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Total No. of Questions – 21	Regd.	Ţ	Ţ	Ţ	Ţ	Ţ	Ţ	Ţ	Ţ	Ţ	ן
Total No. of Printed Pages – 2	Regd. [No.										

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

Time: 3 Hours [Max. Marks: 60

Note: Read the following instructions carefully:

- (1) Answer all the 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 "Very short answer type". Each question carries two marks. Every answer may be limited to two or three sentences. Answer all these questions at one place in the same order.
- (3) In Section 'B', questions 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 diagrams, wherever necessary for questions in Section 'B' and 'C'.

SECTION – A $10 \times 2 = 20$

Note: Answer all the questions:

- 1. What is relative lowering of vapour pressure?
- 2. Give two examples for zero order Reaction.
- 3. Give the composition of the following alloys:
 - (a) Brass
- (b) Bronze
- (c) German silver
- 4. What happens when white phosphorus is heated with conc. NaOH solution in an inert atmosphere of CO₂?
- 5. How is chlorine manufactured by Deacon's Method?
- 6. What is Misch metal? Give its composition and use.
- 7. What is PHBV? How is it useful to man?

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8.	What is PDI (Poly Dispersity Index)?								
9.	What are analgesics? How are they classified?								
10.	What are antiseptics? Give examples.								
	SECTION – B $6 \times 4 = 24$								
1.1	Note: Answer any six questions:								
11.	Describe the two main types of semi-conductors and contrast their conduction mechanism.								
12.	Vapour pressure of water at 293 K is 17.535 mmHg. Calculate the vapour pressure of the solution at 293 K when 25 g of glucose is dissolved in 450 g of water?								
13.	Name any four enzyme catalysed reactions.								
14.	Explain the purification of sulphide ore by Froth Floatation Method.								
15.	How are XeF ₂ and XeF ₄ prepared ? Give their structures.								
16.	Using IUPAC norms, write the systematic names of the following:								
	(i) $[Co(NH_3)_6]Cl_3$ (ii) $[Fe(C_2O_4)_3]^{-3}$								
	(iii) $[Fe(CN)_6]^{-4}$ (iv) $[NiCl_4]^{-2}$								
17.	What are Hormones? Give one example for each (i) Steroid Hormones (ii) Polypeptide Hormones (iii) Amino Açid derivatives								
18.	Which compound in each of the following pairs will react faster in S _N 2 reaction with								
	OH ?								
	(i) CH ₃ Br (or) CH ₃ I								
	(ii) $(CH_3)_3CCl$ (or) CH_3Cl								
	$SECTION - C \qquad 2 \times 8 = 16$ Note a Arguer and two questions:								
	Note: Answer any two questions:								
19.	Give the different types of Batteries and explain the construction and working of each type of battery.								
20.	How is ozone prepared from oxygen? Explain its reaction with:								
	(i) C_2H_4 (ii) KI (iii) Hg (iv) PbS								
21.	Describe the following:								
	(i) Acetylation (ii) Cannizaro reaction								
	(iii) Cross aldol condensation (iv) Decarboxylation								
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