

EVERWIN MATRIC. HR. SEC. SCHOOL

10.07.19 T.T English Time: 45 Mins

STD: XI (E,H,I) Marks: 25

I. Match the words in column A with their pairs in column B to form compound words: $4 \times \frac{1}{2} = 2$

A B

- | | |
|-------------|-------|
| 1. Mantel | Plaza |
| 2. Spinning | Knob |
| 3. Door | Piece |
| 4. Toll | Wheel |

II. 5. Form two derivatives from each of the following words:

- a) manage - b) arrange - $2 \times 1 = 2$

III. Fill in the blanks with suitable homophones: $3 \times 1 = 3$

6. The child looks very sick and _____ (pail / pale)
7. Oxygen is the _____ element present in the earth's crust (Principle / Principal)
8. The _____ (corps / corpse) was covered with a shroud.

IV. Fill in the blanks with appropriate determiners: $3 \times 1 = 3$

9. Anand invited _____ friends for the birthday party (few / a few)
10. _____ girls who attended the class informed the others about the test (Some / Few)
11. Vijay had _____ idea about the problem (no / any)

V. Fill in the blanks with verbs given in brackets in the following sentences in their correct forms: $5 \times 1 = 5$

12. I _____ (like) to spend time with my friend, whenever I _____ (be) free.

13. She always _____ (make) excuses for coming late.

14. The Prime Minister _____ (leave) for America to meet the delegates tomorrow.

15. We _____ (hear) a lot of noise because of the traffic jam.

VI. Fill in the following sentence in correct tense form: $3 \times 1 = 3$

We met a lot of children on our trek through the villages. They _____ (16) (play) in the pool of muddy rain water as we left the place. We have already climbed 2,400 metres up here it never _____ (17) (rain) and there are no trees. It _____ (18) (be) windy and dusty and I am always thirsty.

VII. Fill in the blanks using past perfect tense forms of the verbs:

$2 \times 1 = 2$

19. The cat _____ (chase) the bird before it flew out of the yard.

20. Nirmala _____ (be) to the concert several times.

VIII. Answer the following questions in a paragraph of about 150 words each: (5)

21. Compare and contrast the characters of Jimmy Wells and Bob with suitable references from the story to support your view.

10.07.19 T.T Accountancy Time: 45 Mins
 STD: XI (F,G) Marks: 30

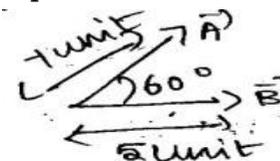
- I. Answer the following question: 2x5=10
1. What is meant by accounting concepts? Give any 4 concept of Accounting.
 2. Write a brief note on "Consistency" assumption.
- II. Answer the following questions: 2x10=20
3. Selvi is a dealer in furniture. Show the accounting equation for the following transaction.

	₹
i) Started business with cash	1,00,000
ii) Deposited cash into bank	60,000
iii) Borrowed loan from bank	25,000
iv) Bought goods & paid by cheque	10,000
v) Cash withdrawn for personal use	5,000
vi) Cash withdrawn from bank for office use	3,000

4. What will be the effect of the following on the accounting equation?
 - a) Sunil started business with cash ₹1,40,000 and goods ₹60,000
 - b) Purchased furniture for ₹20,000 by cash
 - c) Depreciation on furniture ₹800
 - d) Deposited into bank ₹40,000
 - e) Paid electricity charge by net banking ₹500
 - f) Sold goods to Ravi costing ₹10,000 for ₹15,000
 - g) Goods returned by Ravi ₹5,000 (costing ₹4,000)

10.07.19 T.T Physics Time: 45 Mins
 STD: XI (C,D) Marks: 30

- I. Choose the correct answer: 5x1=5
1. The angle between \vec{A} & \vec{B} is 180° then it is called _____.
 - a) parallel vector
 - b) equal vector
 - c) Anti-parallel
 - d) collinear vector
 2. Which among the following is not a vector quantity?
 - a) force
 - b) position vector
 - c) angular momentum
 - d) energy
 3. Given the vector $\vec{B}=8\hat{i}+6\hat{j}$, what is $9\vec{B}$?
 - a) $27\hat{i}+54\hat{j}$
 - b) $72\hat{i}+54\hat{j}$
 - c) $18\hat{i}+16\hat{j}$
 - d) $0\hat{i}+0\hat{j}$
 4. Identify the unit vector in the following:
 - a) $\hat{i}+\hat{j}$
 - b) $\frac{\hat{i}}{\sqrt{2}}$
 - c) $\hat{k}-\frac{\hat{j}}{\sqrt{2}}$
 - d) $\frac{\hat{i}+\hat{j}}{\sqrt{2}}$
 5. If the vector product of two non-zero vectors will be minimum when θ _____.
 - a) 0°
 - b) 270°
 - c) 0° or 180°
 - d) 0° or 270°
- II. Answer any 3 of the following: 3x2=6
6. Define scalar & vector with examples.
 7. Given two vectors $\vec{A}=2\hat{i}+4\hat{j}+5\hat{k}$ and $\vec{B}=\hat{i}+3\hat{j}+6\hat{k}$ find the product of $\vec{A}\cdot\vec{B}$ and the magnitudes of \vec{A} and \vec{B} .
 8. Two vector are given as $\vec{r}=2\hat{i}+3\hat{j}+5\hat{k}$ and $\vec{F}=3\hat{i}-2\hat{j}+4\hat{k}$. Find the resultant vector $\vec{v}=\vec{r}\times\vec{F}$.
 9. Define orthogonal unit vectors.
- III. Answer the following in brief: 3x5=15
10. Explain in detail the triangle law of addition.
 11. Discuss the properties of scalar products with definition.
 12. Discuss the properties of vector products with definition.
- IV. Answer any 1 of the following: 1x4=4
13. Two vectors \vec{A} & \vec{B} of magnitude 5units and 7units respectively make an angle 60° with each other as shown below. Find the magnitude of the resultant vector and its direction with respect to the vector \vec{A} .



(or)

14. Two vectors \vec{A} & \vec{B} are given in the component form as $\vec{A}=5\hat{i}+7\hat{j}-4\hat{k}$ and $\vec{B}=6\hat{i}+3\hat{j}+2\hat{k}$ find $\vec{A}+\vec{B}$, $\vec{B}+\vec{A}$, $\vec{A}\cdot\vec{B}$, $\vec{A}\times\vec{B}$.

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10.07.19

T.T Chemistry

Time: 45 Mins

STD: XI (B)

Marks: 30

I. Choose the correct answer:

5x1=5

1. The maximum number of electrons in a sub shell is given by the expression

- a) $2n^2$ b) $2l+1$ c) $4l+2$ d) none of these

2. Which of the following does not represent the mathematical expression for the Heisenberg uncertainty principle?

- a) $\Delta X. \Delta P \geq \frac{h}{4\pi}$ b) $\Delta X. \Delta V \geq \frac{h}{4\pi m}$ c) $\Delta E. \Delta t \geq \frac{h}{4\pi}$ d) $\Delta E. \Delta X \geq \frac{h}{4\pi}$

3. The nucleus of an atom contains

- a) Electrons and protons b) Neutrons and protons
c) Electrons, protons and neutrons
d) Neutrons and electrons

4. Match the List-I with List-II select the correct answer using the code given below the lists.

List-I	List-II	A	B	C	D
A. The energies of electrons are quantised	1. Thomson's atomic model	a)1	2	3	4
B. Atom is a positively charged sphere in which the electrons are embedded.	2. Bohr atom model	b)4	3	1	2
C. Planetary model	3. De Broglie	c)3	1	4	2
D. Dual nature of the microscopic particle	4. Rutherford	d)2	1	4	3

5. Consider the following statements

- 1) $\lambda = \frac{h}{mv}$ is valid only when the particle travels at speed much less than the speed of light.
2) Einstein's mass-energy relationship is $E=mc^2$.
3) The angular momentum (mvr) of the electron must be equal to an integral multiple of $\frac{h}{4\pi}$.

Which of the following statement(s) given above is/are correct?

- a) 1 & 3 b) only 1 c) 1 & 2 d) 1, 2 & 3

II. Answer any 5 of the following:

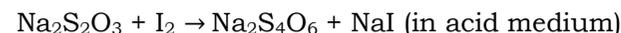
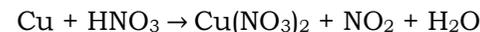
5x2=10

6. What is Zeeman effect?
7. State Heisenberg's uncertainty principle and give its mathematical expression.
8. Write the Schrodinger wave equation.
9. What do you understand by dual character of matter?
10. What did Rutherford's alpha ray scattering experiment prove?
11. What is the value of Planck's constant?

IV. Answer any 3 of the following:

3x5=15

12. Enlist the postulates of Bohr's atom model.
13. Derive an equation for the wavelength of a matter wave.
14. Balance the following equation by oxidation number method.
15. Balance the following equation by Ion electron method.



10.07.19

T.T Chemistry

Time: 45 Mins

STD: XI (A)

Marks: 30

I. Choose the correct answer:

6x1=6

1. Assertion: The spectrum of He^+ is expected to be similar to that of Hydrogen.

Reason: He^+ is also one electron system

- a) Both assertion and reason are true and reason is the correct explanation of assertion
 b) Both assertion and reason are true but reason is not the correct explanation of assertion
 c) Assertion is true but reason is false
 d) Both assertion and reason are false
2. Which of the following pairs of d-orbitals will have electron density along the axes?
 a) d_{z^2} , d_{xz} b) d_{xz} , d_{yz} c) d_{z^2} , $d_{x^2-y^2}$ d) d_{xy^2} , $d_{x^2-y^2}$
3. The maximum number of electrons in a sub shell is given by the expression
 a) $2n^2$ b) $2l+1$ c) $4l+2$ d) none of these
4. What is the maximum numbers of electrons that can be associated with the following set of quantum numbers? $n=3$, $l=1$ and $m=-1$?
 a) 4 b) 6 c) 2 d) =10
5. If $n=6$, the correct sequence for filling of electrons will be,
 a) $ns \rightarrow (n-2)f \rightarrow (n-1)d \rightarrow np$ b) $ns \rightarrow (n-1)d \rightarrow (n-2)f \rightarrow np$
 c) $ns \rightarrow (n-2)f \rightarrow np \rightarrow (n-1)d$ d) none of these are correct
6. Time independent Schrodinger wave equation is
 a) $\hat{H}\psi = E\psi$ b) $V^2\psi + \frac{8\pi^2}{h^2}(E+V)\psi = 0$
 c) $\frac{\partial^2\psi}{\partial x^2} + \frac{\partial^2\psi}{\partial y^2} + \frac{\partial^2\psi}{\partial z^2} + \frac{2m}{h^2}(E-V)\psi = 0$ d) all of these
- II. Answer the following: 6x4=24
7. Balance the following equations by oxidation number method.
 1) $\text{KMnO}_4 + \text{Na}_2\text{SO}_4 \rightarrow \text{MnO}_2 + \text{Na}_2\text{SO}_4 + \text{KOH}$
 2) $\text{Cu} + \text{HNO}_3 \rightarrow \text{Cu}(\text{NO}_3)_2 + \text{NO}_2 + \text{H}_2\text{O}$
 3) $\text{K}_2\text{Cr}_2\text{O}_7 + \text{KI} + \text{H}_2\text{SO}_4 \rightarrow \text{K}_2\text{SO}_4 + \text{Cr}_2(\text{SO}_4)_3 + \text{I}_2 + \text{H}_2\text{O}$
8. Balance the following by ion electron method.
 4) $\text{Zn} + \text{HNO}_3 \rightarrow \text{Zn}^{2+} + \text{NO}$
 5) $\text{KMnO}_4 + \text{SnCl}_2 + \text{HCl} \rightarrow \text{MnCl}_2 + \text{SnCl}_4 + \text{H}_2\text{O} + \text{KCl}$
 6) $\text{Na}_2\text{S}_2\text{O}_3 + \text{I}_2 \rightarrow \text{Na}_2\text{S}_4\text{O}_6 + \text{NaI}$ (in acid medium)