

ROLL NO. _____

SUPERVISORS SIGN : _____

**UNIVERSITY OF MUMBAI'S
GARWARE INSTITUTE OF CAREER EDUCATION & DEVELOPMENT
B.SC.(PAINT TECHNOLOGY) (BPT)
ENTRANCE EXAM**

DATE : 06-Apr-24

TIME : 11 AM TO 12 NOON

MARKS : 50

NOTE DO NOT CARRY MOBILE / DIGITAL WATCH IN THE EXAMINATION HALL
 PLEASE TICK THE CORRECT ANSWER (2 MARKS EACH)

SR. NO	QUESTION TEXT	OPTION 1	OPTION 2	OPTION 3	OPTION 4
1	Communication is a _____ process.	Three-way	Two-way	Four-way	Five-way
2	Raju age after 15 years will be 5 times his age 5 years back, What is the present age of Raju	15	12	10	20
3	Who hosts the flag on Independence Day at Delhi Fort?	President	Chief Justice	Prime Minister	Vice President
4	Functional group present in Glucose is	Ester	Alcohol	Ketone	Aldehyde
5	pH value of hydrogen chloride in water	2	7	14	6
6	How many periods & groups are there in periodic table?	18 periods & 7 groups	14 periods & 6 groups	18 groups & 7 periods	14 periods & 6 groups
7	0 degree Celsius =	373.15	173.15	288.15	273.15
8	Full form of IUPAC	International Union of Pure & Applied chemistry	Indian Union of Pure & Applied chemistry	International Union of Practical & applied chemistry	None of the above
9	Asian Paint is from which country?	India	China	Pakistan	USA
10	Formula of Alkane	C_nH_{2n+2}	C_nH_{2n+1}	C_nH_{2n-2}	All of the above
11	Aromatic compound consists of	Ring structure	Straight chain	Branched chain	All of the above
12	d-orbitals consists of how many electrons?	2	8	12	10

P.T.O.

SR. NO	QUESTION TEXT	OPTION 1	OPTION 2	OPTION 3	OPTION 4
13	Atomic number of hydrogen is	3	1	5	20
14	Methane is	Aromatic compound	Cyclic compound	Aliphatic compound	All of the above
15	Molecular weight of water is	25	18	10	32
16	Which one is Inert gas?	Oxygen	Carbon	Silicon	Helium
17	Benzene has chemical formula of	C5H6	C6H6	C4H5	C6H4
18	Molecular weight of HCl is	36.5	25.5	35.5	37
19	What is the name of compound H2O2?	Hydrogen dioxide	Hydrogen peroxide	Hydrogen tetraoxide	None of the above
20	Kansai Nerolac is the business of the following organization	Automobile	Paint	Textile	Oil and Gas
21	Which of the following is inorganic solvent	Water	Ethanol	Acetone	Toluene
22	Functional group of acid is	hydroxyl group	Carboxylic group	Carbonyl Group	Amino group
23	Which of the following is metal?	Carbon	Helium	Iron	Chloride
24	Unsaturated hydrocarbon must have -----	Single bonds	Double bonds	Triple bonds	All of the above
25	Chemical formula of sodium chloride	KCl	NaOH	NaCl	H2O

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UNIVERSITY OF MUMBAI'S
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B.SC.(PAINT TECHNOLOGY) (BPT)
ENTRANCE EXAMINATION

DATE :18-May-24

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SR. NO	QUESTION TEXT	OPTION 1	OPTION 2	OPTION 3	OPTION 4
1	who heads the RBI	president	prime minister	governor	government
2	what is the most literate state in india?	kolkata	kerala	Lucknow	maharashtra
3	Who hosts the flag on Independence Day at Delhi Fort?	President	Chief Justice	Prime Minister	Vice President
4	what is the longest river in the world?	amazon river	nile river	yellow river	Parana river
5	pH value of buffer solution is	2	7	4	10
6	Capital of Uttar Pradesh	Pune	Mumbai	Lucknow	Patna
7	Highest electron negative atom in periodic table are given as follows	Boron	oxygen	Carbon	nitrogen
8	IUPAC name of compound (CH ₃ OCH ₃)	dimethyl ketone	acetone	dimethyl ketone	dimethyl ether
9	Asian Paint headquarter in ?	Kashmir	Mumbai	Lucknow	Patna
10	the grignard reagent is	Rh(pph ₃) ₃	RMgX	H ₂ Pd	raney nickel
11	ATP stands for	adenosine tri phosphate	any type phosphate	adenine tri pyrine	All of the above
12	Na contain how many electrons in their outer orbital?	2	8	1	11
13	valency of the nitrogen atom	3	1	6	7
14	The cathode is-----charged	positively	negatively	neutral	none of above
15	Molecular weight of water is	25	18	10	32
16	the conversion of solid to direct gas this process is known as---	sublimation	boiling point	melting point	crystalisation
17	the molecular formula of acetic acid is	C ₅ H ₆ OH	C ₂ H ₆ OH	CH ₃ CH ₂ OH	CH ₃ COOH
18	Molecular formula of Sulphuric acid (H ₂ SO ₄) is	96	64	98	108
19	Electron configuration of oxygen is	1s ² 2s ² 2p ³	1s ² 2s ² 2p ⁴	1s ² 2s ² 2p ¹	1s ² 2s ² 2p ⁵
20	Kansai Nerolac is the business of the following organization	Food	Paint	Textile	Oil and Gas
21	Which of the following is inorganic solvent	Toluene	Ethanol	Acetone	Water
22	Functional group of ketone	ROH	R-O-R	R-CO-R	R-CO-H
23	Which are the following is inorganic compound	CH ₃ COOH	CH ₃ OH	TiO ₂	CH ₃ CHO
24	Chemical formula of Glucose	C ₆ H ₁₁ O ₅	C ₆ H ₁₂ O ₆	C ₂ H ₄ O ₅	All of the above
25	the following technique is used to identify and separation of compound	TLC	thermogravimetry	sublimation	crystalisation

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16	Which one is Inert gas?	Oxygen	Carbon	Silicon	Helium
17	Benzene has chemical formula of	C ₅ H ₆	C ₆ H ₆	C ₄ H ₅	C ₆ H ₄
18	Molecular weight of HCl is	36.5	25.5	35.5	37
19	What is the name of compound H ₂ O ₂ ?	Hydrogen dioxide	Hydrogen peroxide	Hydrogen tetraoxide	None of the above
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23	Which of the following is metal?	Carbon	Helium	Iron	Chloride
24	Unsaturated hydrocarbon must have -----	Single bonds	Double bonds	Triple bonds	All of the above
25	Chemical formula of sodium chloride	KCl	NaOH	NaCl	H ₂ O

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UNIVERSITY OF MUMBAI'S
GARWARE INSTITUTE OF CAREER EDUCATION & DEVELOPMENT
B.SC. (PAINT TECHNOLOGY)

DATE : 05/07/25

ENTRANCE EXAMINATION

TIME : 11 AM to 12 PM MARKS : 50

SR. NO	QUESTION TEXT	OPTION 1	OPTION 2	OPTION 3	OPTION 4
1	who heads the RBI	president	prime minister	governor	government
2	what is the most literate state in india?	kolkata	kerala	Lucknow	maharashtra
3	Who hosts the flag on Independence Day at Delhi Fort?	President	Chief Justice	Prime Minister	Vice President
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5	pH value of buffer solution is	2	7	4	10
6	Capital of Uttar Preash	Pune	Mumbai	Lucknow	Patna
7	Highest electron negative atom in periodic table are given as follows	Boron	oxygen	Carbon	nitrogen
8	IUPAC name of compound (CH ₃ OCH ₃)	dimethyl ketone	acetone	dimethyl ketone	dimethyl ether
9	Asian Paint headquater in ?	Kashmir	Mumbai	Lucknow	Patna
10	the grignard reagent is	Rh(pph ₃) ₃	RMgX	H ₂ Pd	raney nickel
11	ATP stands for	adenosine tri phosphate	any type phosphate	adenine tri pyrine	All of the above
12	Na contain how many electrons in their outer orbital?	2	8	1	11
13	valency of the nitrogen atom	3	1	6	7
14	The cathode is-----charged	positively	negatively	nuetral	none of above
15	Molecular weight of water is	25	18	10	32
16	the conversion of solid to direct gas this process is known as---	sublimation	boiling point	melting point	crystalisation

17	the molecular formula of acetic acid is	C5H6OH	C2H6OH	CH3CH2OH	CH3COOH
18	Molecular formula of Sulphuric acid (H2SO4) is	96	64	98	108
19	Electron configuration of oxygen is	1s2 2s2 2p3	1s2 2s2 2p4	1s2 2s2 2p1	1s2 2s2 2p5
20	Kansai Nerolac is the business of the following organization	Food	Paint	Textile	Oil and Gas
21	Which of the following is inorganic solvent	Toluene	Ethanol	Acetone	Water
22	Functional group of ketone	ROH	R-O-R	R-CO-R	R-CO-H
23	Which are the following is inorganic compound	CH3COOH	CH3OH	TiO2	CH3CHO
24	Chemical formula of Glucose	C6H11O5	C6H12O6	C2H4O5	All of the above
25	the following technique is used to identify and separation of compound	TLC	thermogravimetry	sublimation	crystalisation

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GARWARE INSTITUTE OF CAREER EDUCATION & DEVELOPMENT
B.SC. (PAINT TECHNOLOGY)
ENTRANCE EXAMINATION

DATE : 08/06/2025

TIME : 11.00 To 12.00 MARKS : 50

SR. NO	QUESTION TEXT	OPTION 1	OPTION 2	OPTION 3	OPTION 4
1	sugar is dissolve in water due to	sugar is non -polar	water is polar	H bonding	both polar
2	what is the most literate state in india?	kolkata	kerala	Lucknow	maharashtra
3	Who hosts the flag on Independence Day at Delhi Fort?	President	Chief Justice	Prime Minister	Vice President
4	what is the longest river in the world?	amazon river	nile river	yellow river	Parana river
5	which of the following is the amorphous solid ?	NaCl	KOH	CaCO ₃	KMNO ₄
6	Capital of Uttar Preash	Pune	Mumbai	Lucknow	Patna
7	Highest electron negative atom in periodic table are given as follows	F	Cl	Br	I
8	IUPAC name of compound (CH ₃ -CH ₂ -CH ₂ -OH)	propanol	butanol	iso propanol	All of the above
9	Asian Paint headquater in ?	Kashmir	Mumbai	Lucknow	Patna
10	the grignard reagent is	Rh(pph ₃) ₃	RMgX	H ₂ Pd	raney nickel
11	ATP stands for	adenosine tri phosphate	any type phosphate	adenine tri pyrine	All of the above
12	Na contain how many electrons in their outer orbital?	2	8	1	11
13	valency of the nitrogen atom	3	1	6	7
14	The cathode is-----charged	positively	negatively	nuetral	none of above
15	Molecular weight of water Is	25	18	10	32
16	the conversion of solid to direct gas this process is known as---	sublimation	boiling point	melting point	crystalisation
17	what is mean by oxidation?	gain of electron	loss of electron	gain of hydrogen	addition of hydrogen
18	O ₂ molecule is -----	paramagnetic	ferromagnetic	diamagnetic	ferrimagnetic
19	Electron configuration of oxygen is	1s ² 2s ² 2p ³	1s ² 2s ² 2p ⁴	1s ² 2s ² 2p ¹	1s ² 2s ² 2p ⁵
20	Kansai Nerolac is the business of the following organization	Food	Paint	Textile	Oil and Gas
21	Which of the following is inorganic solvent	Toluene	Ethanol	Acetone	Water
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23	Which are the following is inorganic compound	CH ₃ COOH	CH ₃ OH	TiO ₂	CH ₃ CHO
24	Chemical formula of Glucose	C ₆ H ₁₁ O ₅	C ₆ H ₁₂ O ₆	C ₂ H ₄ O ₅	All of the above
25	What is the full form of DNA	deoxyribonucleic acid	deoxy ribose nucleic acid	deoxygenase acid	none of above

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UNIVERSITY OF MUMBAI'S
GARWARE INSTITUTE OF CAREER EXAUCATION & DEVELOPMENT
B.SC. (PAINT TECHNOLOGY)
ENTRANCE EXAMINATION

DATE : 03-05-2025

TIME : 11 AM TO 12 NOON

MARKS : 50

SR. NO	QUESTION TEXT	OPTION 1	OPTION 2	OPTION 3	OPTION 4
	Note : 2 MARKS EACH				
1	Which solid structure has a definite and sharp melting point?	Amorphous solid	Water	Crystalline solid	all of above
2	What is the term for a liquid dispersion in another liquid?	Emulsion	Gel	Foam	Aerosol
3	Which of the following is not a suitable ore for extracting iron?	Hematite	Bauxite	magnetite	iron pyrites
4	Capital of maharashtra ?	Nagpur	Mumbai	Pune	Nashik
5	_____ element has properties of both alkali metals and halogens.	Helium	Hydrogen	Nitrogen	Chlorine
6	What is the lanthanide's series first element?	cerium	lanthanum	Thorium	fluorine
7	Valency of the carbon atom	one	three	four	two
8	What is full form of RNA?	Ribonucleic acid	Ribosome nucleic acid	Reverse numerical addition	Deoxy ribo nucleic acid
9	Which of the following is Non-Polar solvent ?	water	ethanol	xylene	HCl
10	What is the functional group of ether ?	COR	R-O-R	R-CO-R	R-CO-H
11	What is the chemical formula of Aniline ?	C6H5NH2	C4H5NH3	C5H5NH	C6H5NH2O
12	Which are the following is inorganic compound	CH3COOH	CH3OH	TiO2	CH3CHO
13	Chemical formula of Glucose	C6H11O5	C6H12O6	C2H4O5	All of the above
14	Asian Paint headquarter in ?	Kashmir	Mumbai	Lucknow	Patna
15	Molecular formula of Sulphuric acid (H2SO4) is	96	64	98	108
16	Electron configuration of fluorine is	1s2 2s2 2p5	1s2 2s2 2p4	1s2 2s2 2p1	1s2 2s2 2p6
17	Ketone is reacted with grignard reagent gives	ester	aldehyde	Tertiary alcohol	ether
18	What is the hybridization of NH3 molecule	Sp	Sp2	Sp3	all of above
19	What is the Geometry for CH4 Molecule	square plannar	Tetrahedral	Pentagonal	Trigonal Bipyramidal
20	The IUPAC nomenclature of CH3-CH2-CO- CH3	methyl ketone	ethyl methyl aldehyde	2 - Butanone	3-Butunol
21	How many vowels are in english	26	6	5	7
22	What is mean by oxidation?	gain of electron	loss of electron	gain of hydrogen	addition of hydrogen
23	What is the largest river in India ?	Nile	Amazon	Ganga	Bramhaputra
24	Benzene has molecular formula is --	C6H3	C6H6	C6H12	C6H5O
25	what is the most literate state in india?	kolkata	kerala	Lucknow	maharashtra

Q 6. Benzene is 2.00 Marks(Easy)
A) Aromatic compound B) Hetrocyclic compound C) Aliphatic compound
D) All of the above

Q 7. Berger is the business of the following organization 2.00 Marks(Easy)
A) Food B) Paint C) Textile
D) Oil and Gas

Q 8. Capital of India is 2.00 Marks(Easy)
A) Mumbai B) Kolkata C) Lucknow
D) New Delhi

Q 9. Capital of Maharashtra 2.00 Marks(Easy)
A) Pune B) Mumbai C) Nashik
D) Nagpur

Q 10 Chemical formula of Glucose 2.00 Marks(Easy)
A) C₆H₁₁O₅ B) C₆H₁₂O₆ C) C₂H₄O₅
D) All of the above

Q 11 Chemical formula of potassium chloride 2.00 Marks(Easy)
A) KCl B) NaOH C) KOH
D) H₂O

Q 12 Example of inert gas is 2.00 Marks(Easy)
A) Chlorine B) Helium C) Hydrogen
D) Oxygen

Q 13 Formula of Alkyne

2.00 Marks(Easy)

- A) C_nH_{2n+2} B) C_nH_{2n+1} C) C_nH_{2n-2}
D) All of the above
-

Q 14 Functional group of Aldehyde is

2.00 Marks(Easy)

- A) CHO B) OH C) NH₂
D) None of the above
-

Q 15 IUPAC name of methyl alcohol (CH₃OH)

2.00 Marks(Easy)

- A) Methanol B) Butanol C) Propanol
D) Ethenal
-

Q 16 Molecular weight of water is

2.00 Marks(Easy)

- A) 25 B) 18 C) 10
D) 32
-

Q 17 pH value of aqueous NaOH in water

2.00 Marks(Easy)

- A) 2 B) 7 C) 5
D) 10
-

Q 18 p-orbitals consists of how many electrons in their orbital?

2.00 Marks(Easy)

- A) 2 B) 8 C) 12
D) 6
-

Q 19 Rabindranath Tagore composed the Nation Anthem for _____

2.00 Marks(Easy)

- A) India and Bangladesh B) India and Pakistan C) India and China
D) India and Sri Lanka
-

Q 13 How many periods & groups are there in periodic table? 2.00 Marks(Easy)

- A) 18 periods & 7 groups B) 14 periods & 6 groups C) 18 groups & 7 periods
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Q 14 Kansai Nerolac is the business of the following organization 2.00 Marks(Easy)

- A) Automobile B) Paint C) Textile
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Q 15 Methane is 2.00 Marks(Easy)

- A) Aromatic compound B) Cyclic compound C) Aliphatic compound
D) All of the above
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Q 16 Molecular weight of HCl is 2.00 Marks(Easy)

- A) 36.5 B) 25.5 C) 35.5
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Q 17 Molecular weight of water is 2.00 Marks(Easy)

- A) 25 B) 18 C) 10
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Q 18 pH value of hydrogen chloride in water 2.00 Marks(Easy)

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Q 19 Raju age after 15 years will be 5 times his age 5 years back, What is the present age of Raju 2.00 Marks(Easy)

- A) 15 B) 12 C) 10
D) 20
-

Q 20 Unsaturated hydrocarbon must have -----

2.00 Marks(Easy)

- A) Single bonds B) Double bonds C) Triple bonds
D) All of the above
-

Q 21 What is the name of compound H₂O₂?

2.00 Marks(Easy)

- A) Hydrogen dioxide B) Hydrogen peroxide C) Hydrogen tetraoxide
D) None of the above
-

Q 22 Which of the following is inorganic solvent

2.00 Marks(Easy)

- A) Water B) Ethanol C) Acetone
D) Toluene
-

Q 23 Which of the following is metal?

2.00 Marks(Easy)

- A) Carbon B) Helium C) Iron
D) Chloride
-

Q 24 Which one is Inert gas?

2.00 Marks(Easy)

- A) Oxygen B) Carbon C) Silicon
D) Helium
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Q 25 Who hosts the flag on Independence Day at Delhi Fort?

2.00 Marks(Easy)

- A) President B) Chief Justice C) Prime Minister
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D) Oil and Gas
-

Q 8. Capital of India is 2.00 Marks(Easy)

- A) Mumbai B) Kolkata C) Lucknow
D) New Delhi
-

Q 9. Capital of Maharashtra 2.00 Marks(Easy)

- A) Pune B) Mumbai C) Nashik
D) Nagpur
-

Q 10 Chemical formula of Glucose 2.00 Marks(Easy)

- A) $C_6H_{11}O_5$ B) $C_6H_{12}O_6$ C) $C_2H_4O_5$
D) All of the above
-

Q 11 Chemical formula of potassium chloride 2.00 Marks(Easy)

- A) KCl B) $NaOH$ C) KOH
D) H_2O
-

Q 12 Example of inert gas is 2.00 Marks(Easy)

- A) Chlorine B) Helium C) Hydrogen
D) Oxygen
-

Q 13 Formula of Alkyne

2.00 Marks(Easy)

- A) C_nH_{2n+2} B) C_nH_{2n+1} C) C_nH_{2n-2}
D) All of the above
-

Q 14 Functional group of Aldehyde is

2.00 Marks(Easy)

- A) CHO B) OH C) NH₂
D) None of the above
-

Q 15 IUPAC name of methyl alcohol (CH₃OH)

2.00 Marks(Easy)

- A) Methanol B) Butanol C) Propanol
D) Ethenal
-

Q 16 Molecular weight of water is

2.00 Marks(Easy)

- A) 25 B) 18 C) 10
D) 32
-

Q 17 pH value of aqueous NaOH in water

2.00 Marks(Easy)

- A) 2 B) 7 C) 5
D) 10
-

Q 18 p-orbitals consists of how many electrons in their orbital?

2.00 Marks(Easy)

- A) 2 B) 8 C) 12
D) 6
-

Q 19 Rabindranath Tagore composed the Nation Anthem for _____

2.00 Marks(Easy)

- A) India and Bangladesh B) India and Pakistan C) India and China
D) India and Sri Lanka
-

Q 13 How many periods & groups are there in periodic table? 2.00 Marks(Easy)

- A) 18 periods & 7 groups B) 14 periods & 6 groups C) 18 groups & 7 periods
D) 14 periods & 6 groups
-

Q 14 Kansai Nerolac is the business of the following organization 2.00 Marks(Easy)

- A) Automobile B) Paint C) Textile
D) Oil and Gas
-

Q 15 Methane is 2.00 Marks(Easy)

- A) Aromatic compound B) Cyclic compound C) Aliphatic compound
D) All of the above
-

Q 16 Molecular weight of HCl is 2.00 Marks(Easy)

- A) 36.5 B) 25.5 C) 35.5
D) 37
-

Q 17 Molecular weight of water is 2.00 Marks(Easy)

- A) 25 B) 18 C) 10
D) 32
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Q 18 pH value of hydrogen chloride in water 2.00 Marks(Easy)

- A) 2 B) 7 C) 14
D) 6
-

Q 19 Raju age after 15 years will be 5 times his age 5 years back, What is the present age of Raju 2.00 Marks(Easy)

- A) 15 B) 12 C) 10
D) 20
-

Q 20 Unsaturated hydrocarbon must have -----

2.00 Marks(Easy)

- A) Single bonds B) Double bonds C) Triple bonds
D) All of the above
-

Q 21 What is the name of compound H₂O₂?

2.00 Marks(Easy)

- A) Hydrogen dioxide B) Hydrogen peroxide C) Hydrogen tetraoxide
D) None of the above
-

Q 22 Which of the following is inorganic solvent

2.00 Marks(Easy)

- A) Water B) Ethanol C) Acetone
D) Toluene
-

Q 23 Which of the following is metal?

2.00 Marks(Easy)

- A) Carbon B) Helium C) Iron
D) Chloride
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Q 24 Which one is Inert gas?

2.00 Marks(Easy)

- A) Oxygen B) Carbon C) Silicon
D) Helium
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Q 25 Who hosts the flag on Independence Day at Delhi Fort?

2.00 Marks(Easy)

- A) President B) Chief Justice C) Prime Minister
D) Vice President
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SEAT NO. _____

SUPERVISOR'S SIGN _____

UNIVERSITY OF MUMBAI'S
GARWARE INSTITUTE OF CAREER EDUCATION AND DEVELOPMENT
BACHELOR IN PAINT TECHNOLOGY
ENTRANCE EXAMINATION

DATE : July 11, 2017

TIME 11 AM TO 12 NOON

MARKS : 50

Q. I] Define the following : (20 marks)

1) Normality is -----

2) Boiling Point is -----

3) Isobaric Process is -----

4) Antibiotic is -----

5). Endothermic Reaction is -----

6) pOH is -----

7) Neutron No is -----

8) Galvanization is -----

9) Saponification is -----

10) Antacid is -----

Q.II] Circle your choice as a, b, c or d... (20 marks)

- 1) Which out of the following is not a thermodynamic property...
a. Time, b. Temperature, c. Pressure, d. Volume
- 2) When a gas expands in a vacuum, the work done by the gas is ...
a. Maximum b. Zero, c. Less than Zero, d. More than Zero.
- 3) What is nature of the salt FeCl_3 ...
a. Acidic, b. Basic, .c. Neutral, d. Amphoteric.
- 4) A buffer solution is one which has
a. Reserve acidity, b. Reserve basicity, c. $\text{pH} = 7$, d. Reserve acidity and Reservebasicity
- 5) Brass consists of
a. Zn & Cu, b. Zn & Sn, c. Cu, Sn & Zn, d. Zn, Ni & Sn
- 6) Chloroform on complete reduction gives
a. CH_4 , b. CH_2Cl_2 , c. CH_2Cl , d. CH_3CH_3
- 7) Phenol is
a. Acidic, b. Neutral, c. Basic, d. Amphoteric
- 8) The no of Neutrons in the Nucleus of an atom is represented by
a. $A - Z$, b. $Z - A$, c. A , d. Z
- 9) The rate of reaction depends on
a. Concentration of reactants, b. Temperature , c. Catalyst, d. All of these.
- 10) Which of the following sugars can be used to prepare Glucose on a large scale.
a. Cellulose, b. Cane sugar, c. Galactose, d. Starch
- 11) The length of a rectangle is increased by 20% and the breadth decreased by 20% then the area,
a. Decreases by 20%, b. Decreases by 4%, c. Remains the same,
d. Increases by 20%

12) $x + y = 3$ and $y/x = 2$, then $y =$,
a. $1/2$, b. 1, c. $3/4$, d. 2

13) 0.03 times 0.05 is ...
a. 15%, b. 1.5%, c. 0.15%, d. 0.015%

14) A car wash can wash 8 cars in 18 minutes. At this rate how many cars can be washed in 3 hours..
a. 13, b. 18, c. 125, d. 405.

15) The next number in the geometric progression, 5, 10, 20, is
a. 25, b. 30, c. 40, d. 50

16) A chair originally costs Rs 200/- . It was offered for sale @108% of the cost. After a week, the price was discounted by 10% and sold. The chair was sold for..
a. Rs 180, b. Rs 194.40, c. Rs 196, d. Rs 216.

17) If the angles of a triangle are in the ratio of 1:2:2, then the triangle is
a. Isosceles, b. Obtuse, c. Right angle, d. Equilateral.

18) If 5 men take 2 hours to dig a ditch, how long it will take 12 men to dig the ditch..
a. 45 minutes, b. 50 minutes, c. 60 minutes, d. 84 minutes

19) The product of 2 nos is 10, and the sum of 2 nos is 7, then larger of the two nos is
a. - 2, b. 2, c. 3, d. 5

20) The sum of 5 consecutive integers is 35, how many of the 5 consecutive nos are prime nos.
a. 1, b. 2, c. 3, d. 4.

Q.III. Expand the following abbreviations (2 marks)

1). WHO

2). IPL

3). P.T.O.

4). N.B.

Q.IV. Write the Molecular formula of the following (3 marks)

1) Potassium Dichromate

2) Sodium Thiosulphate

3) Formaldehyde

4) Hydrogen Peroxide

5) Chloroform

6) Sulphuric Acid

Q.V. What is the business of the following Organisations (3 marks)

1) Blue Dart

2) Godrej and Boyce Ltd

3) H D F C

4) Subway

5) Hero Honda

6) Shalimar

Q. VI. Where are the following situated.. (2 marks)

1) Nehru Planetarium

2) Howrah Bridge

3) Vrindavan Gardens

4) Sabarmati Ashram

**UNIVERSITY OF MUMBAI'S
GARWARE INSTITUTE OF CAREER EDUCATION AND DEVELOPMENT
BACHELOR OF PAINT TECHNOLOGY (B.P.T.)
ENTRANCE EXAMINATION**

SECOND ROUND

DATE : 03-AUG-2017

TIME : 11 AM TO 12 NOON

MARKS : 50

Q. I] Define the following

(20 marks)

1) Molality is -----

2) Isothermal Process is -----

3) Joule is -----

4) A homogeneous system is -----

5) pH is -----

6) Electrolysis is -----

7) Atomic number is -----

8) Phenols are -----

9) Fats are -----

10) Disinfectants are -----

Q II] Circle the answer of your choice a,b,c,or d (20 marks)

- 1) Thermodynamics is concerned with,
a) only the initial state of the system b) only the final state of the system
c) only the time taken by the system d) both the initial & final state of the system.
- 2) Which of the following is not a state function,
a) Enthalpy b) Internal Energy c) Work d) Pressure
- 3) If the acid is diluted,
a) pH increases b) pH decreases c) no change d) vary depending on the acid
- 4) Galvanisation process is,
a) deposition of Zn on iron b) deposition of Aluminium on iron.
c) deposition of Nickel on iron d) deposition of Copper on iron.
- 5) Chloroform is readily soluble in,
a) ether b) acetone c) water d) both a and b
- 6) Carboic acid is,
a) caboxylic acid b) picric acid c) o-nitro phenol d) phenol

- 7) Cane sugar on hydrolysis gives,
a) glucose and maltose b) glucose and lactose
c) glucose and fructose d) only glucose.
- 8) The treatment of disease by the use of chemical substance is termed as,
a) angiotherapy b) chemotherapy c) physiotherapy d) homoeotherapy
- 9) Solution of Phenol is used as,
a) an antibiotic b) an analgesic c) an antioxidant d) a disinfectant.
- 10) Chloromycetin is effective in the treatment of,
a) cholera b) typhoid c) tuberculosis d) malaria
- 11) If a worker makes 4 boxes of labels in 1 hr 40 mins, how many boxes of labels can he make in 50 mins.
a) 2 b) 2.3 c) 2.6 d) 3
- 12) If $x + y = 4$ and $x - y = 3$ then $x + 2y$ is
a) 3.5 b) 4 c) 4.5 d) 7.5
- 13) A tank contains 100 litres of water, if a pump takes $15 - x/10$ minutes to pump 10 litres of water out of the tank, how many minutes will it take for the pump to empty the tank?
a) $15 - 10x$ b) $150 - 10x$ c) $150 - x$ d) $15 - 10x$
- 14) If the area of a square increases by 69%, then the side of the square increases by
a) 13% b) 30% c) 39% d) 69%
- 15) If 0.2% of x is 0.03, then x is
a) 150 b) 15 c) 1.5 d) 6.7
- 16) The next number in the arithmetical progression 5, 11, 17, is
a) 22 b) 23 c) 28 d) 18
- 17) If the length of the two sides of a right triangle adjacent to the right angle are 8 and 15 respectively, then the length of the side opposite the right angle is,
a) 15.8 b) 16 c) 17 d) 17.9
- 18) If the product of 3 consecutive integers is 210, then the sum of the two smaller integers is,
a) 5 b) 11 c) 12 d) 13

19) If the radius of a sphere is increased by a factor of 2, then the volume of the sphere is increased by a factor of,

- a) 2 b) 4 c) 6 d) 8

20) If the product of two numbers is 5, and one of the number is $3/2$, then the sum of the two numbers is,

- a) $4 \frac{1}{3}$ b) $4 \frac{5}{6}$ c) $5 \frac{1}{6}$ d) $6 \frac{1}{2}$

Q III] Expand the following abbreviations (2 marks)

- 1) ILO
- 2) IPS
- 3) MBA
- 4) GST

Q IV] Write the molecular formula of, (3 marks)

- 1) Potassium Permanganate
- 2) Iodoform
- 3) Acetaldehyde
- 4) Phosphoric acid
- 5) Methane
- 6) Sodium Carbonate

Q V] What is the business of the following organizations? (3 marks)

- 1) Akzo Nobel
- 2) Maruti Udyog
- 3) Air India
- 4) Dominos
- 5) Berger Lewis
- 6) Tech Mahindra

Q VI] Where are the following situated?. (2 marks)

- 1) Birla Planetorium
- 2) Rajiv Gandhi Sea Link
- 3) The Taj Mahal
- 4) Palam International Airport
