SEAT NO.:	SUPERVISOR'S SIGN.:

UNIVERSITY OF MUMBAI'S GARWARE INSTITUTE OF CAREER EDUCATION & DEVELOPMENT DIPLOMA IN PAINT APPLICATION TECHNOLOGY (DPAT) **SECOND ROUND**

ENTRANCE EXAM

MARKS: 50 **TIME: 11.00AM TO 12.00 NOON DATE: 29-JUL-16**

	NOTE: ANSWER ALL THE QUESTIONS	
	refine the following:	[20 MARKS]
1)	Isothermal process is	
2)	Atomic number is	
3)	Neutralisation is	
4)		
5)	Thermodynamics deals with	
6)	Galvanisation is	
7)	Rusting is	
8)	Oils are	
9)	An antiseptic is	
10)	Dissociation is	
10)		

Q.2]	Circle Your choice a,b,c,or d.		[20	marks]
1)	Buffer solution is one which ha a) Reserve acidity c) ph = 7	s b) d)	Reserve basicity Reserve acidity and Reserve basicity	
2)	The ph value of a solution is zero, the a) A strong acid c) neutral	e solutio b) d)		
3)	If vapour pressure of water at 298 k a) 760 mm c) 760 cm	in 18 mr b) d)	m Hg, its vapour pressure at 373 k would be 76 mm 18 mm	
4)	When gas expands in vacuum, the way a) Maximum c) Less than zero	ork done b) d)	e by the gas is Zero Greater than zero	
5)	pH of blood is maintained constant back. a) Common ion effect. C) Solubility	by mech b) d)	anism of Buffer All of these	
6)	Brass consists of a) Zn and cu c) Cu, Sn & Zn	b) d)	Zn & Sn Zn, Ni & Sn	
7)	Lower number of alcohols a) Are insoluble in waterc) Are insoluble in acetaldehyde	b) d)	Are soluble in water Are insoluble in petrol	
. 8)	Chemically soap is a) A basec) A salt	b) d)	An acid A fat	
9)	Ether free from moisture and alcoho a) Dry ether c) Pure ether	l is knov b) d)	wn as Absolute ether Spirit ether	
10)	Fats contain higher percentage of a) Unsaturated fatty acids c) Monohydric alcohols	b) d)	Saturated fatty acids Dihydric alcohols	
11)	Which of the following number is that a) 24 c) 40	e least c b) d)	common multiple of the numbers 2, 3, 4 and 5 30 60	
12)	,	•	and the base of the triangle increases by 7%, by wh	ıat
13)	c) 12% If the $\frac{1}{2} + \frac{1}{4} = \frac{x}{15}$, then x is, a) 11.25	d) b)	12.35% 12	
14)	triangle is		14 to the area of a square with ride S, then the attitude	of the
15)	a) S c) 3S Of the number 7, 0, 11, 13, 20 and 3	b) d)	2S 4S	
15)	Of the number 7, 9, 11, 13, 29 and 3 a) None c) 5	3 now n b) d)	All	2/4
				~1

16)	If 25 men can unload a truck in 1 hour 30 minutes, how long should it take 15 men to u a) 2hrs b) 2 1/4 hrs c) 2 1/3 hrs d) 2 1/2 hrs	nload the truck
17)	If the side of a square increases by 30%, then its area is increased by a) 9% b) 60% c) 69% d) 130%	
18)	If a rectangle has length 'L' and the breadth is one half of the length, then the area of the a) L^2 b) $\frac{1}{2}L^2$ c) $\frac{1}{4}L^2$ d) $2L$	e rectangle is,
19)	If a worker can pack 1/6 of a carton of canned food in 15 minutes and there are 40 work factory, How many carton should be packed in the factory in 1 2/3 hours a) 40 2/9 b) 43 4/9 c) 44 4/9 d) 45 2/3	cers in a
20)	The sum of the 5 consecutive integers is 35. How many of the 5 consecutive integers a numbers. a) 1	re prime
Q III	Expand the following abbreviations a) MB A	[2 Marks]
	b) IPS	
	c) LBW	
•	d) BHMS	
Q IV	What is the Business of the following Organizations a) AKZO Noble	[2 Marks]
	b) ICI (Imperial chemical industries)	
	c) Godrej & Boyce	
	d) Amazon.in	
QV	What is the Atomic number of a) Hydrogen	[3 marks]
	b) Calcium	
	c) Nickel	
	d) Potassium	-
	e) Sulphur	
	f) Carbon	***************************************

Q VI	Write the molecular Formula	[3 Marks]
a)	Hydrochloric acid	
b)	Sodium Carbonate	
c)	Ferrous Sulphate	
d)	Carbon tetra chloride	
e)	Acetone	
f)	Butyl alcohol	

SEAT NO.:	SUPERVISOR'S SIGN.:
SEAT NO	SUFERVISOR SSIGN.:

UNIVERSITY OF MUMBAI'S GARWARE INSTITUTE OF CAREER EDUCATION & DEVELOPMENT DIPLOMA IN PAINT APPLICATION TECHNOLOGY (DPAT)

ENTRANCE EXAM

ATE	E: 18-JUL-16	TIME: 11.00AM TO 12.00 NOON	MARKS: 50
	NOTE: ANSWER AL	LL THE QUESTIONS	
1 : D	Define the following:	ď.	[20 MARKS]
1)	Buffer Solution is		
2)	0.1N NaOH means		
3)	Tranquillizers are		
4)	Adiabatic reaction is		
5)		s are	
6)	The third law of Ther	modynamics states	
7)	Heat of reaction is		
8)	pOH is		
9)	Ionisation is		
10)	Atomic mass number	is	

Q.2]	Circle Your choice a,b,c,or d.		[20 marks]
1)	Cane Sugar on hydrolysis gives a) glucose and maltose c) Glucose and fructose	b) d)	Glucose and Lactose only glucose
2)	Solution Of Phenol is used as a) an antibiotic c) an antioxidant	b) d)	an analgesic a disinfectant
3)	If M and m are the molarity and molal a) M=m c) M>m		the given aqueous solution, thus M <m m≤m<="" td=""></m>
4)	If an Acid is diluted a) pH increases c) No change occurs	b) d)	pH decreases Can vary depending on the acid
5)	Protons Were discovered by a) Chadwick C) Rutherford	b) d)	Goldstein Bohr
6)	Zinc is Mainly extracted from a) Willinitec) Zinc Blende	b) d)	Calamine Pyrolurite
7)	Galvanis ation Process isa) Deposition of Zinc on ironc) Deposition of aluminum on iron	b) d)	Deposition of Nickel on iron Deposition of Copper on iron
8)	Chloroform is readily soluble in a) ether C) water	b) d)	acetone both in a &b
9)	Butter Contains a) lactic acid c) citric acid	b) d)	Butyric acid acetic acid
10)	Fats are esters of a) fatty acid c) glyceride	b) d)	Glycerol Both a &b
11)	An angle of x degrees has the property x is a) 30	that o	f its Complement is equal to 1/6 of its supplement where 60
	c) 63	d)	72
12)	same sewer	ewer b)	the same how long should it take 30 workers today the 6 hrs 12 minutes
	a) 5 hrs 12 minutes c) 6 hrs 20 minutes	,	6 hrs 40 minutes
13)	rectangle is increased by		he 11% and the width remains the same than the area of
	a) 11% C) 110%	b) d)	21% 121%
14)	The angles of a triangle are in the ratio a) 40° c) 75°	2:3:4: b) d)	t, the largest angle in the triangle is 70 ° 80 °
15)	If the ratio of the radic of two circles is a) 3 to 4 c) 9 to 4		2, then the ratio of the areas of the two circles is 4 to 9 3 to 2

16)	If the product of two numbe a) 4 1/3 c) 5 1/6	ers is 5, and one of the numbers is $3/2$, then the sum of two b) $4^{2/3}$ d) $4^{5/6}$	numbers is
17)	If $x/y=2$, then y^2/x^2 a) $1/4$ c) 2	b) 1/2 d) 4	
18)	If it takes 12 Workers work it take for 16 workers to mal a) 72 c) 98	ting independently 3 hours to make 500 boxes, how many ke 300 boxes. b) 81 d) 60	minutes should
19)	The area of a then how many length of the field is y meter a) 2y+1000 c) 2y+1000/y	y rectangular field is 1000 sq.meters Meters is the perimeters field b) y+1000/y d) 2y+2000/y	er of if the the,
20)	Which of the following Integral 88 c) 95	gers has the most divisors b) 91 d) 99	
Q III			[2 Marks]
	b) IAS		W 100 700 1700
Q IV	What is the Business of the a) Kansai Nerolac	e following Organisation	[2 Marks]
	b) Blue Dart		
	c) Air India		***************************************
	d) Larsen and Toubro		
QV	What is the Atomic number a) Sodium	r of	[3 marks]
	b) Magnesium		
	c) Helium		
	d) Iron		
	e) Oxygen		
-	f) Cobalt		
	•		

Q VI	Write the molecular Formul	of	[3 Marks]
a)	Phosphoric acid		<u></u>
b)	Hydrogen peroxide		_
			
c)	Potassium Permanganate		····
d)	Ethyl alcohol		-
	-		-
e)	Methane		-
	-		
f)	Acetic acid		-
	-		

SEAT	NO.	◎

UNIVERSITY OF MUMBAI

GARWARE INSTITUTE OF CAREER EDUCATION & DEVELOPMENT DIPLOMA IN PAINT APPLICATION TECHNOLOGY

(DPAT) ENTRANCE EXAM

DATE: 17-AUG-15

TIME: 11.00AM TO 12.00 NOON

THIRD ROUND

MARKS: 50

NOTE: 1) DO NOT USE YOUR MOBILE IN THE EXAMINATION HALL 2) ANSWER ALL QUESTIONS

· QI. D	EFINE THE FOLLOWING (20 marks)
1)	Boiling point of a water is
2)	Isothermal process is
,	
3)	Normality is
4)	pH is
<i>=</i> \	-
3)	Neutralization is
6)	Electrolysis is
-	
-	
7)	Atomic mass number is
-	Atomic mass number is
•••	
-	
8) /	Analgesic is
•	

9) Theri	mochemistr	V S and part and have you are your thin and may been an and and and have have not and and the have been and and the have been and the have	this side was not one and age age was	the set may not the set into the day that the set into th	to their size that the majorus with his high real way was son and	y the thin had may may been hely the day the ware way for
man major daja, man maja daga daga daga daga daga daga daga d	man shin shin, and asses this floor ones con shin has note that has not shown and the same than the	ten and and and and ten due ton the form the form and any and any and and any other and the said the said.	the life was the old this two are we	was not too and the special and the special state of the special speci	a man man, and, and, and	and the control and set the law and the set that the
\$ 61 63 K	or the way are	to. An and an and an and we had the see that had the see had an and an ang age has the law for	min dan dan dip abil ann may aga	their tree was new took when their their team foot; that may help play their took you	in Mark, shart seadh aunn, gainn Aght 1997, 1967, 1967, water seann gannt Aufe auch anns sant	we'r hid ithel stan san gail stan thân hip man han san gail
IU) Calor	IC IS	to have you start this day had see that have made you grow you got you can see that you sha had had that had no	and and and appropriate who were a	en dan dan dan dan dan dan dan dan dan da	We will the specimen was the specimen	the fire has also also see that the also says they have
war new year got both half have not	of more time two space that the same over that high that that some a	er dan		To the star has not not not not not not see the the day the same any	with their time care and care their time and one was made and any one of	with which state that the party and the state that
War has day sail day bee day and	The face were too, but, the face was also too too	t with more than the sent and and make here mad have done that have also and with have part and over the made	of their few per date with major day to	to the gard day day day for the state and said the said and gard day.	and and well and any time that the man and the total and and and any	and the seek had been used the seek seek seek held the seek
QII. CIRCLI	E YOUR CE	IOICE a, b, c, or d	Į			(20
marks)						. (4
1. Proton	were disco	vered by				
a) Cha		b) Goldstein				
c) Ruth		d) Bohr				
		d) Bolli				
	onsists of					
a) Zn a	and Cu	b) Zn and Sn				
c) Cu,	Sn and Zn	d) Zn, Ni and Sn				
3. Chloromy	actin is effe	ctive in the treatme	nt of			
a) Choler						
b) Typho	id		Ž.		:	
c) Tubero	culosis					
d) Malari	a					
4. Molality i	s expressed					
a) Litre/m	nole b)	mole/litre				
c) moles/l	kg d)	grams/litre				
5. pH+pOH is,						
a) 7	b) 0					
c) 10	d) 14					
6. Formic acid is	s obtained fro	om				
a) Vinegar		b) Red ants				
c) Butter		d) Oil				
7. The substance	which can a	ct both as an antise	eptic and	d disinfectant	is	
		enol c) Bethional		d) Phenol		

8. When Nacl is added t	0 water		
a) freezing point is raised		b) boili	ng point is depressed
c) freezing point does not change			ing point is raised
9. pH of blood is mainta	ined constant by	y mechanism of	S pour to raised
a) Common ion effect			
c) Solubility	d) all of these	e	
10. Cane sugar on hydro	lysis gives		
a) glucose and maltos	e b) glucose	and Lactose	
c) glucose and fructos			
11. What is ratio of 2/3 to	o 5/4		
a) 10/12	b) 8/15		
c) 20/6	d) 2/7		
12. Of the numbers 7,9,1	1,13,29,33 how	many are prime	numbers
a) none	b) 4	c) 5	d) all
13. 25 men can unloaded	a truck in 1 hou	or and 30 minute	s, how long should it take for 15
men to unload the truck			g should it take for 15
a) 2 hour	b) 2.3 I	hours	
c) 2.5 hours	d)3 hou	ırs	
14. Which of the following	g numbers is the	e least common	multiple of the numbers, -2,3,4&5
a) 24 ·	b) 30		7 2,3,400
c) 40	d) 60		
15. of 1/3+2/7=X/42, when	re X is		
a) 13	b) 21		
c) 24.5	d) 26		
16. If, the radius of a spher	e is increased b	y a factor of 2, t	hen the volume is increased by a
factor of			in moreused by a
a) 2 b) 4	1		
c) 6 d)	8		
17. The area of a rectangula	ar field is 1000 s	square yards, if	the length of the field is "y" yards
, then . how many yards in	the parameter o	of the field	5 - 1 me field is y yallus
a) 2y+1000	b) 2y+20		
c) 1000 ·	d) 2y±1(000/y	

18	3. If the altitu	ide of the triangle inc	reases by 5% and the base of the triangle increases by
79	6.by what pres	sent the area of the tria	ngle increases
	a) 3.33%	b) 6%	ngie mereases
	c) 18%	d) 12.35%	
19.	. If the number		rsed, it becomes 18 greater than the number, find the
nui	mber if the sur	n of the digit is equal:	to 4
	a) 31	b) 22	
	c) 13	d) 40	
20.	A number is a	is much greater them	7, as it is less than 57, find the number
	a) 32	b) 37	sad shall 57, thid the number
Č	c) 40	d) 44	
Q II	II. EXPAND	THE FOLLOWING	ABBREVIATIONS (02 marks)
	1. IPS		ADDREVIATIONS (02 marks)
	2. MBA		
	B. MSc		
	I. UNO		·
0.17	/ W/HATIO	PHO DUCYNOS	
marl	ks)	THE BUSINESS OF	THE FOLLOWING ORGANISATIONS (02
1.	LARSEN A	AND TOUBRO	
2.	. ASHOK LI	EYLAND	
3.	BLUE DAI	RT	
4.	KANSAIN	EROLAC	
QV. V	WHAT IS TH	E ATOMIC NUMBI	ER OF (03 marks)
1.	Hydrogen		
2.	Nitrogen		
3.	Oxygen		
4.	Aluminium		
5.	Sodium		
6.	Helium		

QVI. WRITE THE MOLECULAR FORMULA OF

(03 marks)

- 1. Sodium hydroxide
- 2. Phosphoric acid
- 3. Ethyl alcohol
- 4. Ferric phosphate
- 5. Potassium permanganate
- 6. Calcium carbonate

5/5

SEAT	NO.	*	

UNIVERSITY OF MUMBAI GARWARE INSTITUTE OF CAREER EDUCATION & DEVELOPMENT DIPLOMA IN PAINT APPLICATION TECHNOLOGY (DPAT)

	ENTRANCE EXAM	
DATE: 13-Jul-15	TIME: 11.00AM TO 12.00 NOON	MARKS: 50

NOTE: ANSV	WER ALL THE QUESTIONS	
Q1] De	efine the following:	(20 Marks)
1)	Solution is	
2)	Thermochemistry is	
3)		
4).		
5)	Antioxidants are	
6)		
7)	Molality is	
8)	Complementary angles are	
. 9)	The First law of Thermodynamic	cs states
10)	Specific gravity is	
QП] Cii	rcle your choice a,b,c or d	(20 Marks)
1)	During rusting of iron it gets, a) oxidised b) reduced d) hydrated	c) oxidised and hydrated

2)	If the Hydrogen ion concer pH will be,	ntration of an acid is decreased ten times, its
	a) increased by one c) remains unchanged	· · · · · · · · · · · · · · · · · · ·
3)		
	a) vinegar c) butter	b) red ants d) oil
4)		ot a Thermodynamic property
	a) time c) pressure	b) temperature
	o, pressure	d) volume
5)	Solution of Phenol is used	•
		b) an analgesicd) a disinfectant
		·
6)	The substance obtained a	t the cathode on electrolysis of NaOH solution
	is, a) H2O	b) Na
	c) H2	d) O2
71	Galvanisation process is	
′ ;	Galvanisation process is, a) deposition of Zinc on ir	on b) deposition of Aluminium on iron
	c) deposition of Nickel on	iron d) deposition of copper on iron.
8)		the nucleus of an atom is represented by,
Ο,	a) AZ	b) ZA
	C) A	d) Z
9)	Which of the following is a	n example of a homogeneous system,
• ,	a) ice in contact with water	er b) chlorine, water and chloroform
	c) a mixture of oxygen an	d nitrogen gas d) all of these

001	acchinaming and is ca	
	a) analgesic	b) tranquilizer
	c) antibiotic	d) antiseptic
11)	0.03 times 0.05 is	
,	a) 15%	b) 1.5%
	•	•
	c) 0.15%	d) 0.015%
401		
12)	x + y = 4 and $x - y = 3$ th	· · · · · · · · · · · · · · · · · · ·
	a) 0.5	b) 3.5
	c) 4	d) 4.5
13)	If the ratio of the ares of	two squares is 2:1, then the ratio of the
	perimeters of the squares	s is,
	a) 1:2	b) 1:J2
	c) 2:1	d) 2:1
	4	
14)	If 15 men working inden	andenthy and at the came rate can manufacture
14)	27 backets in an hour ha	endently and at the same rate can manufacture
	27 baskets in an nour, no	w many baskets would 45 men working
		same rate manufacture in 40 minutes.
	a) 27	b) 40
	c) 54	d) 81
15) The area of a square inc	creases by 69%, then the side of the square
	increases by,	•
	a) 13%	b) 30%
	c) 39%	d) 69%
	-,	4) 00%
16	The next number in the a	eometric progression E 10 20 in
.0	a) 25	eometric progression, 5, 10, 20is,
		b) 30
	c) 40	d) 50
17)	The angles of a triangle	are in the ratio 1 : 2 : 2, then the triangle is,
	a) isosceles	b) obtuse
	c) equilateral	d) rtght triangle
	•	, 3
.18)	The addition of a positive	e number with its reciprocal is twice of their
- ,	difference, the number	is trained with its reciprocal is twice of their
	a) $\sqrt{2}$	
	***************************************	b) 1/2 d) 1/3
	c)√3	d) 1/ 3
19)	It the triangle has a base	B, and the altitude of the triangle is twice
	the base, then the area of	of the triangle is,
	a) 1/2 AB	b) AB
	c) B ²	D) 2B ²
		•

	Waster Gays	
20) If the product of 3 of smaller integers is, a) 11 c) 13	consecutive integers is 21 b) 12 d) 18	0, then the sum of two
Q III] Expand the following a) GICED b) ILO c) MBA d) PTO	ng abbreviations.	(2 Marks)
Q IV What is the busines a) Jenson Nicholson b) Ashok Leyland c) Amazon.com d) Mazagaon Docks		sations (2 Marks)
Q V What is the atomic a) Nitrogen b) Potassium c) Chromium d) Manganese e) Carbon f) Helium	c number of,	(3 Marks)
Q VI] Write the molecular a) Sulphuric Acid b) Sodium Thiosulph c) Potassium Dichrod Ferric Phosphate e) Acetone f) Butyl Alcohol	nate omate	(3 Marks)

4/4

SEAT	NO.	6	

UNIVERSITY OF MUMBAI GARWARE INSTITUTE OF CAREER EDUCATION & DEVELOPMENT DIPLOMA IN PAINT APPLICATION TECHNOLOGY

(DPAT) ENTRANCE EXAM SECOND ROUND

DATE: 03-Aug. 2015

TIME: 11.00AM TO 12.00 NOON

MARKS: 50

NB: ANSWER ALL QUESTIONS

QI. D	EFINE THE FOLLOWING (20 marks)
1)	Buffer solution is
2)	Polymerization is
	·
3)	Antibiotics are
4)	Neutron number is
5)	Irreversible process is
5)	· · · · · · · · · · · · · · · · · · ·
6)	Ionisation is
,	
7)	Exothermic reaction is
8)	Supplementary angles are
0)	
9)	Pythagoras theorem states

10) An Erg is		
and not seek out you seek not seek not		
QII. CIRCLE YOUR CH	IOICE a,b, c, or d	(20 marks)
1. Molarity is express	ed as,	•
a) Litres/mole	b) moles/litre	
c) moles/kg d) grams/l	itre	·
2. When a solution co	ontains equal concentration of hydroger	ions and hydroxyl ions, its P H
will be around,		
a) 14 b) 0		: :
c) 10 d) 7		;)
3. Thermodynamics is	concerned with.	
a) only the initial sta		
b) only the final state		
c) only the time taken by t	·	
• •	nd final state of the system	d . 1
4. Fat and oils are the tries		
a) amino acids,	b) fatty acids	
c) mineral acids	d) glucose	
5. If the PH value of a sol	ution is zero, then the solution is,	
a) a strong acid	b) a very weak acid	
c) neutral	d) a base	
6. Bronze consists of,		
a) Zn and Cu	b) Zn and Sn	
c) Cu, Sn and Zn	d) Zn, Si and Sn	
7. Formalin is an aqueous	solution of,	
,) formic acid	
a) formaldehyde	d) notassium formate	

8. Which of the	following is not a vegetable fiber
a) hemp	b) jute
c) cotton	d) keratin
9. Which of the	following is not sugar,
a) sùcrose	b) starch
c) fructose	d) glucose
10. A chemical s	substance, which, reduces the temperature of the body in fever is,
a) anti- inflar	nmatory b) pyretic
c) anti-pyreti	c d) antiseptic
11. Which of the	e following numbers is closest to zero,
a) $(1-0.9)^2$	b) 1- (0.9) ²
c) 0.09	d) $(0.09)^2$
12.2/5 + 1/3 = x	/30, where x is,
· a) 7	b) 11
c) 16	d) 22
13. A car wash	can wash 8 cars in 18 minutes. At this rate, how many cars can the car wash wash
in 3 hours.	
a) 13	b) 40.5
c) 80	d) 125
14. How many s	squares with sides ½ inch long are needed to convert a rectangle which is 6 feet
long and 4 feet	wide.
a) 96	b) 3456
c) 13824	d) 14266
15. The next nu	mber in the arithmetical progression, 5, 11, 17,is
a) 18	b) 22
c) 23	d) 28
16. Successive	discounts of 20 % and 15% are equal to a single discount of
a) 32%	b) 34%
c) 35%	d) 36%
•	

.

17. The sum of 5 cons	ecutive integers	is 25, How many of the 5 consecutive integers are prime
numbers.		
a) 2	b) 3	
c) 1 .	d) 4	
18. The product of two	o numbers is 5,	and one of the numbers is 3/2, then the sum of the two
numbers is	ō	
a) 4 1/3	b) 4 2/3	
c) 4 5/6	d) 5 1/6	
19. If the area of a tria	angle with base	S, is equal to the area of a square of side S, then the altitude
of the triangle is		
a) S	b) 2S	
c) 3S	d) 4S	
20. If the side of a squ	uare increases by	y 40% then the area of the square increases by
a) 16%	b) 40%	
c) 96%	d) 116%	
Q III. EXPAND TH	HE FOLLOWI	NG ABBREVIATIONS (02 marks)
1. UGDPAT -		
2. IAS -		
3. WHO -		
4. TOI -		
	IE BUSINESS	OF THE FOLLOWING ORGANISATIONS (02 marks
QIV. WHAT IS II.	IE DODITEDO	or riibrozzo wase
1. Blue Dart		
2. Godrej and B	oyce Ltd -	
3. Akzo Nobel	•••	
4. Jindal -		

QV. WHAT IS THE ATOMIC NUMBER OF

(03 marks)

- 1. Sulphur -
- 2. Calcium -
- 3. Oxygen -
- 4. Lead -
- 5. Phosphorous -
- 6. Magnesium _

QVI. WRITE THE MOLECULAR FORMULA OF

(03 marks)

- 1. Lead Phosphate -
- 2. Water -
- 3. Benzene -
- 4. Hydrogen Peroxide -
- 5. Nitric acid _
- 6. Sodium Carbonate

* * * *

UGDPAT

SEAT NO.

UNIVERSITY OF MUMBAI GARWARE INSTITUTE OF CAREER EDUCATION & DEVELOPMENT ENTRANCE EXAMINATION DIPLOMA IN PAINT APPLICATION TECHNOLOGY (DPAT)

		6/06/2014	20 1200110011	MARKS: 50
II	, , ,	ANSWER ALL THE C	QUESTIONS.	
]	Dε	fine the following.		[20 mar
	1)	Normality is		
	2)	Freezing point of a liqu	id is	
	3)	Isothermal process is		
	-,			
•	4)			
				*
	5)	Thermochemistry is		
6	6)	Antacid is		
				-
7	7)	Atomic mass number is	· ·	
8	5) (Jalvanisation is	,	,
	-			
9	9)	Viscosity is		
	No. 1			
1	0)	Density is		

- 1) Rate of reaction depends on,
 - a) Concentration of reactants
 - b) Temperature
 - c) Catalyst
 - d) Concentration, Temperature and Catalyst
- 2) Protons were discovered by,
 - a) Chadwick
 - b) Goldstein
 - c) Rutherford
 - d) Bohr
- 3) pH of blood is maintained constant by mechanism of
 - a) Common ion effect
 - b) Buffer
 - c) Solubility
 - d) All of them
- 4) 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 and final state of the system
- 5) Molality is expressed as,
 - a) Litres / mole
 - b) Moles / litre
 - c) Moles / kg
 - d) Grams / litre
- 6) Which of the following is a natural fibre,
 - a) Rayon
 - b) Jute
 - c) Terylene
 - d) Nylon
- 7) The instrument used to measure an optical rotation of a compound is,
 - a) Potentiometer
 - b) Polarimeter
 - c) Polarograph
 - d) Calorimeter
- 8) Chloroform is readily soluble in,
 - a) Ether
 - b) Acetone
 - c) Water
 - d) Both A & B
- 9) Cane sugar on hydrolysis gives,
 - a) Glucose and maltose
 - b) Glucose and lactose
 - c) Glucose and fructose
 - d) Only glucose

į	10) Soap is,
	a) A sodium salt of an alcohol
	b) A potassium salt of an ester
	c) A sodium salt of glycerin
	d) A sodium salt of higher fatty acids
	11) If a worker can pack 1/6 of a carton of canne
	factory, how many cartons will be packed in t
	a) 33
	b) 43 4/9
	0) 44 40

[1]	If a worker can pack 1/6 of a carton of canned food in 15 minutes and there are 40 workers in the
	factory, how many cartons will be packed in the factory in 1 2/3 hours;
	a) 33

- c) 44 4/9
- d) 45 2/3
- 12) If the sum of 5 consecutive integers is 35, How many of these five consecutive integers are prime numbers;
 - a) 1
 - b) 2
 - c) 3
 - d) 4
- 13) If the operation * is defined by $*a = a^2 2$, then * (*5) is,
 - a) 527
 - b) 529
 - c) 621
 - d) 623

14) If
$$Y/X = 1/3$$
 and $X + 2Y = 10$, then X is,

- a) 3
- b) 4
- c) 5
- d) 6
- 15) The area of a rectangular field is 1000 square meters. If the length of the field is Y meters, then how many meters is the perimeter of the field.
 - a) Y + 1000/Y
 - b) 2Y + 1000
 - c) 2Y + 1000/Y
 - d) 2Y + 2000/Y
- 16) Which of the following integers has the most divisors,
 - a) 88
 - b) 91
 - c) 95.
 - d) 99
- 17) What is the next number in the geometric progression 4, 12, 36?
 - a) 60
 - b) 72
 - c) 108
 - d) 144
- 18) If an angle of X degrees has the property that its complement is equal to 1/6 of its supplement, where X is,
 - a) 30
 - b) 60
 - c) 63
 - d) 72

	 19) If the attitude of a triangle increases by 5 % and the base of the triangle increases by 7 % percent the area of the triangle increases. a) 3.33 % b) 6 % c) 18 % d) 12.35 % 	, by what
	 20) The angles of a triangle are in the ratio 2:3:4, then the largest angle in the Triangle is a) 40° b) 70° 	
	c) 75° d) 80°	
Q.3]	Expand the following abbreviations.	[02 marks]
	1) UGDPAT	
	2) BHMS	
	3) IAS	
	4) TOI	
Q.4]	What is the business of the following Organisations.	[02 marks]
	1) Amazon.com	
	2) Akzo Nobel	
	3) Larsen and Toubro	
	4) TISCO	• .
Q.5]	What is the atomic number of	[03 marks]
	1) Oxygen	
	2) Sodium	
	3) Zinc	
	4) Carbon	
	5) Iron	
	6) Nickel	
Q.6]	Write the molecular formula of	[03 marks]
	1) Potassium Permanganate	
	2) Hydrogen peroxide	
	3) Phosphoric acid	
	4) Chloroform	
	5) Sodium Chloride	
	6) Aluminium Sulphate	

UNIVERSITY OF MUMBAI

GARWARE INSTITUTE OF CAREER EDUCATION & DEVELOPMENT

ENTRANCE EXAMINATION DIPLOMA IN PAINT APPLICATION TECHNOLOGY (DPAT)

SECOND ROUND





DATI	3:	/ /2014	TIME: 11.00 AM TO 12.00 NOON	MARKS: 50
NO.	TE:	- ANSWER ALL QUESTI	IONS.	
Q.1]	D	efine the following.		[20 marks]
		Neutralisation is		
	3)	Exothermic reaction is		
	4)	pH is		
	5)	Thermodynamics is		
	6)			
	7)	Atomic number is		
	8)	Electrolysis is		
	9)	Adiabatic process is		
	10)	Joule is		
Q.2]	Circ	le your choice A,B,C or D.		[20 marks]
	a b	Brass consists of a) Zn & Cu b) Zn & Sn c) Cu, Sn & Zn d) Zn, Ni & Sn		
	aj b cj	f an acid is diluted) pH increases) pH decreases) No change occurs) Can vary depending on the	acid	

 a) Buffer solution is one which has, a) Reserve acidity b) Reserve basicity c) pH = 7 d) Reserve acidity and reserve bas 	icity		,	
 4) Evaparation of sweat from human I a) An exothermic process b) An endothermic process c) A spontaneous process d) An adiabatic process 	body is,			
 5) The important and necessary blood a) Antibiotics b) Analgesic compounds c) Antacids d) Antioxidants 	d additives are			
 6) Silk is, a) An artificial fibre b) Vegetable fibre c) A regenerative fibre d) An animal fibre 				
 7) Phenol is , a) Acidic in nature b) Neutral in nature c) Basic in nature d) Amphoteric in nature 				
8) Butter contains,a) Lactic acidb) Butyric acidc) Citric acidd) Acetic acid				
9) Chemically soap is,a) A baseb) An acidc) A saltd) A fat				
 10) Lower members of alcohol are, a) Insoluble in water b) Soluble in water c) Insoluble in acetaldehyde d) Insoluble in petrol 				
11) If the product of 2 numbers is 5 a) 4 1/3 b) 4 2/3 c) 4 5/6 d) 5 1/6	and one of the	e, then the sum of	f the two	numbers is

12) If the lengths of the length of the side op a) $\sqrt{258}$ b) 15.8 c) 16 d) 17.	two sides of a right triangle posite the right angle is	e adjacent to the right	angle are 8 and 15 respec	tively, then the
a) 11 b) 12	onsecutive integers is 210,			
 14) If the radius of a sph a) 4 b) 8 c) 16 d) 27 	ere is increased by a factor	of 3, then the volume	of the sphere is increased	l by a factor of
 15) If it takes 12 workers for 16 workers to ma a) 60 b) 72 c) 81 d) 98 	s, working independently 3 ke 300 boxes;	hours to make 500 bo	exes, how many meriutes	should it take
16) If X + Y = 5 and 2X a) 11 b) 13 c) 17 d) 19	+ Y = 12, then $3X + Y$ is,			
17) If ½ +1/4 = X/15, the a) 10 b) 11.25 c) 12 d) 13.75	n X is			
18) If the length of a recta is increased by a) 11 % b) 21 % c) 110% d) 111%	angle is increased by 11 %		s the same then the area o	f the rectangle
19) If the area of the trian triangle is, a) S b) 2 S c) 3 S d) 4 S	gle with base S, is equal	to the area of a square	with side S, then the altit	aude of the
20) If the numbers 7,9,11, a) None b) 4 c) 5 d) All	, 13, 29, 33 how many are	prime numbers,		

Q.3]	Expand the following abbreviati	ions.				[2 mar
	1) WHO					
	2) MBA					
	3) IPS					*
	4) C.C					
Q.4]	What is the business of the follow	wing Organisations.				[2 mar
	1) Flipkart					
	2) Kansai Nerolac	· ·	- "		-	-
	3) Ashok Leyland					
	4) LIC of India					
Q.5]	What is the atomic number of					[3 marl
	1) Hydrogen					
	2) Potassium					
	3) Copper					
	4) Calcium					
	5) Helium					
	6) Magnesium					
Q.6]	6) Magnesium Write the molecular formula of:					[3 mark
Q.6]	Write the molecular formula of:					[3 marl
Q.6]	Write the molecular formula of: 1) Suphuric acid					[3 mark
Q.6]	Write the molecular formula of: 1) Suphuric acid 2) Ethyl alcohol					[3 mark
Q.6]	Write the molecular formula of: 1) Suphuric acid					[3 marl
Q.6]	Write the molecular formula of: 1) Suphuric acid 2) Ethyl alcohol 3) Sodium Thiosuphate					[3 marl
Q.6]	Write the molecular formula of: 1) Suphuric acid 2) Ethyl alcohol 3) Sodium Thiosuphate 4) Sodium Carbonate					[3 marl
Q.6]	Write the molecular formula of: 1) Suphuric acid 2) Ethyl alcohol 3) Sodium Thiosuphate 4) Sodium Carbonate 5) Potassium Dichromate					[3 marl
Q.6]	Write the molecular formula of: 1) Suphuric acid 2) Ethyl alcohol 3) Sodium Thiosuphate 4) Sodium Carbonate 5) Potassium Dichromate	******	******	*		[3 mark
Q.6]	Write the molecular formula of: 1) Suphuric acid 2) Ethyl alcohol 3) Sodium Thiosuphate 4) Sodium Carbonate 5) Potassium Dichromate		******	*		[3 mark
Q.6]	Write the molecular formula of: 1) Suphuric acid 2) Ethyl alcohol 3) Sodium Thiosuphate 4) Sodium Carbonate 5) Potassium Dichromate		******	*		[3 mark
Q.6]	Write the molecular formula of: 1) Suphuric acid 2) Ethyl alcohol 3) Sodium Thiosuphate 4) Sodium Carbonate 5) Potassium Dichromate		******	*		[3 mark
Q.6]	Write the molecular formula of: 1) Suphuric acid 2) Ethyl alcohol 3) Sodium Thiosuphate 4) Sodium Carbonate 5) Potassium Dichromate 6) Ferric phosphate	*********	******	*		[3 mark
Q.6]	Write the molecular formula of: 1) Suphuric acid 2) Ethyl alcohol 3) Sodium Thiosuphate 4) Sodium Carbonate 5) Potassium Dichromate 6) Ferric phosphate	*********	*******	*		[3 mark

UGDPATIL

SEAT NO.

UNIVERSITY OF MUMBAI GARWARE INSTITUTE OF CAREER EDUCATION & DEVELOPMENT ENTRANCE EXAMINATION DIPLOMA IN PAINT APPLICATION TECHNOLOGY (DPAT) THIRD ROUND

DATE	: 22 /07/2014	TIME: 11.00 AM TO 12.00 NOON	MARKS
NOT	E:- Answer all the questions	•	(20 Marks)
Q.II	Define the following	4,	
1.	Solution is		
2.		·	
3.	Molality is		
4.			
5.			
6.			
7.	Ionization is		
8.	Supplementary anglers are		
9.	Litmus paper is used to che	eck	
10.	Atomic mass number is		

Q.2 Circle your choice a, b, c or d

1)	If	the	рН	value	of a	a s	solution	in	zero,	the	solution	is

a) Strong acid

b) a very weak acid

c) Neutral

d) a base

2) The number of neutrons in the nucleus of an atom is represented by

a) A - Z

b) Z - A

c) A

d) Z

3) Chloromycetin is effective in the treatment of

a) Cholera

b) Typhoid

c) Tuberculosis

d) Malaria

4) pH + pOH is

a) 7

b) Zero

c) 10

d) 14

5) Which of the following is not a thermodynamic property

a) Time

b) Temperature

c) Pressure

d) Volume

6) Solution of phenol is used as

a) An antiseptic

b) An analgesic

c) An antioxidant

d) A disinfectant

7) During rusting of iron it gets

a) Oxidant

b) Reduced

c) Oxidised and hydrated

d) Hydrated

8) Area of a circle of radius 10 cms is

a) 348 cm^2

b) 384 cm²

c) 314 cm^2

d) 444 cm²

9,)	A number is as much greater than 17 as it is less then 57, Find the number					
	a) 36	b) 37				
	c) 40	d) 44				
10)	3/4 th of a number is equal to 4/3 rd of another number. What is the ratio between these					
	a) 7:12	b) 9:16				
	c) 16:12	d) 6:8				
11)	If the number of two digits is reversed it number if the sum of the digits is 4.	becomes 18 greater than the number, find the				
	a) 31	b) 22				
	c) 13	d) 40				
12)	0.03 times 0.05 is					
	a) 15 %	b) 1.5 %				
	c) 0.15 %	d) 0.015 %				
13)	A triangle has a base B and the altitude of the triangle is	of the triangle is twice the base, then the area				
	a) AB	b) ½ B ²				
	c) B ²	d) $2 B^2$				
14)	1/3 + 2/7 = X/42, when X is,					
	a) 13/21	b) 13				
	c) 21	d) 26				
15)	The next number is the arithmetic progre	ession 5 11 17 is				
10)	The next number is the artificite progre					
,	a) 23	b) 18				
	c) 22	d) 28				
16)	If the angles of a triangle are in the ratio	1:2:2, then the triangle is				
	a) Isosceles	b) Obtuse				
	c) Right angle	d) Equilateral				
	•					

17) If the two sides of a right angle triangle and $2\sqrt{n}$, then the length of the side of the	adjacent to the right angle have lengths (n - 1) e triangle opposite the right angle is
a) (n-1) c) (n+1)	b) $4\sqrt{n}$ d) $\sqrt{n^2+1}$
18) Which of the following numbers is the l	largest
a) (0.05)	B) (0.5) 2
c) $\frac{1}{0.5}$	d) 5
19) It takes 50 workers 4 hours to dig a sew the same sewer.	ver. How long would it take 30 workers to dig
a) Two hours 20 minutes	b) 5 hrs 12 minutes
c) 6 hrs 12 minutes	d) 6 hrs 40 minutes
20) If $X = Y = 2Z$ and $X.Y.Z = 256$, then X	equals
a) 2	b) 4
c) 6	d) 8
Q.3] Answer the following	(3 Marks
1) Who is the President of India	
2) Where is Taj Mahal situated -	
3) What is the Colour of Fire brigade	
4) Where is Nehru Planatorium -	
5) Where is Howrah Bridge situated -	
6) What is the Colour of Airforce uniform	! - .
Q.4] Expand the following abbreviations.	(3 Marks
1) M. A	
2) M. T. N. L	
3) IPL	
4) TIFR	
5) MCA	
6) B. Ed	•

What is the business of following organisations.

(2 Marks)

- 1) Mazagon Dock
- 2) DHL
- 3) Tech Mahindra
- 4) Godrej and Boyee
- Q.6] Write the molecular formula of

(2 marks)

- 1) Benzene
- 2) Chloroform
- 3) Nitric acid
- 4) Potassium permanganate



SEAT NO.:

UNIVERSITY OF MUMBAI GARWARE INSTITUTE OF ÇAREER EDUCATION & DEVELOPMENT DIPLOMA IN PAINT APPLICATION TECHNOLOGY ENTRANCE EXAM

ATE: 26/06/13	TIME: 11	.00AM TO 1	2.00 NOON	MARKS: 50
Complete the follow	ing.			[20 Marks
2) Molality is	,			
	liquid is		,	
				<u>-</u>
	•			
6) Solution is define	d as	· · · · · · · · · · · · · · · · · · ·	• • • • • • • • • • • • • • • • • • • •	
7) Dissociation is		·		
8) Galvanisation is				

	9) Buffer Solution is	
	10) Neutralisation is	
2.2]	Circle your choice a, b, c, or d	[20 Marks
	1) If an acid is diluted,	
	a) pH increases	b) pH decreases
	c) no change occurs	d) can vary depending on the acid
	. 2) When NaCl is added to water,	
	a) Freezing Point is raised	b) boiling paint is depressed
	c) freezing point does not change	d) boiling point is raised
	3) During rusting of iron it gets,	
	a) Oxidised	b) reduced
	b) Oxidised and hydrated	d) hydrated
	4) If the hydrogen ion concentration of an ac	eid is decreased ten tines, its pH will be,
	a) Increased by one	b) decreased by one
	c) remains uncharged	d) increased by ten
	5) Fat and oils are the trirsters of glycerol w	vith
	a) Amino acid	b) fatty acid
	c) mineral acids	d) Glucose
	6) Formalin is an aqueous solutions of	
	a) Methyl Formate	b) formic acid
	c) Formaldehyde	d) Potassium formate

7) What is the ratio of 2/3 to 5/4	
a) 1/4	b) 10/12
c) 8/15	d) 2/7
8) What is the next number in the geometri	c progression 4, 12, 36, ?
b) 44	b) 60
e) 72	d) 108
9) If $\frac{1}{2} + \frac{1}{4} = \frac{x}{15}$, then X is	
a) 10	b) 11.25
c) 12	d) 13.75
10) If the area of a square increases by 44%	% then the side of the square increases by,
a) 12 % **	b) 20 %
c) 24 %	d) 30 %
11) If the two-sides of a right angle triangle $2\sqrt{n}$, then the length of the side of the	adjacent to the right angle have lengths (n-1) and e triangle opposite the right angle is
a) (n-1)	b) 4
c) (n+1)	$d)\int n^2+1$
12) If the radius of a sphere is increased by increased by a factor of	a factor of 2, then the volume of the sphere is
a) 2	b) 4
c) 6	d) 8
13) If 25 men can unload a truck in 1 hour to unload the truck	and 30 minutes, how long would it take 15 men
a) 2 hours	b) 2 1/4 hours
c) 2 1/3 hours	d) 2 ½ hours
14) The area of a triangle with base S is equaltitude of the triangle is	al to the area of a square with side S then the
a) ½ S	b) S
b) 2 S (3)	d) 2 S

•	15) If the altitude of a triangle increases by what percentage will the area of	by 5 % and the base of the triang the triangle increase	le increases by 7%			
	a) 3.33 %	b) 06 %				
	c) 12 %	d) 12.35 %				
	16) If the ratio of radii of two circles is 3 is	to 2 then the ratio of the areas o	f the two circles			
	a) 2 to 3	b) 4 to 9				
	c) 9 to 4	d) 3 to 2				
	17) The product of 3 consecutive integer	s is 120, then the sum of the int	tegers is,			
	a) 12	b) 14				
	c) 15	d) 18				
	18) It takes 3 tons of copper ore and 5 to many tons of alloy A can be made from	om 60 tons of copper ore and 90	tons of iron ore.			
	a) 18	b) 20				
•	c) 30	d) 50				
	19) The product of two numbers is $\frac{3}{2}$, then the sum of the two numbers is,					
	a) 4 1/3	b) 4 2/3	•			
	b) 4 5/6	d) 5 1/6				
•	20) An angle of X degrees has the propresupplement, where X is,	perty that, its complement is equa	al to $\frac{1}{6}$ of its			
	a) 45	b) 60				
	c) 63	d) 72				
Q.3]	Expand the following abbreviations.		[3 Marks]			
	1) UGDPAT	en e				
	2) BCA		•			
	3) MSc					
	4) DNA	e e				
	5) WHO					
	6) IPL					

Q.4]	Where are the following situated.		. [2 Marks]
	1) The Taj Mahal		
	2) Howrah Bridge		
	3) Vrindavan Gardens		
	4) Nehru Planatorium		
Q.5]	What is the business of the following organizations.		[2 Marks]
	1) Flipkart		
	2) Akzo Nobel		
	3) LIC of India		•
	4) Godrej and Boyee Ltd.		
Q.6]	Write the Molecular Formula of		[3 Marks]
	1) Sulphuric acid	-	
	2) Potassium Dichromate		
	3) Sodium Chloride		
	4) Nitric acid		
	5) Ferric Phosphate		
	6) Hydrogen Peroxide		
	************	*****	

DPAT

SEAT NO.:

UNIVERSITY OF MUMBAI GARWARE INSTITUTE OF CAREER EDUCATION & DEVELOPMENT DIPLOMA IN PAINT APPLICATION TECHNOLOGY SECOND ROUND ENTRANCE EXAM

\TE	: 15-Jul-2013	TIME: 11.	00 AM TO 1	2.00 NOOI	V	MARKS	: 50
1] C	Complete the following	ng.				4	[20]
1]) Normality is defin	ned as	ern andere i den de de la seguier ser ser année de la seguier par de se de la seguier de la seguier de la seguier se				18 - Namada paga a paga ya Karaya
			·				***************************************
2) Thermodynamics	is				e get	
<i></i>			4				
				jt	•	Þ.	
3`) Endothermic reac	tion is					
,	•						
	•						
47							
4,) 'p OH is						
5)	Electrolysis is	•				•	
		van van van	· · ·	٠.			
. 6)) Atomic mass men	nber is					
ĺ	S					Ç	
•							
				`			
7)	Antacid is		*** be-				
		-				-	

•	8)	Viscosity is		
	9)	1		
· ·	10) Isothermal process is	· · · · · · · · · · · · · · · · · · ·	
		·		
Q.2]	Ci	rcle the right answer.		[20]
	1]	If pH of a solution is Zero, the solut	ons is,	
		A) Strong acid	B) a very weak acid	
		C) Netral	D) a base	•
	2]	Brass consists of		
		A) Zn and Cu	B) Zn and Sn	•
		C) Cu, Sn and Zn	D) Zn, Ni and Sn	
	3]	A Buffer Solution has always		•
		A) $pH = 7$	B) $pH = 9$	
		C) A definite pH	D) Equal number of H+	and OH - ions.
	4]	The number of neutrons in the nucle	· .	
		A) A – Z	B) Z-A	
	6 1	C) A	D) Z	
	5]	Chloromycetin is effective in the tre		
		A) CholeraC) Tuberculosis	B) Typhoid	
	6]	C) Tuberculosis Formic acid is obtained from	D) Malaria	•
	ΟJ	A) Vinegar	B) Red ants	
		C) Butter	D) Oil	
	7]	Solution of Phenol is used as	\mathcal{D}_{j} on	•
	- 3	A) An antibiotic	B) an analgesic	
-		C) An Antioxidant	D) A disinfectant	

8] pH + p OH is	
A) 7	B) 0
C) 10	D) 14
9] 0.03 times 0.05 is	
A) 15 %	B) 1.5 %
C) 0.15 %	D) 0.015 %
10] If $X^2 - Y^2 = 15$ and $X + Y = 3$	then X – Y is
A) 3	B) 0
. C) 5	D) Cannot be determined
11] If $X = Y = 2Z$ and $X \cdot Y \cdot Z = 2S$	56, then X equals
A) 2	B) 4
C) 6	D) 8
12] The addition of a positive number	with its reciprocal number is twice of their
difference, the number is	
A)	B)
C)	D)
13] The side of a square increases by	40%, then the area of the square increases by
A) 16%	B) 40%
, C) 96%	D) 116%
14] If the number of two digits is reversified the number, if, the sum of the	rsed it becomes 18 greater than the number, e digits is equal to 4,
A)31	B) 22
C) 13	D)40
15] The sum of 5 consecutive integers integers are prime numbers	is 35, How many of these consecutive
A) 0	B) 2
C) 3	D) 4
16] If it takes 50 workers 4 hours to dig To dig the same sewer	g a sewer, how long would it take 30 workers
A) 2 hours 24 minutes	B) 5 hours 12 minutes
C) 6 hours 12 minutes	D) 6 hours 40 minutes

	1/]	squares is	then the ratio o	t the peri	meter of the	
		A) 1:2	B) 1:2			
		C) 2:1	D) 2:1			
	18]	Successive discount of 20% and 15% are e	qual to a single	discount	of	
		A) 30%	B) 32%			\$
		C) 34%	· D) 35%			
	19]	The next number in the geometric progressi	on 5, 10, 20,	Is	•	
		A) 25	B) 30			
		C)35	D) 40			
	20]	2/5 + 1/3 = X/30, where X is	,			
		A) 4	B) 11	e di		
		C) 16	D) 22			
Q.3]	Ex	spand the following abbreviations.	· · · · · · · · · · · · · · · · · · ·			[03
	1]	B.Com -		•		[OS
	2]	M B A -				
	3]	BHMS-				
	4]	UNO-				
	5]	W H O -				•
	6]	I A S -				•
Q.4]	Wł	nat is the business of the following organizat				[02]
		LARSEN AND TOUBRO -			,	[02]
	2]	KANSAI NEROLAC -			\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\	***
,	3]	ASHOK LEYLAND -			• •	
	4]	DHL -				
0.63						.
Q.5]		at is the atomic number of				[02]
		Oxygen -	•			
		Carbon -			- American	
		Sulpher -			· *	
	4]	Sodium -				

Wı	Write the molecular formula of			
1]	Water -			
2]	Sodium Carbonate -			
3]	Potassium Permanganate -			
4]	Phosphoric acid -			
5]	Hydrochloric acid -			
6]	Methyl Alcohol -			



SEAT NO.	*
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UNIVERSITY OF MUMBAI GARWARE INSTITUTE OF CAREER EDUCATION & DEVELOPMENT DIPLOMA IN PAINT APPLICATION TECHNOLOGY ENTRANCE EXAM

DATE: 27-Jun-12	TIME: 11.00AM TO 12.00 NOON	MARKS: 50
Q.1 Complete the following.		20
1. An isothermal process is		•••••
••••••		
2. Atomic mass number is		
	······································	
•	······································	
		•
	······································	
	·	
		<u> </u>
6. Supplementary angles are		

	7. Thermochimistry is			· · · · · · · · · · · · · · · · · · ·	
			***************************************		********

	••••••••••				
	8. Electrolysis is	• • • • • • • • • • • • • • • • • • • •	······································		• • • • • • • • • • • • • • • • • • •
					•••••
	9. Buffer solution is	• • • • • • • • • • • • • • • • • • • •			

					• • • • • • • • • • • • • • • • • • • •
	10. pOH is defined as		······································		••••••
		••••••			
	•••••		•••••		• • • • • • • • • •
					· • • • • • • • • • • • • • • • • • • •
	Q.2] Circle your choice a,b,c	or d			20
	1) Rate of reaction depend	ls on			
	a) concentration	of the reactants	b) temperature	c) catalyst	
	d) all the above		•		
	2) If the pH value of a so	olution is zero. Th	e solutions is		
• .	a) a strong acid	b) a	very weak acid c) neut	ral d) a base	
	3) Bronze consists of				
	a) Zn and Cu	b) Zn and S	c) Cu, Sn and Z	n d) Zn, Ni and Sr	1.
			ydrogen ion concentration		
	a) 10 ⁻⁴	b) 10 ⁻¹⁰	c) 1010	d) 104	

When a solution contains eq be around.	ual concentration of h	ydrogen ions and h	nydroxyl ions, its pH	will
a) 14	b) 10	c) 7	d) 0	
6) If $x + y = 4$ and $x - y = 4$	-y = 3, them $(x + 2y)$) is,		
a) 0.5	b) 3.5	c) 4	d) 4.5	
7) A tank contains 10 gawater out of the tank,	allons of water, If a pu	imp tanks (15- ×)	minutes to pump 1	- gallon of
water out of the tank	how many minute it	will take 10	for the nump to am	nty the tenl
a) <u>x</u> x		c) 150-10x	d) 150 -	
8) If the ratio of the area squares is	as of two squares is 2:	l, then the ratio of	the perimeters of the)
a) 1:2	b) 1: √2	c) √2:1	d) 2:1	
in 40 minutes? a) 27	ould 45men working i	c) 54	at the same rate man	uracture
10) If $X = 3$, then 9	9y² equals.			
y Z		2.2		
y Z a) <u>x²</u> 9	b) x ² z	c) x^2z^2	$d) 3x^2$	
11) The next number in	the gaometric progress	sion 5 10 20	:-	
a) 25	b) 30	c) 35	d) 40	
12) Successive discount a) 30%	s of 20% and 15% are b) 32%	equal to a single d c) 34%	liscount of d) 35%	
13) If $X = Y = 2Z$ and x.	$v_{7} = 108$ then $v_{7} = 108$	le .		
a) 3	b) 3 √2	c) 6	d) 2√2	
14) If the area of a square a) 13%	re increases by 69% th b) 30%	en the side of the s c) 39%	equare increases by d) 69%	
15) 2 4 1 -	V where V is			
15) $\frac{2}{5} + \frac{1}{3} =$	$\frac{\Lambda}{30}$, where Λ is		<u>,</u> *	
a) 4	b) 11	c) 16	d) 22	
16) A number is as mucl	n greater than 17 as it	is less than 57, find	I the number	
a) 36	b) 37	c) 40	d) 44	
17) If the number of two			than the number,	
find the number if the	b) 22		d) 40	

		two numbers is				م
		a) -2	b) 2	c) 3	d) 5	
-	19)]	If the lengths of the tv 15cm respectively, th a) 15.8cm	nen the length of th			8xm and
		are prime numbers.		How many of these c) 3	e consecutive integers d) 4	
Q.3	Ехр	and the abbreviation	·	,	,	3
	1.	GICED				
	2.	UNO				
	3.	W H O				
	4.	B.Com				****
	5.	I A S				
	6.	M B A				
Q.4	Wha	at is the businesses of	f the following org	ganizations		2
	1.	KANSAI NEROL	AC			7/11/2///
	2.	BLUE DART				
	3.	LARSEN AND TO	OUBRO			major of
	4.	ASHOK LEYLAN	1D			
Q.5	Wha	at is the atomic numl	ber of	· .		2
	1.	Oxygen				
	2.	Carbon		,		A 1000 A 100 A
	3.					
		G = 41				

18) If the product of two numbers is 10 and the sum of the two numbers is 7, then the larger of the

1.	Sulphuric acid
2.	Potassium Permanganate
3.	Calcium Phosphate
4.	Aluminium Sulphate
5.	Phosphoric acid
5.	Sodium Carbonate

Q:6

Write the molecular formula of

3

UGDPAT

Seat	no.:	essé.

UNIVERSITY OF MUMBAI GARWARE INSTITUTE OF CAREER EDUCATION & DEVELOPMENT DIPLOMA IN PAINT APPLICATION TECHNOLOGY ENTRANCE EXAM

DATE: 15/07/2011	TIME: 11 AM. TO 12 PM.	MARKS:50
Q.1] Complete the following:		[20]
1) A solution is defined a	as	
요한 12 분드로 프로젝트 (1997년 1997년 1997년 - 1997년 (1997년 1997년 1 1997년 - 1997년 (1997년 1997년		
2) Boiling point is		

4) An endothrmic reaction	on is	

Special Provided States and the contract of th	ender varietie (g. 1975) gegener varie van de state gegener varietie (g. 1974) gewener van de gegener varietie	

	5) Neutralisation is	
5)	5) pOH is defined as	
)	Ruffer solution is	
		되어 되는 사람은 얼마 얼룩 모양을 모양을 받았다.
	Atomic number is	
)		
	Atomic number is	
	Atomic number is Galvanisation is a process	
-	Galvanisation is a process Antacid is	
	Atomic number is Galvanisation is a process	

Q.MJ	Answer the following and circle your choice. [20]
	1) Which of the following is not a thermodynamic property.a) Time b) Temperature c) Pressure d) Volume
	 2) If an acid is diluted. a) pH increases b) pH decreases c) No change occurs d) Can vary depending upon the acid 3) A buffer solution has always. a) pH = 7 b) pH=9 c) a definite pH d) Equal number of H+ and OH -ions
	 4) If the pH value of a solution is zero the solution is. a) a strong acid b) a very weak acid c) Neutral d) a base
	5) The number of neutrons in the nucleus of an atom is represented by a) A-Z b) Z-A c) A d) Z
	6) Brass consists of a) Zn and Cu b) Zn and Sn c) Cu, Sn and Zn d) Zn, Ni and Sn
	7) Formic acid is obtained from a) Vinegar b) Red ants c) Butter d) Oil
	8) Chloromycetin is effective in the treatment of a) Cholera b) Typhoid c) Tuberculosis d) Malaria
	9) Solution of phenol is used asa) an antibiotic b) an analgesic c) an antioxidant d) a disinfectant
	10) pH +pOH is, a) 7 b) Zero c) 10 d) 14
	 11) If the length of a rectangle is increased by 20% and the breadth is decreased by 20%, then the area a) Decreases by 20% b) Decreases by 4% b) Remains the same d) Increases by 10%
	12) 0.03 times 0.05 is a) 15% b) 1.5% c) 0.15% d) 0.015%
	13) The ratio of the areas of two squares is 2:1 then the ratio of the perimeters of the squares
	is a) 1:2 b) 1: $\sqrt{2}$ c) $\sqrt{2}$:1 d) 2:1
	14) If 0.2% of x is 0.03 then x is a) 150 b) 66.5 c) 15 d) 1.5

15) Ig x=y=2z, and x. y. z= 256, then x equals a) 2 b) 4 c) 6 d) 8 16) If the side of a square increases by 40% then the area of the square increases by a) 16% b) 40% c) 96% d) 116% 17) The product of 2 numbers is 5 and one of the numbers is 3/2, then the sum of the two numbers is, a) 4 ½ b) 4 2/3 c) 4 5/6 d) 5 1/6 18) If the area of a tringale with base s, is equal to the area of a square of side s, then the allitude of the triangle is a) s b) 2s c) 3s d) 4s 19) What is the ratio of 2/3 to 5/4 a) ½ b) 10/12 c) 8/15 d0 2/7 20) The addition of a positive number with its reciprocal is twice of their difference, the number is a) √2 b) √2 c) √3 d) 1√3 1] Expand the following abbreviations. [1] IPL 2) DPAT 3) M. Sc 4) UNO [2] What is the business of the following organisations. [3] What is the business of the following organisations. [4] Maruti Suzuki [5] Give the manes of: [6] Prime Minister of India 2) Union Home Minister 3) Union Finance Minister 4) Chief Minister of Maharashtra		* .			-	
16) If the side of a square increases by 40% then the area of the square increases by a) 16% b) 40% c) 96% d) 116% 17) The product of 2 numbers is 5 and one of the numbers is3/2, then the sum of the two numbers is, a) 4 ½ b) 4 2/3 c) 4 5/6 d) 5 1/6 18) If the area of a tringale with base s, is equal to the area of a square of side s, then the altitude of the triangle is a) s b) 2s c) 3s d) 4s 19) What is the ratio of 2/3 to 5/4 a) ½ b) 10/12 c) 8/15 d0 2/7 20) The addition of a positive number with its reciprocal is twice of their difference, the number is a) \(\frac{1}{2} \) b) \(\frac{1}{2} \) c) \(\frac{1}{3} \) d) \(\frac{1}{3} \) 11) Expand the following abbreviations. 11) TPL 22) DPAT 33) M. Sc 44) UNO 14) What is the business of the following organisations. 15) Kansai Nerolac 26) DHL 37) Godrej and Boyce 48) Maruti Suzuki 19 Give the manes of: 10 Prime Minister of India 21 Union Home Minister 33) Union Finance Minister	15)	Ig x=y=2z, an	d x. y. z= 256			
a) 16% b) 40% c) 96% d) 116% 17) The product of 2 numbers is 5 and one of the numbers is 3/2, then the sum of the two numbers is, a) 4 ½ b) 4 2/3 c) 4 5/6 d) 5 1/6 18) If the area of a tringale with base s, is equal to the area of a square of side s, then the altitude of the triangle is a) s b) 2s c) 3s d) 4s 19) What is the ratio of 2/3 to 5/4 a) ½ b) 10/12 c) 8/15 d0 2/7 20) The addition of a positive number with its reciprocal is twice of their difference, the number is a) √2 b) √2 c) √3 d) √3 If Expand the following abbreviations. 1) IPL 2) DPAT 3) M. Sc 4) UNO The What is the business of the following organisations. 1) Kansai Nerolac 2) DHL 3) Godrej and Boyce 4) Maruti Suzuki Give the manes of: 1) Prime Minister of India 2) Union Home Minister 3) Union Finance Minister		a)	b) 4	c) 6	d) 8	ang at taga Partan San
numbers is, a) 4½ b) 42/3 c) 45/6 d) 51/6 18) If the area of a tringale with base s, is equal to the area of a square of side s, then the altitude of the triangle is a) s b) 2s c) 3s d) 4s 19) What is the ratio of 2/3 to 5/4 a) ½ b) 10/12 c) 8/15 d0 2/7 20) The addition of a positive number with its reciprocal is twice of their difference, the number is a) \(\subseteq 2 \) b) \(\subseteq 2 \) c) \(\subseteq 3 \) d) \(\subseteq 3 \) 1) Expand the following abbreviations. 1) IPL 2) DPAT 3) M. Sc 4) UNO 4) What is the business of the following organisations. 1) Kansai Nerolac 2) DHL 3) Godrej and Boyce 4) Maruti Suzuki Give the manes of: 1) Prime Minister of India 2) Union Home Minister 3) Union Finance Minister	16).	If the side of a a) 16%	square increa b) 40%	ses by 40% th c) 96%		re increases by
a) 4½ b) 42/3 c) 45/6 d) 51/6 18) If the area of a tringale with base s, is equal to the area of a square of side s, then the altitude of the triangle is a) s b) 2s c) 3s d) 4s 19) What is the ratio of 2/3 to 5/4 a) ½ b) 10/12 c) 8/15 d0 2/7 20) The addition of a positive number with its reciprocal is twice of their difference, the number is a) √2 b) √2 c) √3 d) 1√3 If Expand the following abbreviations. 1) IPL 2) DPAT 3) M. Sc 4) UNO I What is the business of the following organisations. 1) Kansai Nerolac 2) DHL 3) Godrej and Boyce 4) Maruti Suzuki Give the manes of: 1) Prime Minister of India 2) Union Home Minister 3) Union Finance Minister	17)	The product of numbers is	f 2 numbers is	5 and one of	the numbers is 3/2, the	n the sum of the two
allitude of the triangle is a) s b) 2s c) 3s d) 4s 19) What is the ratio of 2/3 to 5/4 a) ½ b) 10/12 c) 8/15 d0 2/7 20) The addition of a positive number with its reciprocal is twice of their difference, the number is a) √2 b) √2 c) √3 d) 1√3 I) Expand the following abbreviations. 1) IPL 2) DPAT 3) M. Sc 4) UNO [] What is the business of the following organisations. 1) Kansai Nerolac 2) DHL 3) Godrej and Boyce 4) Maruti Suzuki Give the manes of: [2 1) Prime Minister of India 2) Union Home Minister 3) Union Finance Minister 3) Union Finance Minister			b) 4 2/3	c) 45/6	d) 5 1/6	
a) s b) 2s c) 3s d) 4s 19) What is the ratio of 2/3 to 5/4 a) ½ b) 10/12 c) 8/15 d0 2/7 20) The addition of a positive number with its reciprocal is twice of their difference, the number is a) √2 b) √2 c) √3 d) 1/3 If Expand the following abbreviations. [1] IPL 2) DPAT 3) M. Sc 4) UNO [2] What is the business of the following organisations. [3] What is the business of the following organisations. [4] What is the business of the following organisations. [5] Odrej and Boyce [6] Waruti Suzuki [7] Give the manes of: [8] Cive the manes of: [9] Union Home Minister [9] Union Finance Minister [10] Union Finance Minister	18) a	If the area of a lititude of the t	tringale with	base s, is equa	al to the area of a squa	re of side s, then the
a) 1/4 b) 10/12 c) 8/15 d0 2/7 20) The addition of a positive number with its reciprocal is twice of their difference, the number is a) 1/2 b) 1/2 c) 3 d) 1/3 IJ Expand the following abbreviations. [1] IPL 2) DPAT 3) M. Sc 4) UNO [2] What is the business of the following organisations. [3] What is the business of the following organisations. [4] What is the business of the following organisations. [5] DHL 3) Godrej and Boyce 4) Maruti Suzuki Give the manes of: [6] Prime Minister of India 2) Union Home Minister 3) Union Finance Minister				c) 3s	d) 4s	
20) The addition of a positive number with its reciprocal is twice of their difference, the number is a) \(\sum_2 \) b) \(\sum_2 \) c) \(\sum_3 \) d) \(\sum_3 \) I] Expand the following abbreviations. [1] IPL 2) DPAT 3) M. Sc 4) UNO [2] What is the business of the following organisations. [3] Kansai Nerolac 2) DHL 3) Godrej and Boyce 4) Maruti Suzuki Give the manes of: [2] 1) Prime Minister of India 2) Union Home Minister 3) Union Finance Minister 3) Union Finance Minister						
number is a) \(\sqrt{2} \) b) 1 \(\sqrt{2} \) c) \(\sqrt{3} \) d) 1 \(\sqrt{3} \) l] Expand the following abbreviations. [1] IPL 2) DPAT 3) M. Sc 4) UNO [2] What is the business of the following organisations. [3] Kansai Nerolac 2) DHL 3) Godrej and Boyce 4) Maruti Suzuki [4] Give the manes of: [5] [6] [7] Prime Minister of India 2) Union Home Minister 3) Union Finance Minister 3) Union Finance Minister	a) 1/4	b) 10/12	c) 8/15	d0 2/7	
a) \(\sqrt{2} \) b) \(\sqrt{2} \) c) \(\sqrt{3} \) d) \(\sqrt{3} \) I] Expand the following abbreviations. [1] IPL 2) DPAT 3) M. Sc 4) UNO What is the business of the following organisations. [2] What is the business of the following organisations. [3] Kansai Nerolac 2) DHL 3) Godrej and Boyce 4) Maruti Suzuki Give the manes of: [2] 1) Prime Minister of India 2) Union Home Minister 3) Union Finance Minister	20) î	The addition of	f a positive nu	ımber with its	reciprocal is twice of	their difference, the
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1) IPL 2) DPAT 3) M. Sc 4) UNO What is the business of the following organisations. 1) Kansai Nerolac 2) DHL 3) Godrej and Boyce 4) Maruti Suzuki Give the manes of: 1) Prime Minister of India 2) Union Home Minister 3) Union Finance Minister	I] Expa	and the followi	ng abbreviatio			
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2) DHL 3) Godrej and Boyce 4) Maruti Suzuki Give the manes of: [2] 1) Prime Minister of India 2) Union Home Minister 3) Union Finance Minister						
3) Godrej and Boyce 4) Maruti Suzuki Give the manes of: [2] 1) Prime Minister of India 2) Union Home Minister 3) Union Finance Minister						
4) Maruti Suzuki Give the manes of: [2 1) Prime Minister of India 2) Union Home Minister 3) Union Finance Minister	2) 10)		<u></u>			
Give the manes of: 1) Prime Minister of India 2) Union Home Minister 3) Union Finance Minister	3) Go	odrej and Boyo	òè :			
1) Prime Minister of India 2) Union Home Minister 3) Union Finance Minister	4) M	aruti Suzuki _	······································		Market and the second s	
2) Union Home Minister 3) Union Finance Minister	Give	the manes of:				
3) Union Finance Minister	I) Pr	ime Minister o	of India			
	2) Ur	nion Home Mi	nister	·····	the second continuous continuous continuous continuous continuous continuous continuous continuous continuous	***************************************
	3) Ur	ion Finance N	Iinister			
					• • • • • • • • • • • • • • • • • • • •	

VI] What is the atomic number of:			[2]
l) Hydrogen			
2) Oxygen			
3) Nitrogen			
4) Iron			
VII]Write the molecular formula of:			[2]
1) Nitric acid			
2) Potassium Dichromate			
3) Methyl alcohol	•	*	
4) Phosphoric acid			
***********	******	********	*****

DPAT

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UNIVERSITY OF MUMBAI GARWARE INSTITUTE OF CAREER EDUCATION & DEVELOPMENT DIPLOMA IN PAINT APPLICATION TECHNOLOGY ENTRANCE EXAM

<u>DA'</u>	ΓE: 16/07/20	010 TIME : 11 AM. TO 1	12 PM.	MARKS:50
Not	e: Answer a	Il Question.		
Q.1]	Define the	following:		(20)
	i)	pH is		
	ii)	Viscosity is		
	iii)	Density is		
	iv)	Neutralisation reaction means		
	v)	Buffer solution is		
	vi)	Normality means		
	vii)	Ionisation is	·	
	viii)	Thermodynamics means		
	ix)	Galvanisation is		
	x)	An Exothermic reaction is		PROVINCIA DA CONTRACTOR DE CON
Q.2]	a) plb) plc) N	ght answer: d is diluted – H increases H decreases ó change occurs an vary depending on acid.		(10)
	a) Str			

	 iii) In an electrochemical cell oxidation occurs on: a) Negative electrode b) Positive electrode c) Reference electrode d) None of these.
	iv) The area of a circle of radius 10 cms is: a) 348 cm ² b) 384 cm ² c) 314 cm ² d) 444 cm ²
	v) 167° F is equal to: a) 85° c b) 67° c c) 75° c d) 92° c
	vi) Brass consists of: a) Zn & Cu b) Zn & Sn c) Cu, Sn & Zn d) Zn,Ni & Sn.
	vii) The Speed of a chemical reaction increases with a) increase in temperature b) decrease in temperature c) increase in concentration d) None of these.
	viii) A number is as much greater than 17 as it is less than 57. Find the number a) 36 b) 37 c) 40 d) 44.
	ix) 3/4 th of a number is equal to 4/3rd of another number, what is the ratio between them a) 7:12 b) 9:16 c) 16:12 d) 6:8.
	x) If the number of two digits is reversed it becomes 18 greater than the number, find the number, if the sum of the digits is equal to 4. a) 31 b) 22 c) 13 d) 40
Q.3]	Answer the following: (5)
,	i) Who is the president of India
	ii) Which is the capital of Maharashtra

	iii) Who is the Chief Minister of Maharashtra	Paula dalamana ang gyanggagagagagagagaga
	iv) Who is the Union Finance Minister	
	v) Where is Tajmahal situated	
Q.4]	What is the standard colour for:	(5)
	i) Fire Brigade	***************************************
	ii) Ambulance	
	iii) Army Vehicle	
	iv) Road marking paints	
	v) Air force uniform	
Q.5]	Expand the following abbreviations:	(3)
	i) IAS	
	ii) B.Sc	
	iii) MA	
	iv) DPAT	
	v) MBA	
	vi) UNO	
		(2)
Q.6]	What is the business of the following companies:	(2)
	i) Tata Motors	
	ii) LIC of India	d annual delication and the state of the sta
	iii) Mazagaon docks	
	iv) DHL	

Q.7]	What is the atomic number of:	(2)
	i) Hydrogen	
	ii) Oxygen	
;	iii) Carbon	
•	iv) Sodium	
		*
Q.8]	Write the molecular formula for: example sodium hydroxide is NaOH	(3)
	i) Sulphuric acid	**************************************
	ii) Phosphoric acid	
	iii) Potassium Dichomate	
	iv) Ethyl alcohol	
	v) Potassium Permanganate	÷
	vi) Hydrochloric acid	
****	*******************************	***
		· ·