Total No. of Questions-30 Total No. of Pages-4

Roll No.:				
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Half Yearly Examination 2019-20

Class: 12

BSE-858

Subject: Chemistry

Time: 3.15 Hours		M.M.: 40
Note: (i)	Candidate/Student write their Ro	ll Number on the
	Question Paper Compulsory.	

- (ii) All Questions are Compulsory.
- (iii) Marks of all questions are mentioned in front of the question.
- (iv) Write all the Answer in the given Answer booklet at one place.
- What is conductor?
- Define is molarity. ₽
- Write the formula of calculating osmotic pressure.
- Write the first law of electrolysis. -
 - Which type of colloid is cheese?
 - Write the name of one are of aluminum. 1/2
 - Write the general electronic configuration of p-block ⅓ elements. =
 - Give the name of substance used in Vulcanization of rubber. 1/2
 - Write the full name of DNA. **⅓**2
 - Which method is used for concentration of sulphide ores. 1/2
 - What is the difference between Schottky and Frenkel defects. 1
 - What is the unit of rate constant of zero order reaction.

P.T.O.

(2)	
13. Draw labelled diagram of Bessemer converter.	
14. Zinc, Cadmium, Mercury are not considered as transition metals. Why?	
15. How many particles in Face centered cubic unit cell.	
16. Determine the standauel electrocle potential of Ni ⁺² /Ni electrode when cell potintial of Ni ⁺ /Ni ⁺² (1M) Cu ⁺² (1M)/Cu cell is 0.59V and half cell potential of Cu ⁺² /Cp is 0.34V.	
Why does NH ₃ form Hydrogen bond but PH ₃ does not? 1	
18. Ti ⁺⁴ ions is colourless. Give reason.	
19. How many grams of NACl will be required 40 make 500 ml	
aqueous solution of $2\% \frac{w}{v}$ NaCl.	
20. Write the names of monomer of nylon-66.	
21. Write the difference between machanism of SN ¹ and SN ² . 1	
22. Write the general formula of alcohol.	
23. Write the following acids in increasing order facielity: 1	
нсоон, сн₃сн₂соон, (сн₃)₃€ соон, сн₃соон, (сн₃)₂снсоон	
24. Write the formula of chloropicrin.	
25. How will you obtain the following from anilene:	_
Chlorobenzene araline $1+1+1=3$	
(ii) Bromobenzene	
(iii) Iodobenzene	
26. Write the Chemical equation for the following reaction:(i) Reimer Tiemann reaction	
(ii) Wurtz reaction $1+1+1=3$	
Hunsdiker reaction	

()	
13. Draw labelled diagram of Bessemer converter.	
14. Zinc, Cadmium, Mercury are not considered as transmetals. Why?	ition
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araline 1+1+1=	= 3
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(ii) Bromobenzene	
(jii) Iodobenzene	
126. Write the Chemical equation for the following reaction:	
	. 2
(ii) Wurtz reaction $R \times X + 2NQ + R - X \rightarrow S$	P-RI
Hunsdiker reaction	V. W

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27. Define enzymes. Explain mechanism of enzyme action and give two uses.
½ + 1½ + 1 = 3

28. Write the structures of A, B in the following reactions:

(i)
$$C_6H_5N_2C1 \xrightarrow{C_0CN_-} A \xrightarrow{H_2O/H^+} B$$

(ii)
$$CH_3COOH \xrightarrow{NH_3} A \xrightarrow{NnOBr} B$$

(iii)
$$CH_1Br \xrightarrow{KCN} A \xrightarrow{LIAIH_4} B$$

(iv)
$$C_6H_5N_2Cl \xrightarrow{HOH} A \xrightarrow{Br_2} B$$

OR

- (i) HCHO is more stronger reducing agent than CH₃CHO. Why?
- (ii) Write the structurel formulas of the following:
 - (a) Benzaldehydo
 - (b) Acetophenone



29. Write the IUPAC names of following co-ordination compounds:

- (i) $Zn_2[Fe(CN)_6]$
- (ii) $\left[\text{CrF}_{6} \right]^{3}$
- (iii) [Co(CN)₆]³⁶
- (iv) $\left[Fe(C_5H_5)_2 \right]$

OR

Explain the hybridization state of the central metal atom in the chapteres [Ni(CN)₄]² and [NiCl₄]² ions...

(4)

- (i) Discuss the process of cottrell precipitation by ment and labelled diagram.
- (ii) Describe the braiding arc method to prepare colloidal soln.

OR

Write short notes on the following:

- (i) Tyndall effect
- (ii) Electrophoreses
- (iii) Hardy Schulze Rule
- (iv) Brownian Movement

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