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Part - III CHEMISTRY, Paper-II (English Version)

Time: 3 Hours [Max. Marks: 60

Note: Read the following instructions carefully:

- (1) Answer all questions of Section 'A'. Answer any six questions from Section 'B' and any two questions from Section 'C'.
- (2) In Section 'A', Questions from Sr. Nos. 1 to 10 are of "Very short answer type". Each question carries two marks. Every answer may be limited to two to three sentences. Answer all the questions at one place in the same order.
- (3) In Section 'B', Questions from Sr. Nos. 11 to 18 are of "Short answer type". Each question carries four marks. Every answer may be limited to 75 words.
- (4) In Section 'C', Questions from Sr. Nos. 19 to 21 are of "Long answer type". Each question carries eight marks. Every answer may be limited to 300 words.
- (5) Draw labelled diagram, wherever necessary for questions in Section 'B' and 'C'.

SECTION - A

 $10 \times 2 = 20$

P.T.O.

Note: Answer all the questions:

- 1. What is Vulcanization of Rubber?
- 2. Name the Monomers present in the following polymers:
 - (a) Bakelite
 - (b) Buna-N
- 3. What are Disinfectants? Give example.
- 4. What are Food Preservatives? Give example.
- 5. Give the composition of following alloys:
 - (a) Brass
 - (b) German Silver
- What is Primary Battery? Give example.
- 7. How is chlorine manufactured by Deacon's method?

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8.	What happens when Cl_2 reacts with dry slaked lime?	
9.	Calculate the spin only magnetic moment of Fe ⁺² ion.	
10.	What are Isotonic Solutions?	
	$SECTION - B 6 \times 4 = 24$	1
	Note: Answer any six questions.	
11.	State Raoult's Law. Calculate the mole fraction of H2SO4 in a solution containing	V
	98% of H ₂ SO ₄ by mass.	
12.	Derive Bragg's Equation.	
13.	What are Emulsions? How are they classified?	,
14.	Explain the purification of sulphide ore by Froth floatation method:	
15.	Give the sources of the following Vitamins and name the diseases caused by their	
	deficiency.	
	(a) A (b) D (c) E (d) K	
16.	Explain Werner's theory of Co-ordination compounds with suitable examples.	1
17.	How are XeF ₂ and XeF ₄ are prepared? Give their structures.	
18.	Explain the following reactions:	
	(a) Sandmeyer reaction	
6.0	(b) Wurtz's Fittig reaction	
	$SECTION - C 2 \times 8 = 16$	
	Note: Answer any two questions:	
19.	(a) How is Nitric Acid manufactured by Ostwald's process?	
	(b) How does Ozone react with the following:	
	(i) PbS (ii) C ₂ H ₂	
	(iii) Ag (iv) Hg	
20.	Give a detailed account of the Collision Theory of reaction rates of bimolecular gaseous reactions.	
21.	(a) Explain the Acidic nature of phenols and compare with that of alcohols.	
	(b) With suitable example, write equations for the following:	. 1
	(i) Kolbe's reaction	
	(ii) Reimer-Tiemann reaction	
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223 ((Day-12)	8
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