Total	N		
Total	No. of Questions-30 No. of Pages-4	Roll No.:	
H	lalf Yearly	Examination	2019-20
		Class: 12	BSE-858
	Sul	ject: Chemistry	
Tim	ie: 3.15 Hours		M.M.: 40
Note		tudent write their Rol per Compulsory.	l Number on the
	(ii) All Questions	s are Compulsory.	
	(iii)Marks of all question.	questions are mention	ed in front of the
	(iv) Write all the place.	Answer in the given Ans	wer booklet at one
تبركمه	What is conductor	r?	
4. 43.	Define is molarity		
્યુત્ર્ેક.	Write the formula	of calculating osmotic	pressure.
1.4.	Write the first law	of electrolysis.	272
Asr	Which type of co	lloid is cheese?	1/2
A.	Write the name o	f one are of aluminum.	<i>Y</i> ₂
En.	Write the gener	ral electronic configu	ration of p-block
爲.	Give the name of	substance used in Vulca	nization of rubber. 1/2

Which method is used for concentration of sulphide ores. 1/2

Write the full name of DNA.

11. What is the difference between Schottky and Frenkel defects. 1

What is the unit of rate constant of zero order reaction.

⅓2

13. Draw labelled diagram of Bessemer converter.	1
14. Zinc, Cadmium, Mercury are not considered as transition	1
metals. Why?	מכ ו
15. How many particles in Face centered cubic unit cell	1
16. Determine the standauel electrocle potential of Ni ⁺² /N electrode when cell potintial of Ni ⁺ /Ni ⁺² (1M) Cu ⁺² (1M)/C cell is 0.59V and half cell potential of Cu ⁺² /Cm is 0.34V.	li u 1
Why does NH ₃ form Hydrogen bond but PH ₃ does not?	1
18. Ti ⁺⁴ ions is colourless. Give reason.	1
19. How many grams of NACl will be required 40 make 500 r	nl
aqueous solution of $2\% \frac{w}{v}$ NaCl.	1
20. Write the names of monomer of nylon-66.	1
21. Write the difference between machanism of SN ¹ and SN ² .	1
22. Write the general formula of alcohol.	1
23. Write the following acids in increasing order facielity:	1
HCOOH, CH₃CH₂COOH, (CH₃)₃€ COOH, CH₃COOI (CH₃)₂CHCOOH	Η,
24. Write the formula of chloropicrin.	1
25. How will you obtain the following from anilene:	•
1 + 1 + 1 =	: 3
(ii) Bromobenzene	
(iii) Iodobenzene	
Write the Chemical equation for the following reaction:(i) Reimer Tiemann reaction	
(ii) Wurtz reaction	: 3
Hunsdiker reaction	
The section of the se	

K

Draw labelled diagram of Bessemer converter.	1			
14. Zinc, Cadmium, Mercury are not considered as transit metals. Why?	ior 1			
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(iii) Iodobenzene				
A6. Write the Chemical equation for the following reaction:				
(1) Keimer Tiemann				
(ii) Wurtz reaction $1+1+1=\frac{1}{2}$	5			
Hunsdiker reaction				

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...

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(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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