FBD-12-18

Objective Paper Code Intermediate Part Second (New Scheme)
CHEMISTRY (Objective)

Roll No. : _____

8481

Time: 20 Minutes Marks: 17

Q.No.1 You have four choices for each objective type question as A, B, C and D. The choice which you think is correct, fill the relevant circle in front of that question number on computerized answer sheet. Use marker or pen to fill the circles. Cutting or filling two or more circles will result in zero marks in that question. Attempt as many questions as given in objective type question paper and leave other circles blank.

S.#	Questions	A		В	C	D
1	Which statement is incorrect?	All the metals are good conductor of electricity		All the metals are good conductor of heat	All the metals form positive ions	All the metals form acidic oxides
2	Which does not belong to alkaline-earth metals?	Ве		Ra	Ba	Rn
3	Chemical composition of colemanite is:			O ₁₁ · 5H ₂ O O ₇ · 4H ₂ O	$\begin{array}{c} C & Na_2B_4O_7 \cdot 4H_2O \\ \hline D & CaNaB_5O_9 \cdot 8H_2O \end{array}$	
4	Laughing gas is chemically:	NO		N ₂ O	NO ₂	N ₂ O ₄
5	Which is the strongest acid:	НСℓО		NCIO2	HCℓO ₃	HCℓO ₄
6	Which is a typical transition metal?	Sc		Y	Ra	Co
7	The state of hybridization of carbon in methane is:	sp ³		sp ²	sp	dsp ²
8	Synthetic rubber is made by polymerization of:	chloroform		Acetylene	Divinyl acetylene	Chloroprene
9	The electrophile in aromatic sulphonation is:	I	H ₂ SO ₄	HSO ₄	SO ₃	SO ₃ ⁺
10	Which is not a nucleophile?	H ₂ O		H ₂ S	BF ₃	NH ₃
11	Rectified spirit contains alcohol about:	80%		85%	90%	95%
12	Which compounds will not give iodoform test?	Acetaldehyde		Acetone	Butanone	3-Pentanone
13	Which reagent is used to reduce a carboxylic acid to an alcohol?	L	.iAℓH₄	HI/P	H ₂ /Ni	H ₂ /Pt
14	The reaction between a fat and NaOH is called:	Este	erification	Hydrogenolysis	Fermentation	Saponification
15	Which three elements are needed for the healthy growth of plants?	1	N, S, P	Na, Ca, P	N, P, K	N, K, C
16	Ecosystem is a smaller unit of:	Lit	hosphere	Biosphere	Atmosphere	Hydrosphere
17	A single chloride free radical can destroy how many ozone molecules?		100	100000	10000	1000

FBD-12-18

Intermediate Part Second (New Scheme)

(Subjective)

Time: 02:40 Hours

CHEMISTRY

Marks: 68

Roll No.

SECTION - I

2	Write short answers to any EIGHT parts.	16				
	(i) Why Na ₂ O is basic and P ₂ O ₅ is acidic in character although both Na and P belong to same period?					
	(ii) Why second electron affinity value of an electron has positive sign?					
	(iii) What is milk of magnesia? Give its use.					
	(iv) Give any four uses of sodium silicate.					
	(v) How "Aℓ" (Aluminum) reacts with hydrogen and halogen?					
	(vi) Give four uses of Boric acid.					
	(vii) Why is SO ₃ dissolved in H ₂ SO ₄ and not in H ₂ O in contact process?					
	viii) What is aqua regia? How it dissolves gold?					
	ix) Give four dissimilarities between sulphur and oxygen.					
	(x) How detergents are threat to aquatic animal life?					
	(xi) What is COD? How it is measured?					
•	(xii) What is a functional group? Name functional group present in alcohol and ether.	16				
3.	(xii) What is a functional group? Name functional group present in alcohol and ether. Write short answers to any EIGHT parts. (i) What are typical and non-typical transition elements? (ii) What is coordination sphere? Give one example. (iii) What is Clemmensen reduction? Give one example. (iv) Convert propyne into acetone. (v) Benzene is polymer of acetylene. Justify. (vi) Explain Wurtz synthesis with one example. (vii) Explain Williamsons synthesis of ether. (viii) Ethanol has higher boiling point than diethyl ether. Give reasons					
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	vii) Explain Williamsons synthesis of ether.					
	viii) Ethanol has higher boiling point than diethyl ether. Give reason, ix) Explain Fehling's solution test.					
	x) Write two uses of formaldehyde.					
	xi) What is Zwitter ion? Give example.					
	xii) Write mechanism for the reaction between acetic acid and NH ₃ ?					
1	Write short answers to any SIX parts.	10				
٦.	i) Define saponification number with a suitable example.	12				
	ii) Write two points of difference between a fat and an oil.					
	iii) Differentiate with at least two points between amylose and amylopectin.					
	iv) Name woody and non-woody raw materials for production of pulp (two each).					
	v) Describe the term setting of a cement.					
	vi) Write formula for (a) Calcium super phosphate (b) Diammonium phosphate.					
	vii) What is iodized salt?					
	viii) Why iodine has metallic luster? Justify.					
	ix) Name any two methods to manufacture bleaching powder. Also give reaction for this.					
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٥.	a) Write a brief note on oxidation state of elements in groups of modern periodic table?	04				
	b)Describe the role of lime in industry. Write eight points.	04				
6.	a) How is KMnO ₄ prepared by (i) Stadeler's process (ii) Electrolytic oxidation process.	04				
	b)How is oil spillage affecting the marine life?	04				
7	a)Discuss cis-trans isomerism giving two examples.	04				
	b)Describe the stability of benzene on the basis of heat of hydrogenation.	04				
0		04				
8.	a) How is ethyne prepared by Kolbe's electrolytic method? Write its mechanism.					
	b)How is ethanol prepared from molasses and starch by fermentation?	04				
9.	a) Write the reactions of Grignard reagent with: (i) Alcohol (ii) CO ₂ (iii) C ℓ - CN (iv) CH ₃ - C-H	04				
	b)Write the reactions of acetaldehyde with:	04				
	(i) NaBH ₄ /H ₂ O (ii) H ₂ /Pd (iii) Dry HCℓ/C ₂ H ₅ OH (iv) I ₂ /NaOH	•				
	(11) 401 1001					