Shivaji University, Kolhapur

B.Sc. III Sem. V Paper XII Industrial Chemistry Examination Oct - 2020

- 3. Examination Seat Number or Roll Number of Students
- 4. Mobile Number of the student

Name of the Student *

2.

Vivekanand College, Kolhapur (Autonomous) Department of Chemistry B. Sc. III Sem. V Chemistry Theory Internal Examination Oct-2020

All the students of B.Sc. III are hereby informed that their theory Internal Examination of Chemistry will be conducted in online manner (Google Forms) on 02nd Octomber, 2020 at 02.00 pm. The Google form link will be communicated on departmental Google Classroom and What's-App group 10 min prior to examination time. The examination will be conducted only one time, students are directed to attend the examination without fail. Syllabus for examination will be as mentioned in following table.

Sr.No	Name of paper	Section	Name of section	Date	Time	
1	Physical chemistry	I	Physical chemistry	02/10/2020	1.00 2.00pm	to
2	Inorganic chemistry	II	Inorganic chemistry	03/10/2020	1.00 2.00pm	to !
3	Organic chemistry	I	Organic chemistry	04/10/2020	1.00 2.00pm	to
4	Industrial chemistry	II	Industrial chemistry	06/10/2020	1.00 2.00pm	to

TOOLHADOO

Dr. D. B. Patil

Head

Dept. of Chemistry ivekanand College. Kolhapur

B.Sc. III, Sem-V Inorganic Chemistry Oct-2020 (University)

Paper-X (Subject Code: 65824)

Instructions:

2.

3.

PRN Number *

- 1. Solve any 25 question out of 30.
- 2. Each question carries 2 marks.
- 3. Figures to the right indicate marks.

Date: 03/10/2020 to 02 pm) * Indicates required question Email * 1. Full Name of Student Exam Seat or Roll Number of Student *

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Time:1hr (01 pm

 1. According to Irving Williams for any ligand, the stability of no complexes is higher with dipositive metal ion 	netal 2 points
Mark only one oval.	,
☐ Ba²+	
∑n²+ Mn²+	
Cu ²⁺	
6. 2. The stereoisomers which do not show mirror image relation	n are called 2 points
as	
Mark only one oval.	
Enantiomers	
Distereomers	
Sterioisomerism	
Polytopal isomers	
7. 3. Complete the reaction. nPCl₅ + n NH₄Cl → + 4n H	ICI 2 points
Mark only one oval.	
(PNCl₂)n	
(PNCl₃)n	
(PNCl₃)2n	
(PNCl₂)2n	

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	tree electron theory fails to explain	2 points
	Mark only one oval.	
	Metallic character	•
	Quantitative calculations of specific conductance	1
	Metal is lattice with free electrons	
	Positive charged metal ion is embedded in the sea of electrons	
9.	5. Complete the reaction. AIH $_3$ + 3 C $_2$ H $_4$ \longrightarrow	2 points
	Mark only one oval.	
	\bigcirc AI(C ₂ H ₃) ₃ + 3H ₂	1
	Al(C₂H₅)₃	
	☐ AI + 3C ₂ H ₅	
	None of these	
10.	In polynuclear metal carbonyls , carbonyls linked withnumber of metal atoms.	2 points
	Mark only one oval.	
	2	
	More than 2	
	Zero	
11.	7. Superconductor carries electric current atresistance.	2 points
	Mark only one oval.	
	high	
	zero	no .
	Low for He	
	infinite He	ad hemistry
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1	8. Which of the following is important fluorocarbon?		2 powers
	Mark only one oval.		
	Terylene		
	Teflon		
	Nylon-6		
	silane		
			2 points
13	9. According to MOT [Ti(NH ₃) ₆] ³⁺ ion is		Z. Pomino
	Mark only one oval.		12
	Monobasic		
	Paramagnetic		
	Diamagnetic		
	Neutral		
	to the said book of the said books of the said b		2 points
14.	The bonding between hard acids and hard bases are		2 portion
	Mark only one oval.		
	Covalent		2
	Metallic		
	Neutral		
	lonic		
15.	11. Why methyl mercury cation is used to determine hardness	ss and	2 points
	softness of acids and bases ?		
	Mark only one oval.		
	It is a typical soft acids		
	It acts as an univalent ion like proton		
	It makes easier calculations	, <u>a</u>	200
	All of these	for He	ad
	a Marian	Dept. of C	hemistry lege. Kolhanur
	Vive	News	

 16. 12. The type of ionization isomerism in which coordinated ligand is 	2 points
replaced by water molecules called as	
Mark only one oval.	
Co-ordination isomerism	
Linkage losmerism	
Hydrate isomerism	
co-ordination position isomerism	
	i i
17. 13. The polymerization in which two or more simple molecules joined	2 points
together by illuminating small molecules such as water, ammonia, etc.	
called as	
Mark only one oval.	
Addition Polymerization	
Condensation Polymerization	
Co-ordination polymerization	
All of these	
18. 14. According to valence hand theory comission to the	i.
18. 14. According to valence band theory, semiconductor is a material in which between valence band and conduction band.	2 points
Mark only one oval.	
no energy gan	
no energy gap	
Very large energy gap	
Very small energy gap	
O None of these	

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9.	15. The extent of polymerization of organoberyllium compounds with increase in bulkyness of alky and aryl group.	2 points
		1
	Mark only one oval.	
	Increase	
	Decrease	
	Remains same	
	none of these	
		*
	16. In trialkyl aluminium dimer Al-C-Al bridging bond is	2 points
	Mark only one oval.	
	(3C-2e)	
	(2C-2e)	
	(3C-1e)	
	(3C-3e)	
	17is responsible for conduction of electricity in n-type	2 points
	semiconductor.	
	Mark only one oval.	
	Proton	
	Neutron	
	Hole	
	Electron	
		CAD: CAD

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25. 21. In the determination softness and hardness of base by memorial mercury cation gets equation (K=Ks. Ka). In this equation if K one, then base is	ethyl 2 points is less than
Mark only one oval.	
Soft	
Hard	+
Borderline	
Can not predict	
26. 22. Hexa-amide nickel (II) ion complex is due to prestwo unpaired electrons.	ence of 2 points
Mark only one oval.	
Paramagnetic	
Diamagnetic	
Ferromagnetic	
All of these	
	1
27. 23. When the graphite is heated in the steam of fluorine at 420°C-460°C is formed.	2 points
Mark only one oval.	
Phophor tri-fluoromethane	
Carbon monofluoride	
Chlorofluoro carbon	7
None of these	
	· Dolla -

25.

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2	24. Which method used for the preparation of high critical temperature superconductors on bulk scale?	2 points
	Mark only one oval.	
	Sintering method	
	Chemical vapour deposition method	i
	Electro-deposition	MAT II
	Chemical deposition	
		ı
29	. 25. What is the hybridization of Cr(CO)₅ complex?	2 points
	Mark only one oval.	
	◯ sp³	+
	◯ sp³d²	
	☐ d²sp³	
	◯ sp²	
30.	26. In methyl lithium, lithium atoms are situated at	2 points
	Mark only one oval.	
	Alternative corners of cube	
	the faces of cube	
	Middle of the cube	
	None of these	

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2 points

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B.Sc. III Sem. V Paper XII Industrial Chemistry Examination Oct - 2020

Subject Code: 65826 Instructions:		i
1) Solve any 25 questions out of 30 2) Select the correct alternative for to 3) Each question carries 2 marks 4) Figures at right indicates marks Date: Tuesday, 06th October, 2020	he given question Time:1.00 pm to 2.00 p	m (1 hr)
* Indicates required question		
1. Email *		
		a <mark>r</mark> Ny r
2. Name of the Student *		
Examination Seat Number or Roll Number of	f Students	

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Mobile Number of the student

9.	N2 : H2 =	ation of * 2 points
	Mark only one oval.	
	1:2	
	1:1	
	1:3	
	3;;1	
10.	Catalyst used in Haber process iswith promoter molybdenum.	* 2 points
	Mark only one oval.	
	☐ Fe	
		í
	Pt	*
	С	
11.	7) If oxide film is removed by any means, passivated metal can be converted into form.	2 points
	Mark only one oval.	
	active	
	inactive	
	inert	
	osoft	
		& Dike

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- 13	the work of	2 points
	Mark only one oval.	
	Faraday	i i
	Ostwald	**
	Whitney	
	Evans	į.
16	AND A STATE OF THE	
16.	12) Self stifling corrosion.	2 points
	Mark only one oval.	
	prevents	
	promotes	
	decreases	1
	all of the above	
17.	13) If impurities present in technical metals are less reactive than metal itself, then they corrosion.	2 points
	Mark only one oval.	
	decreases	
		i
	promotes	
	suppresses	
	first increases and then decreases	

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18	. 14) Passivity removing reagents are	2 points
	Mark only one oval.	
	reducing agents	
	oxidising agents	
	Lewis acids	
	buffers	
19.		2 points
	improves resolution of	i
	Mark only one oval.	
	methods	
	analysis	
	TV screens and Computer monitors	٠.
	data	
		. (
20.	16) Nanocrystalline silicon carbide (SiC) is used for	2 points
	Mark only one oval.	
	watches	£
	artificial heart valves	Î
	mobile batteries	
	all of the above	7. 6 7

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21. 17) Chemicals which are consumed on commercial scale called as	2 paints
Mark only one oval.	
industrial	
toxic	1
heavy	
king	
	3
 18) In the yearEarnest Solvay successfully started the plant for manufacture of soda ash. 	2 points
Mark only one oval.	
	Å.
1895	·
1865	
1915	
1774	
23. 19) In corrosion at cathode gas is evolved.	2 points
Mark only one oval.	2 points
02	
O2	
○ N2	
C02	1

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24.	20)is essentia	al for corrosion.	2 points
	Mark only one oval.		2 points
	solid		
	gas		
	water		
	liquid		
25.	21) Bagasse is used for	or	2 points
	Mark only one oval.		Ĭ.
	seeding		
	extraction of juices	s	
	manufacturing of c	celotex	
	fermentation		1
26.	22) Carbonation is carr	ried out with	2 points
	Mark only one oval.		
	magnesium carbor	nate	
	alcium carbonate		,
	opotassium carbona	ate	
	silicon carbonate		
27.	23) Shaving soap is a m	nixed soap of Sodium and	2 points
	Mark only one oval.		
	Potassium		
	Calcium		
	Magnesium		
	Cesium		enliva
	795		A. A.

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Department of Chemistry

Paper XII Industrial Chemistry internal Examination Oct - 2020

Timestamp	Username	Total score	Name of the Student
2020/10/06 1:32:14 pm GMT+5:30	khadeshubham98@gmail.com	46.00 / 60	Shubham Chandrakant khade
2020/10/06 1:34:12 pm GMT+5:30	ksanket1498@gmail.com	48.00 / 60	Sanket Jagannath Kamble
2020/10/06 1:40:48 pm GMT+5:30	vdshinde19992016@gmail.com	54.00 / 60	Vinay Dilip Shinde
2020/10/06 1:44:03 pm GMT+5:30	misbamomin19@gmail.com	46.00 / 60	Misba Iliyas Momin.
2020/10/06 1:44:39 pm GMT+5:30	anmolpatil6464@gmail.com	46.00 / 60	Anmol Vijay Patil
2020/10/06 1:47:14 pm GMT+5:30	pr025ghungurkar@gmail.com	58.00 / 60	Pratik Rajaram Ghungurkar
	sh.amruta18@gmail.com	52.00 / 60	Amruta Anil shingare

