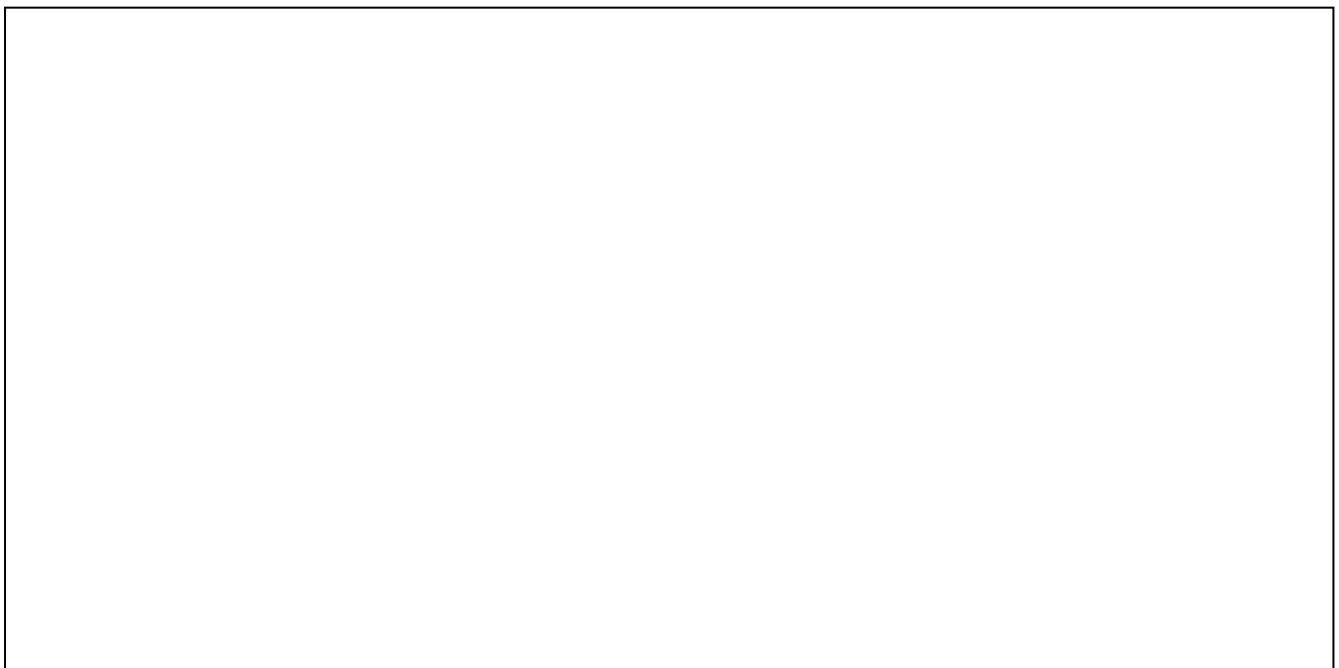
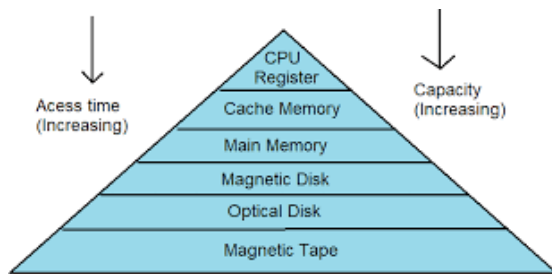
10) Fastest memory in the computer system.

- a) RAM b) CPU Register c) HDD d) cache

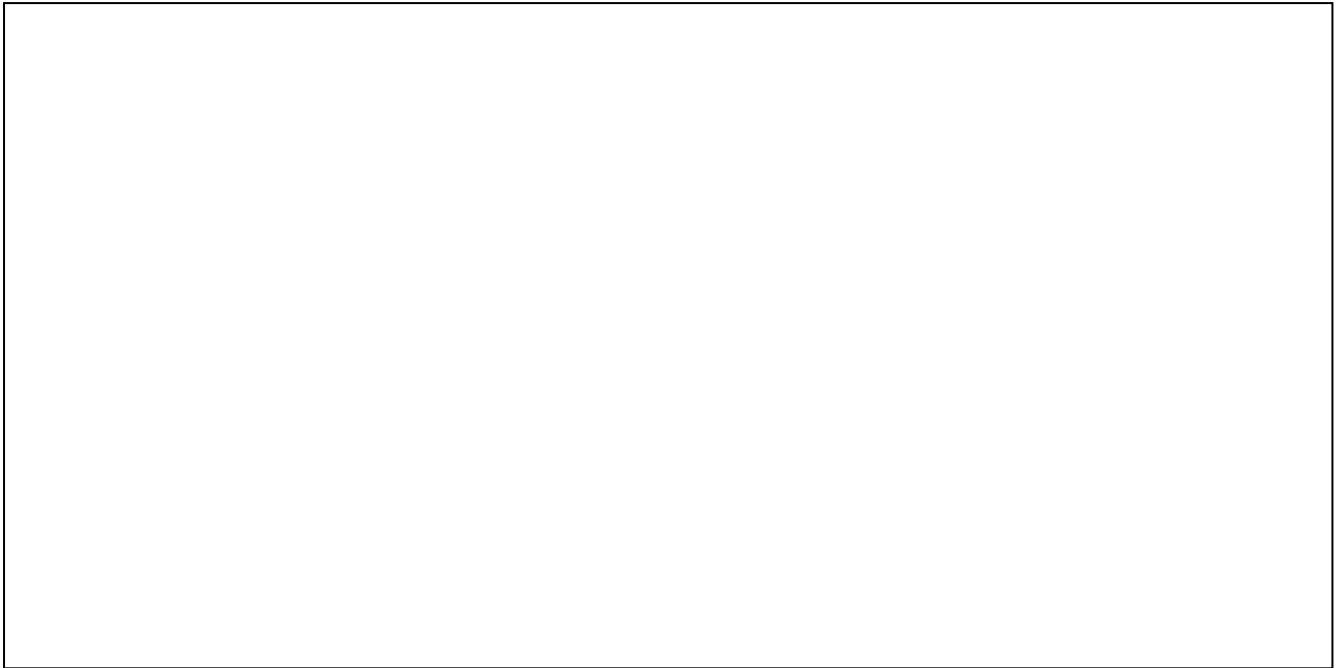
11) Draw the block diagram of a computer system.



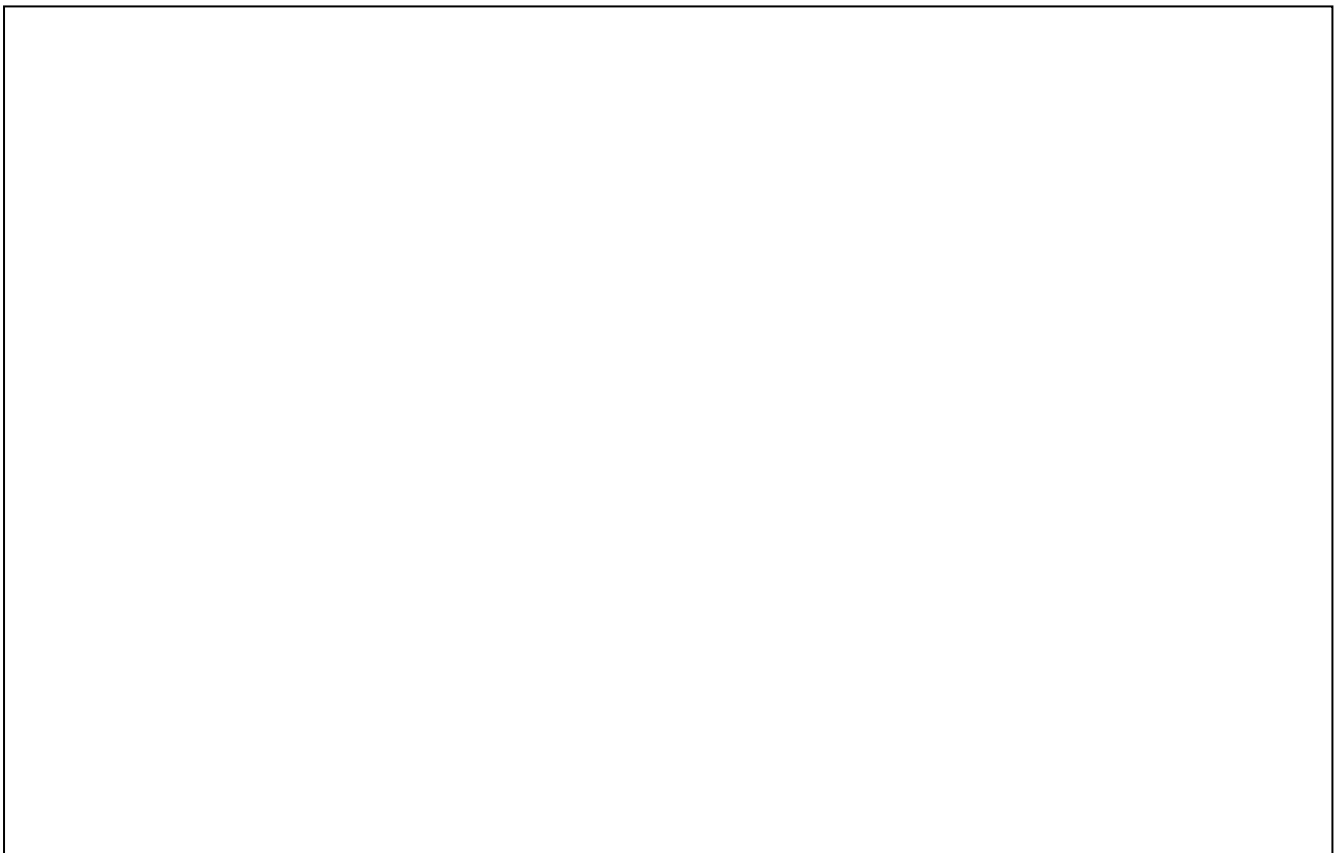
12) Define memory hierarchy in computer System



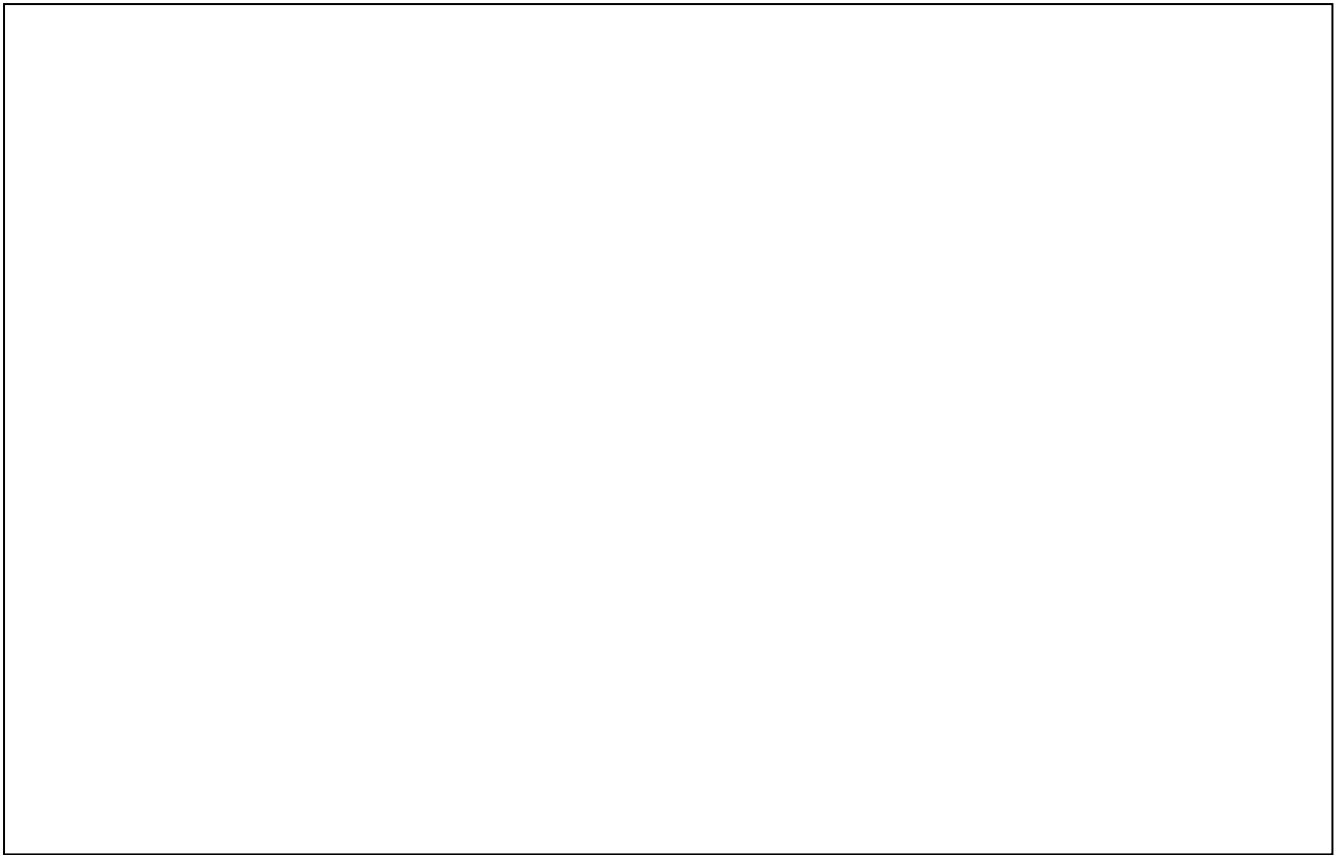
12) write a program to swap 2 number using python



14) Write a program to check whether an input year is Leap year or not? (User input)



15) Write down the advantages of Python language.

A large, empty rectangular box with a thin black border, intended for the student to write their answer to the question about the advantages of Python.

D.A.V. MODEL SCHOOL, KSTP, ASANSOL
HOLIDAY HOMEWORK (WORKSHEET)
SESSION: 2024-2025

SUBJECT: COMPUTER SCIENCE

CLASS: XI

Name _____ **Roll No:** _____ **Section:** _____

Choose the correct option.

1) $(1\ 1\ 0\ 1\ 0\ 1\ 1)_2 = (?)_{10}$

- a) 105 b) 110 c) 107 d) 109

2) $(436)_8 = (?)_{10}$

- a) 284 b) 286 c) 302 d) 290

3) $(1\ 0\ 1\ 1\ 1\ 1\ 0\ 0\ 1\ 0\ 1\ 0\ 1\ 1\ 0)_2 = (?)_{16}$

- a) 5F56 b) 5E56 c) 5D56 d) 5F56

4) $(AB3)_{16} = (?)_{10}$

- a) 2735 b) 2752 c) 2742 d) 2739

5) $(11010)_2 = (?)_{10}$

- a) 24 b) 32 c) 36 d) 26

6) 1's Complement of binary number 10010 is

- a) 01101 b) 01111 c) 11101 d) 10101

7) $(011100101)_2 = (?)_8$ is

- a) 345 b) 435 c) 535 d) 335

8) 2's Complement of binary number 10010 is

- a) 00101 b) 01111 c) 110101 d) 01110

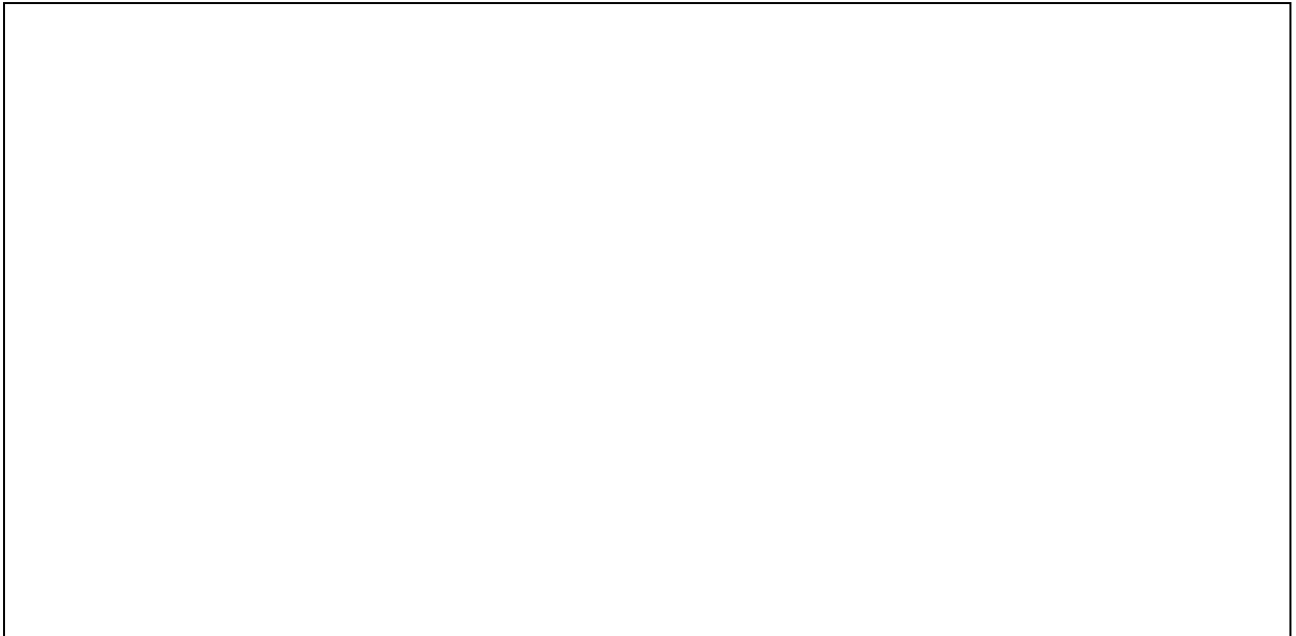
9) 2's Complement of binary number 11000 is

- a) 01000 b) 01111 c) 110101 d) 01110

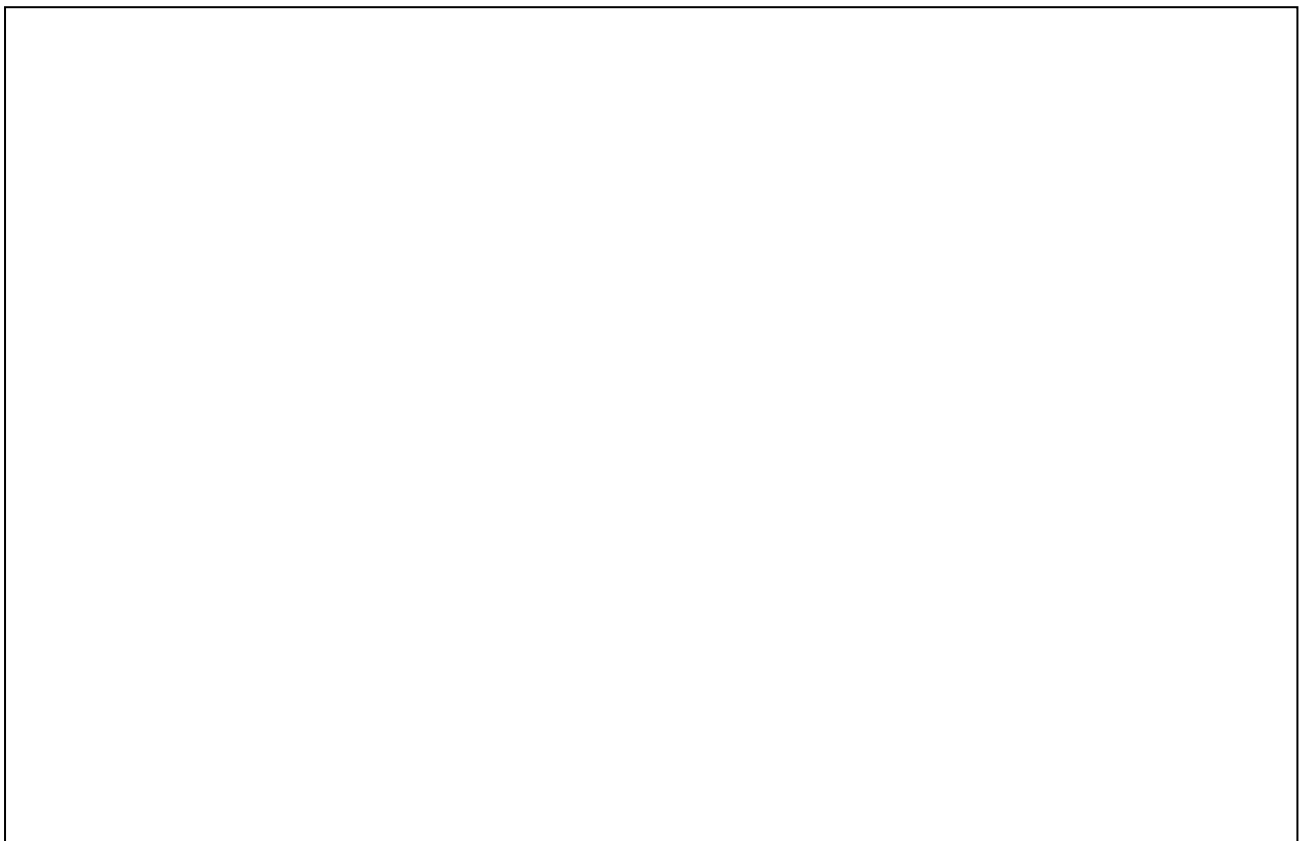
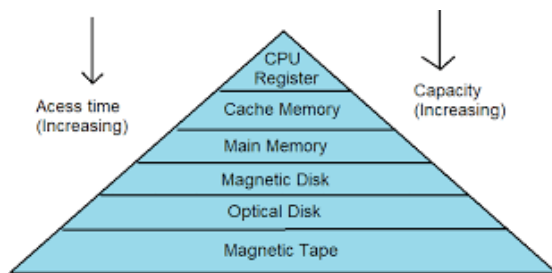
10) Fastest memory in the computer system.

- a) RAM b) CPU Register c) HDD d) cache

11) Draw the block diagram of a computer system.



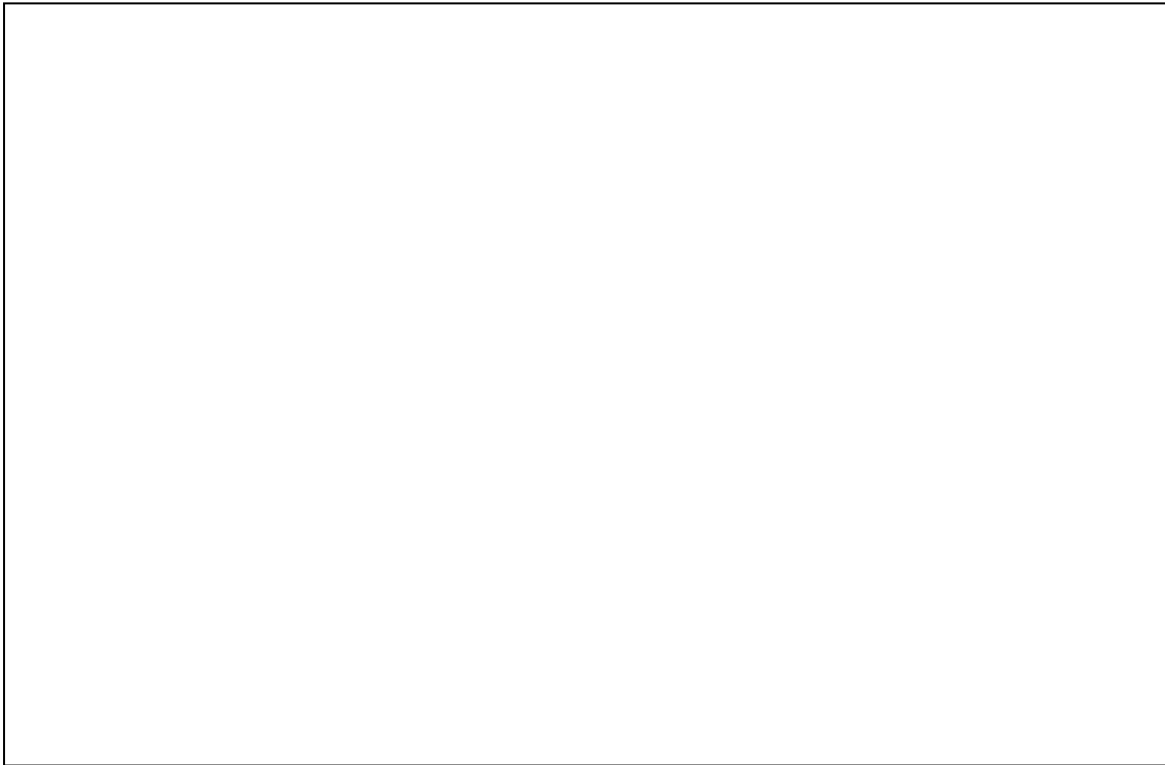
12) Define memory hierarchy in computer System



12) Prove the Boolean Laws using Truth Table:

a) $X+XY=X$

b) $X.(X+Y)=X$



14) Draw the logic circuits for the following Boolean expressions:

a) $F = B.C' + A'.B.C$

b) $F = A.B + A'.B'$

