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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: (2	20 marks)	
 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 FeCl3 a. Acidic, b. Basic, .c. Neutral, d. Amphoteric.
4) A buffer solution is one which has a. Reserve acidity, b. Reserve basicity, c. pH =7, d. Reserve acidity and Reserve basicity
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. CH4, b. CH2Cl2, c. CH2Cl, d. CH3CH3
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% thenthe 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 bewashed 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 aweek, 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 nem 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). W H O
- 2). I P L
- 3). P T O.
- 4). N. B.
- O.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 Planetorium	
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.PT.)

ENTRANCE EXAMINATION SECOND ROUND

TIME: 11 AM TO 12 NOON MARKS: 50 DATE: 03-AUG-2017 (20 marks) Q. I] Define the following 1) Molality is ------2) Isothermal Process is ------3) Joule is -----4) A homogeneous system is ------6) Electrolysis is -----

/) Atomic number is
0) 71
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.
e) deposition of weker on from a deposition of copper on from.
5) Chloroform is readily soluble in,
a) ether b) acetone c) water d) both a and b
6) Carbolic acid is,
a) caboxylic acid b) picric acid c) o-nitro phenol d) phenol

	7) Cane sugar ora) glucose and rc) glucose and f	maltose b) g	glucose and la	ctose	
		b) che		emical substance is c) physiotherapy	
	9) Solution of Phe a) an antibiotic			ioxidant d) a dis	infectant.
	10) Chloromycet a) cholera b)				
	11) If a worker relabels can he made a) 2 b) 2.	ake in 50 mins		hr 40 mins, how m	any boxes of
	12) If $x + y = 4$ and a) 3.5 b) 4				
13) A tank contains 100 litres of water, if a pump takes 15 - x/10 min pump 10 litres of water out of the tank, how many minutes will it to pump to empty the tank?. a) 15 - 10x b) 150 - 10x c) 150 - x d) 15 - 10x					
	increases by	f a square incre		, then the side of th d) 69%	ne square
	15) If 0.2% of x i a) 150	s 0.03,then x is b) 15		d) 6.7	
	16) The next nur a) 22	mber in the ari b) 23	ithmetical pro c) 28	ogression 5, 11,17 d) 18	is
17) If the length of the two sides of a right triangle adjacent to the right ang are 8 and 15 respectively, then the length of the side opposite the right ang					
	is, a) 15.8	b) 16	c) 17	d) 17.9	
	18) If the productions		tive integers	is 210, then the sur	n of the two
	a) 5	b) 11	c) 12	d) 13	

	19) If the radius of a sphere is increased by a factor of 2, the the sphere is increased by a factor of,	en the volume of
	a) 2 b) 4 c) 6 d) 8	*
	20) If the product of two numbers is 5,and one of the numb sum of the two numbers is, a) 4 1/3 b) 4 5/6 c) 5 1/6 d) 6 1/2	er is 3/2, then the
Q III]	Expand the following abbreviations 1) ILO 2) IPS 3) MBA 4) GST	(2 marks)
Q IV]	Write the molecular formula of, 1) Potassium Permanganate 2) Iodoform 3) Acetaldehyde 4) Phosphoric acid 5) Methane 6) Sodium Carbonate	(3 marks)
Q V]	What is the business of the following organizations? 1) Akzo Nobel 2) Maruti Udyog 3) Air India 4) Dominos 5) Berger Lewis 6) Tech Mahindra	(3 marks)
Q VI]		(2 marks)