(4)

Model Paper 12th Class - 2024

you think is correct, fill that circle in front of that question number. Use marker or pen to fill

CHEMISTRY

(C) Marble

OBJECTIVE

NOTE: You have four choices for each objective type question as A, B, C and D. The choice which

TIME: 20 MINUTES

VE MARKS: 17

	the Circle. Cutting or	filling two or more circles will result in zero mark in that	question.
i.	The elements in periodic table are classified into blocks:		
1.	(A) 1	(B) 2	
	(C) 4	(D) 3	
ii.	Choose the correct electr		
	(A) [Ar] 2s ²	(B) [Ar] 4s ²	
	(C) [Ne] 3s ²	(D) [Ne] $4s^2$	
iii.	Tincal is a mineral of:	(5) [146] 43	
	(A) Aluminium	(B) Magnesium	
	(C) Boron	(D) Carbon	
iv.	The catalyst used in contact process is:		
	(A) Fe ₂ O ₃	(B) V ₂ O ₅	
	(C) Ag ₂ O	(D) SO ₃	
٧.	The Hydrogen bonding is		
	(A) HF	(B) HBr	
	(C) HCl	(D) HI	
vi.	The total transition eleme		
•	(A) 10	(B) 14	
	(C) 20	(D) 58	
vii.	25. 2.50	typical transition element:	
0.7.7.7.0	(A) Co	(B) Sc	
	(C) Y	(D) Ra	
viii.	Linear shape is associated with which of the following hybrid orbital:		
	(A) sp	(B) sp ²	
	(C) sp ³	(D) dsp ²	
ix.	Formula of trichloromethane is:		
	(A) CH ₃ CI	(B) CH ₂ Cl ₂	
	(C) CHCl ₃	(D) CCl ₄	
х.		ane into benzene is called as:	
	(A) Aromatization	(B) Dealkylation	
	(C) Rearrangement	(D) Isomerization	
xi.	When CO ₂ is made to react with ethyl magnesium bromide followed by acid hydrolysis		
	the product formed is:		
	(A) Acetic acid	(B) Formic acid	
	(C) Propanoic acid	(D) Mathanol	
xii.	Ethanal can be converted	into ethanoic acid by:	
	(A) Hydrogenation	(B) Oxidation	
	(C) Hydration	(D) Fermentation	
xiii.	The hybridization of oxyg	en atom in carbonyl group is:	
	(A) sp	(B) sp^2	
	(C) sp^3	(D) dsp ²	
xiv.		tic polymers from the following:	
	(A) Starch	(B) Animal fat	
	(C) Cellulose	(D) Polyester	
XV.	Which of the following element is not present in all proteins:		
	(A) S	(B) N	
10	(C) C	(D) H	
xvi.		led again and again by how many times:	
	(A) 2	(B) 5	
	(C) 4	(D) 3	
xvii.		not a calcareous material:	
	(A) Lime	(B) Clay	

(D) Marine shell

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CHEMISTRY

SUBJECTIVE SECTION-I

TIME: 2 HRS 40 MINUTES

 $(2 \times 8 = 16)$

MARKS: 68

2. Write short answers to any EIGIIT questions.

- i. Why noble gases have usually zero oxidation?
- ii. Write down any four uses of Aluminum.
- iii. What is white lead
- iv. What is iodized salt?
- v. What are freons and Teflon?
- vi. Explain the variation in melting and boiling points in short periods?
- vii. Differentiate between Thermoplastic and Thermosetting plastic.
- viii. Draw the structure of glucose.
- ix. Write down any two properties of lipids.
- x. How detergents are affecting the marine life.
- xi. What are leachates?
- xii. How are Chloroflourocarbons destroying ozone layer?

3. Write short answers to any EIGHT questions.

 $(2 \times 8 = 16)$

- Differentiate between alicyclic and acyclic compounds.
- ii. Draw the various isomers of C₄H₁₀.
- iii. Convert Methane into Nitromethane.
- iv. State Markownikoff Rule with an example.
- v. Write down any four uses of Ethyne.
- vi. How NO2 is act as oxidizing agent.
- vii. How Aqua Regia dissolved gold?
- viii. How does nitrogen differ from other members of its group?
- ix. How ethyl chloride converted into n-butane by Wurtz Synthesis.
- x. Define nucleophilic substitution reaction.
- xi. Write down any two essential qualities of good fertilizer.
- xii. Mention the role of Phosphorous in the growth of plants.

4. Write short answers to any SIX questions.

(2x6=12)

- i. What is central metal ion?
- ii. Give systematic name of (i) K₂[PtCl₆] (ii) [Pt(OH)₂(NH₃)₄]SO₄
- iii. How will you distinguish methanol and ethanol?
- iv. What is Dow's method .
- v. Draw the structural formulas of (i) Carbolic Acid (ii) Cyclohexanol.
- vi. What is sodium nitroprusside test?
- vii. What is formalin?
- viii. Briefly describe the acidic and basic character of amino acids.
- ix. What are fatty acids. Give two examples.

(SECTION - II)

Note: Attempt any three from the following.

(8x3=24)

- 5. (A)Define electron affinity. Discuss its trend in periodic table.
 - (B)Discuss any two methods of preparation of borax?
- (A)Write down any four dissimilarities of oxygen and Sulphur.
 - (B) Define smog. Write down its conditions of formation.
- (A)Explain Cis –Trans isomerism in detail.
 - (B)Explain unimolecular nucleophilic substitution reaction.
- 8. (A)Write a note on Atomic orbital treatment of Benzene.
 - (B) How ethanol is prepared by molasses.
- (A)Write any four methods of preparation of alkanes.
 - (B)Define Aldol Condensation with Mechanism.

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