



# ETEA engineering 2019

1)	Pollutant which inhibit the synthesis of hemoglobin is a) Hg b) Pb c) Ni d) Ag	12) A source of sound of frequency 500 Hz is moving towards an observer with velocity 30m/sec. the speed of sound is 330m/s. The frequency heard by the observer is
2)	Which of the following alkyl halides shows higher reactivity?  a) R-F  b) R-CI	a) 550 Hz b) 458.3Hz c) 530Hz d) 545 Hz  13) If the area of hysteresis loop of a material is large
3)	c) R-Br d) RI For a reversible reaction, the catalyst increases the	the hysteresis loss in this material will be a) Zero b) small
-1	speed of	c) large d) none of the above
	a) Forward reaction b) Backward reaction c) Both forward and backward reactions equally d) Forward reaction to a larger extent than backward reaction	14) In Young's slit experiment, the separation between the slits in halved and distance between the slits and screen is doubled the fringe width is a) Unchanged b) halved c) double d) quadrupled
4)	2N <sub>2</sub> O <sub>5</sub> → 4NO <sub>2</sub> + O <sub>2</sub> this reaction is an example of order reaction a) 1st b) 2sd c) 3rd d) zero	15) An object at the surface of the earth weighs 90N its weight at a distance 3R from the center of earth is a) 8N b) 9N c) 12N d) 10N
5)	Diamond and graphite are a) Isomers b) isomorphs c) allotropes d) both b and c	16) Capacitance of parallel plate capacitors independent of a) Area of plates of capacitor
6)	Metal sulfate that is comparatively more soluble in water is a) MgSO <sub>4</sub> b) CaSO <sub>4</sub>	b) Medium between plates of capacitor     c) Potential difference between plates     d) Distance between plates of capacitor
7)	c) BaSO <sub>4</sub> d) SrSO <sub>4</sub> CO <sub>2</sub> is a gas at room temperature but SiO <sub>2</sub> is solid., The reason is that a) SiO is ionic b) bonds in SiO2 are very strong c) SiO2 is polymorphic d) Si makes double bonds with O	17) The emf of a battery is equal to its terminal potential difference:  a) Under all condition b) Only when the battery is being charged c) When a large current is in the battery d) Only when there is no current in the external circuit
8)	Mr. Saadhis teeth before breakfast every morning a) Will cleaned b) is cleaning c) cleans d) clean	A laser must be pumped to achieve     A metastable state     b) fast response     c) stimulated emission
9)	I plan to take my vacationin June July a) Whether/or b) either/or c) as it d) if as	d) population inversion  19) Your best friend in going on a near light speed trip.  When at rest you measure her spaceship to be 100
10)		feet long. Now she is in flight and you are on the earth, and you measure her spacecraft to be a) Exactly 100 feet long
11)	$\int_{1}^{2} (\sqrt{x} + \frac{1}{\sqrt{x}}) \sqrt{x} dx :$ a) 5/2 b) $2^{3/2} - 1$	b) less than a 100 feet long c) more than 100 feet long d) none of the above
	c) ½ d) 2	20) The maclaurin's expansion of coshx is:



21)	if $f(x) = 16\sqrt{x}$ than $f^{-}(4) = a$ a) $1/4$ b) $-1/4$ c) $1/16$ d) $-\frac{1}{2}$		foreign electron increases, the potential energy of the system
22)	Maths	1	a) Increases
23)	Maths		b) unaffected c) decreases
24)	$\int \frac{1}{\cos^2 2x}  dx =$		d) first decrease then starts increase
	a) ½ cps 2x + c b) ½ln[sec2x + tan 2x] + c	35)	The formation of but-2-ene always takes place through
	c) ½ tan 2x + c		a) SP <sup>2</sup> hybridization b) SP <sup>3</sup> hybridization
25)	d) ½ ln[cos (2x) - cot (2x)] + c  What happens to the half life of a radioactive	1	c) SP2, SP3 both
231	substance as it decays?	m 43	d) SP, SP <sup>3</sup> both
	a) It remains constant	36)	Pentane C <sub>3</sub> H <sub>12</sub> at room temperature does not obey
	b) it increases	1	a) Charles's law b) boyle's law
	c) it decreases	37)	c) Avogadro's law d) all of the above 20 cm <sup>3</sup> CH <sub>4</sub> gas was burnt in 10cm <sup>3</sup> O <sub>2</sub> to produce
	d) it could do any of these	37)	CO2 as
26)	The area of a book having length 1m and breadth		$CH_4 + 2O_2 \rightarrow CO_2 + 2H_2O$
	0.5m, in cm <sup>3</sup> is given by		The limiting reagent in this reaction is
	a) 5000 b) 5 C) 500 d) 50		a) O b) CH
271			c) CO2 d) None of the above
27)	2π rad/s is approximately equal to a 30 revolutions b) 40 revolution	38)	Work hard you should fail
	c) 50 revolutions d) 60 revolutions		a) Or b) lest
28)		20)	c) that d) none of the above
morp	a) Law of conservation of energy	39)	ampere farad, expected dimension is
	b) Law of conservation of momentum		a) M <sup>0</sup> L <sup>0</sup> T <sup>-1</sup> A <sup>-2</sup> b) M <sup>1</sup> L <sup>1</sup> T <sup>-2</sup> A <sup>-2</sup>
	c) Law of conservation of mass		c) M <sup>0</sup> L <sup>0</sup> T <sup>1</sup> A <sup>2</sup> d) None
	d) Law of conservation of charge	40)	In Compton scattering from stationary particles
29)			the maximum shift in wavelength can be made
	a) Dot product		a) Higher frequency radiation
	b) cross product		b) More massive particles
	c) both dot and cross product d) independent of both		c) Lower frequency radiation
30)			d) Less frequency radiation
30)	the lowest amount of heat of combustion?	41)	Which of the following system below are not
	a) 1-butene b) Trans-2-butene	0.000	inertial reference frames?
	c) cis-2-butene d) Isobutylene		a) A person standing still
31)	During SN2 mechanism, the nucleophile attacks on	10	b) An airplane in mid flight
	the substrate;	121	e) Amerry-go-round rotating at constant rate
	a) When C-X bond has broken	42)	d) All of the above are IFRs A wire carrying current 10mA experiences a force
	b) Before C-X bond has broken	42)	of 2N in a uniform field. What is the force on it
	c) When C-H bond has broken		when current rises to 30mA?
32)	d) After the formation of carbocation  Carat is the unit of purity of gold. 18 carat gold	1	a) 2N b) 4N
34)	contains % gold		c) 6N d) 8N
	a) 50-60 b) 70-75	43)	Citizens arestricter immigration laws.
	c) 90-95 d) 99		a) Asking for b) recommending
33)		-	c) demanding d) none of the above
	distinguish between primary, secondary and	44)	Nadia doesn't like to drive, she takes the bus
	tertiary alcohols?		everywhere a) But b) yet
	a) Baeyer's reagent b) Tollen's reagent		c) so d) if
	c) Lucas reagent d) Nessler's reagent	J.	37.77



45)	NO2 gas shows maximum absorption at about  nm a) 400 b) 700 c) 200 d) 120  Color of the hair dye is mainly due to a) Substituted alcohols	58) Addition of HCN to acetone forms cyanohydrin. It is an example of a) Electrophilic addition reaction b) Nucleophilic addition reaction c) Electrophilic substitution reaction d) Nucleophilic substitution reaction	
181	b) stearalkonium hectorite c) meta substituted aniline d) acetone	59) In ice there are H-Bonds and covalent bonds. What type of solid is it? a) lonic b) covalent	
47)	She insisted helping me with the dishes a) On b) with c) for d) about	c) molecular d) metallic  60) We are very excited our trip to Karachi next week	
48)	A large sum of money stolen. a) Were b) was c) have d) had	a) At b) with c) about d) over 61) Choose the word opposite in meaning to "RETAIN"	
49)	Think not of it [Choose the correct passive voice]	a) Reject b) spare c) renounce d) eject	
	a) It should not be thought. b) Let it not be thought of. c) It must not be thought. d) Let not be think of it-	62) I am looking forward having meeting with you next week a) With b) at c) to d) from	
50)	Limit	63) Maths	
51)	For a function $f(x) = x^2 - 5x + 2$ . Newton's-Raphson method fails for	64) A homogenous equation of degree two has parallel lines only, when:	
F (1)	a) $x_0 = 2/5$ b) $x_0 = -5/2$ c) $x_0 = 5/2$ d) $x_0 = -2/5$	65) Choose the correct sentence a) She is busy at the work and won't be home	
53)	$\frac{d}{dx}x^{a} = ?$ a) $ax^{a-1}$ b) 0 c) $x^{a} \log_{x}a$ d) $x^{a}$ $\frac{d}{dx}(\frac{1}{x}) =$	before 10:30 b) She is busy at work and would not be home before 10:30 c) She is busy at work and won't be home before 10:30 d) She is busy in work and would not be home before 10:30	
	a) $x^2$ b) $-x^2$ c) $\frac{1}{x^2}$ d) $\frac{1}{x^2}$	66) Choose the word nearest in meaning to "DEPLETE"  a) Destroy b) finish	
54)	The sign of the tangent to the curve $y=x^2+5$ at the point (1,2) is:  a) 6 b) 2 c) 5 d)3	c) exhaust d) vanish  67) The order of equation (2x-y+3)dx (y-2x-2)dy=0 a)0 b)1	
55)	Which one of the following produces an NMR spectrum with more than one peak?  a) Ethane b) methane c) butane d) cyclobutane	c)2 d)3 68) Which one of the following function are homogenous? a) x siny + y sin x	
56)	Which one of the following gases is the major contributor greenhouse effect?  a) Ozone b) CO <sub>2</sub>	b) xe y/x + yex/y c) x <sup>2</sup> - x <sup>2</sup> y d) arc sin xy 69) Find f <sub>0</sub> of f(x,y) = sin-1 xy is	
57)	c) CH <sub>4</sub> d) NO <sub>2</sub> Oxidation number of Nickel in tetra carbonyl nickel Ni (CO) <sub>4</sub> is a)+4 b) +3 c) 0 d)-2	a) $\frac{x}{\sqrt{1-x^2y^2}}$ b) $\frac{x}{\sqrt{1-x-y^3}}$ c) $\frac{-y}{\sqrt{1-x^2y^2}}$ d) $\frac{-y}{1-x^2y^2}$	
		70) For non linear function f(x) = 0, Newton-Naphson method is a) b) c) d)	
		71) The accuracy of the approximation can be	



#### Amin Publications 15 80) The compound which you can say ester is improved when approximating strip has: A) CH<sub>2</sub>CONH<sub>2</sub> a)parabolic arc b) squares c) tripozoids CH<sub>1</sub>-C-O-COCH<sub>2</sub> d)rectangles 0 72) A vector can be multiplied by a number, the number may be C) CH3O-C-OCH3 a) Dimensionless b) dimension scalar DI CH3OCOCH3 c) negative B1) The efficiency of electric heater is d) all a, b and c are correct a) 45% b) 60% 73) Equations having a common solution are called. c) 75% d) 100% a) Linear equations The velocity of disc at the bottom of an inclined b) homogeneous equations plane is independent of c) simultaneous equations a) Mass of disc d) none of the above b) radius of disc 74) Which one of the following liquids is more volatile? c) height of inclined plane a) Chloroform b) ethanol d) both a and b c) water 83) Water flows through a lcm diameter pipe with d) Glycerin 75) If the equilibrium constant Kc value for a certain speed of Im/s. what should be the diameter of the reaction is very small, then nozzie if the water is to emerge at 4m/s? a) Reactants are in large amount a) 2.1cm b) 1.6cm b) Products are in appreciable amounts c) lcm d) 0.5cm c) Reactants and products both are in appreciable The ratio of P.E and total energy at extreme position in SHM will be equal to d) In such a situation equilibrium cannot be a) 1 b)1/2 obtained. c) 1/4 d)zero 76) Which one of the following form acidic solution The speed of sound in air is 334m/s at a pressure when dissolved in water? P. what will be the speed of sound if the pressure a) Na<sub>2</sub>CO<sub>3</sub> b) CH<sub>3</sub>COONa becomes 4P? c) NH<sub>4</sub>Cl d) K<sub>2</sub>CO<sub>3</sub> a) 167m/s b) 334m/s 77) Zinc and copper electrodes are connected for c) 668m/s d) 1336 m/s galvanic cell and salt bridge is also immersed in In monochromatic red light a blue book wi 86) both the half-cell, the salt bridge will give cation to probably appear to be a) Copper half cell a) Purple b) green b) zinc half cell c) black d) none of the above c) both a and 87) Two identical heat engines "A" and "B" have their d) None of the above sources at 600k and 400k and their sinks at 300k 78) When K<sub>4</sub>[Fe<sub>9</sub>CN<sub>6</sub>] is dissolved in water. It will and 250k respectively. What can you say about furnish \_\_\_\_ ions per molecule. their efficiency? a) 10 b) 2 a) A is more than B c) 6 d) 5 b) A is less than B 79) Choose the alkyne that on catalytic hydrolysis form c) both have equal efficiency an aldehyde d) the date given is not sufficient a) CH<sub>2</sub>-C=CH Which one is not endothermic process? a) Atomization of I<sub>2</sub> b) electrolysis of water c) condensation of vapors b) d) both b and c c)CH3-CsiC-CH3 89) One mole of which of the following bucky ball will d) None of the above have more molecules?

b) C<sub>50</sub>d) all same

a) C20

c) C60



	ro-2-propanol molecules are		d)scalar matrix	
3) 2	b) 3	102. When a selection of objects is made without paying		
91) For a	c) 4 d) 7 For a balanced wheat stone bridge, the current	regard to order of selection, it is called the: a) permutation b)combination		
	ugh the galvanometer is aximum b) minimum	c) series d) sequence		
		103	Two factorization of x2 + x is;	
92) Two each will	<ol> <li>Two parallel conducting wires placed closer to each other carry current in the opposite direction will</li> </ol>	a) $(z+\sqrt{6})(x-\sqrt{6})$ b) $(z+6)^2$ c) $(z+\sqrt{6}t)(x+\sqrt{6}t)$ d) $(z+\sqrt{6}t)(x-\sqrt{6}t)$		
b) re c) no	tract each other epel each other o effect	104	The work done by a magnetic field on a moving charge is a)BqvL b)Bqv/L	
	one of the above		c) zero d) positive	
emf v a) In c) re	crease b) decrease mains same d) none	105]	Four wires meet at a junction. The first carries 4A into junction, the second carries 5A out of the junction and 3 <sup>rd</sup> carries 2A out of the junction. The 4th carries	
relati a) In b) cu	capacitive circuit, current and voltage phase ion is phase phase urrent leads voltage by 90° oltage leads current by 90°		a) 7A out of the junction b) 7A into the junction c) 3A out of the junction d) 3A into the junction	
11.00	one of the above	106	A 10 turn conducting loop spins at 60 revolutions	
a) Str	ability of solids to resist bending is called rength b) hardness ughness d) stiffness	the either d) None of the above are true	maximum emf generated is a) $200 \pi^2 r^2$ b) $300 \pi^2 r^2$	
a) Pr	ch one is known as antimatter or antiparticle? roton b) electron eutron d) positron		According to the theory of relativity a) Moving clock runs fast	
a) Or b) sp e) sti	r light is the result of rdinary emission contaneous emission imulated emission		C) The speed of light must be measured relative to the either d) None of the above are true	
98) Radio	l of the above oactivity is affected by emperature b) pressure	108,	Which one of the following has the greatest effect in decrease the oscillation frequency of an LC circuit using instead?	
c) hu	imidity level d) None of the above	-	a) $\frac{L}{2}$ and $\frac{c}{2}$ b) $\frac{L}{2}$ and 2C	
	r in motion hits and gets embedded in a tree k. What is conserved?	ШU	c) 2L and 2C	
a) Mo b) Ki c) ne	omentum and K.E inetic energy alone either K.E nor momentum fomentum alone	109	The relation between the disintegration constant $\lambda$ and the half life T of a radioactive substance is a) $\lambda = 1/T$ b) $\lambda = 2/T$ c) $\lambda t = \ln 2$ c) $\lambda t = \ln (\frac{1}{2})$	
	etallic carbide on treatment with water gives	110	if slope of a line is 2 then slope of the line	
out a colorless gas, which burns in air readily and gives a red precipitate with CuCl <sub>2</sub> and NH <sub>4</sub> OH		perpendicular to this line is equal to		
		a) -2 b) -1/2		
Ident	tify the gas.	***	c) 2 d) 0	
a) CF		111	A line x= B touch a circle	
	H <sub>1</sub> d) C <sub>2</sub> H <sub>6</sub>	1	$x^2 + y^2 \cdot 6x \cdot 4y - 12 = 0$ at:	
	spose of a rectangular matrix is a:		a) (2,8) b)(8,-2)	
	a) rectangular matric b) diagnol matrix		c) (8,2) d)(-2,8)	



at the mast ofpoints allbiz =	112] The line $y = mx + c$ intersects the circle $x^2 + y^2 = a^2$	c) belong d) belonged
113] The equation (x+y)² + (y-1)² = b represents a circle with radius a)√6 b)6 c)0 d)1   126, a² + b² = a) (a+b)(a+b) (b)(a+b)(a-b)   127, a constant in the number of a) (a) (a+b)(a-b)   128, a constant in the number of a) (a) (a+b)(a-b)   129, a constant in the number of a) (a) (a) (a) (a) (a) (a) (a) (a) (a)	at the mast of points	125' The reciprocal of the number 't' is
113. The equation (x+4)² + (y-1)² = b represents a circle with radius a)√6 b)6 c)0 d)1  114. A line y=-x-c, will touch a parabola x² − βy only when a)½ b)-2 c)2 d)-½  115. The focus of the parabola y² = −B (x-3) is ? a)(0,1) b)(1,0) c)(0,1) d)(1,1)  116. A differential equation is considered to be ordinary if it has; a)more dependent variable b) more than one dependent variable c)one independent variable d) nor than one independent variable c)one independent variable d) nor than one independent variable d) undeterminable to be linear or non linear c)linear with fixed points d) undeterminable to be linear or non linear d) undeterminable to be linear or non linear a) MLT² b) MLT⁻² c) MLT⁻¹ d) MLT⁻² d) Actanded on hydrolysis gives a) Acetaldehyde b) acetic acid c) ethyl amine d) ethanoic acid d) ethanoic acid d) ethanoic acid c) ethyl amine d) ethanoic acid d) ethano	1678 DD 1678 D	
with radius $a)\sqrt{6}$ $b)6$ $c)0$ $d)1$ $d)1$ $d$ $d$ line $y=-x-c$ , will touch a parabola $x^2-\beta y$ only when $a)1/x$ $b)-2$ $c)2$ $d$ $b)-2$ $c$ $d$	the state of the s	CONTRACTOR OF CO
c)0 d)1  114) A line y=-x-c, will touch a parabola $x^2 - \beta y$ only when a) $\frac{y}{y}$ b)-2 d) $\frac{y}{y}$ c)115) The focus of the parabola $y^2 = -B(x-3)$ is ? a)(0,1) b)(1,0) d)(1,1) d)(1,1) b)(1,0) d)(1,1)  116) A differential equation is considered to be ordinary if it has; a)more dependent variable b) more than one independent variable c)one independent variable d) nore than one independent variable c)one independent variable d) nore than one independent variable d) nore than one independent variable d) none than one independent variable d) none than one independent variable c)one independent variable d) none than one independent variable d) none than one independent variable d) none than one independent variable c) b) $\frac{y}{dx} + x^2y = x + 2$ a)linear b) non linear c)linear with fixed points d) undeterminable to be linear or non linear c)linear with fixed points d) undeterminable to be linear or non linear c) $\frac{y}{dx} + x^2y = x + 2$ a) $\frac{y}{dx} = \frac{y}{dx} = \frac$		The state of the s
114. A line y=-x-c, will touch a parabola x² − βy only when  a)½ b)-2 c)2 d)-½ The focus of the parabola y² = -B (x-3) is ? a)(0,1) b)(1,0) d)(1,1) 116. A differential equation is considered to be ordinary if it has; a)more dependent variable b) more than one independent variable c)one independent variable d) nore than one independe	a)√6 b)6	
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c)0 d)Diagnol matrix of order mxn and B is matrix of order nxp then order of BA is appx mid and pressure are identical dall matrix and monochlorates.  129 Mid one than one independent variable that and in matrix of order nxp then order of BA is appx mandal and pressure are identical dall Benzene is aromatic and B is matrix of order nxp then order of BA is and px matrix of order nxp then order BA is and px matrix of order nxp then order BA is and px monochlorates.  120 Action and the pressure is interested and all that and px matrix of order nxp then order BA is and px matrix of order nxp then order BA is and px monochlorates.  121 A given sample of AlCi, contains 6.02 x 1020 Alivity and px matrix of or	114] A line y=-x-c, will touch a parabola x <sup>2</sup> – βy only	
128   If A is a matrix of order mxn and B is matrix of order nx p then order of BA is:	when	CONTRACTOR OF THE PROPERTY OF
115) The focus of the parabola $y^2 = -B (x-3)$ is ? a)(0,1) b)(1,0) c)(0,1) d)(1,1) c)(0,1) d)(1,1) c)(0,1) d)(1,1) c)(0,1) d)(1,1) c)(0,1) d)(1,1) c)(1,1) d)(1,1)	APA D	the same of the sa
a) (0,1)   b) (1,0)   c (0,1)   d) (1,1)     116  A differential equation is considered to be ordinary if it has;   a) more dependent variable     b) more than one dependent variable     c) more than one independent variable     d) nore	CONTRACTOR OF STREET STREET, STREET STREET, STREET STREET, STR	
Cin x p   d) m x p		The state of the s
116. A differential equation is considered to be ordinary if it has; a)more dependent variable b) more than one dependent variable c)one independent variable d) nore than one independent variable c)one independent variable d) nore than one independent variable c)one independent variable d) nore than one independent variable c)one independent variable d) nore than one independent variable c)one independent variable d) nore than one independent variable c)one independent variable d) nore than one independent variable c)one independent variable d) nore than one independent variable c)one independent variable d) nore than one idependent variable c)one independent variable d) nore than one idependent variable c) fill c-G in benzene are identical d) All C-G in benzene are identical c) All C-G in benzene are identical d) Benzene sometimes belaves as non-aromatic 130 A greadro's constant in the number of a) Atoms in 1g of He b) monecules of C-C will be a) Atoms in 1g of He b) monecules of C-C will be a) Atoms in 1g of He b) monecules of C-C will be a) k 10 <sup>3</sup> All	100 (100 (100 (100 (100 (100 (100 (100	AND
if it has; a)more dependent variable b) more than one dependent variable c)one independent variable d) nore than one independent variable d) nore and the index of t		
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121) Which one of the following does not have carboxylic acid group?  a) Benzoic acid b) ethanoic acid c) picric acid d) adipic acid  122) He is quite deaf my requests a) With b) about c) to d) of  123] He said to me, how long will you stay here? [Choose the correct indirect speech a) He said to me how long I would stay here b) He asked me how long I would stay there. d) He inquired for how long I will stay there.  124] The leader, as well as his brothers, to the same tribe  a) Benzoic acid b) ethanoic acid c) 2p3d d) 3d  134] Which statement about the following molecules is incorrect?  a) NH <sub>3</sub> has pyramidal shape b) CO <sub>2</sub> is linear c) H <sub>2</sub> O is angular d) H <sub>2</sub> S is linear  135. The molecule having zero dipole moment among the following a) NH <sub>3</sub> b) SnCl <sub>2</sub> c) PH <sub>3</sub> d) CCl <sub>4</sub> 136. For a gas when volume and pressure are Idm <sup>3</sup> and 2 atm respectively. What will be its new volume if the pressure is increased to 6 atm at constant temperature?		
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c) He asked me how long I would stay there. d) He inquired for how long I will stay there.  136 For a gas when volume and pressure are Idm <sup>3</sup> and 2 atm respectively. What will be its new volume if the pressure is increased to 6 atm at constant temperature?		
124] The leader, as well as his brothers, to the same tribe  2 atm respectively. What will be its new volume if the pressure is increased to 6 atm at constant temperature?		the same of the second control of the second
124] The leader, as well as his brothers, to the same the pressure is increased to 6 atm at constant temperature?	2 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	
temperatures		the pressure is increased to 6 atm at constant
a) belonging b) belongs b) 1/3 dm <sup>3</sup>		
	a) belonging b) belongs	a ½ dm <sup>3</sup> b) 1/3 dm <sup>2</sup>



c)1/4 dm <sup>3</sup> d) 2/3 dm	147. Alkyl halides are reactive towards nucleophilic attack because a) They are ionic in nature b) The C-X bond is non-polar c) They have nucleophilic carbon and bad leaving group d) They have electrophilic carbon and good leaving group
137] Vapor pressure of a liquid does not depend on a) Temperature b) intermolecular forces c) amount of liquid d) amount of solid dissolved in liquid	
138] instead of beatingthe brush, straightaway come to the point a) Away b) out c) about d) on	148 Methyl alcohol on oxidation with acidified K <sub>2</sub> Cr <sub>2</sub> O <sub>7</sub> , gives a) CH <sub>3</sub> COCH <sub>3</sub> b) CH <sub>3</sub> CHO c) HCOOH d) CH <sub>3</sub> COOH
139] A small block oscillates back and forth on a smooth concave surface of radius R. the time period of small oscillation is	149. The scalar triple product of i-j,j-k and k-l is?  a) 1
a) $T = 2\pi \sqrt{\frac{R}{g}}$ b) $T = 2\pi \sqrt{\frac{2R}{g}}$ c) $T = 2\pi \sqrt{\frac{R}{2g}}$ d) None of the above	150 For three vectors a,b,c, d(b+c) = b (d+c), then ?  a)a (b+c) = 0 b) c(a+b) = 0  c)b(a+c)=0 d) c(a+b) = 0  151 For non-collinear vector A and B, the correct result
140] The process or systems that do not involve exchange of heat are called a) Isothermal process b)equilibrium process c) thermal process	is a)pA + qB = 0, p $\neq$ 0, q $\neq$ 0 b) pA + qB = 0, p=0, q=0 c) pA + qB $\neq$ 0, p=0, q=0 d) pA + qB $\neq$ 0, p $\neq$ 0, q $\neq$ 0
d) adiabatic process  141] When NH <sup>4</sup> CI is added to a solution of (NH <sub>4</sub> ) <sub>2</sub> CO <sub>3</sub> , there will be?  a) Decrease in (NH <sub>4</sub> *) ions concentration	152] Arthmetic mean between $2 + \sqrt{2}$ and $2 - \sqrt{2}$ is: a) $2$ b) $\sqrt{2}$ c) 0 d) 4
b) Decrease in CO <sub>3</sub> <sup>-2</sup> ions c) No change in CO <sub>3</sub> <sup>-2</sup> concentration d) No change in concentration of any specie  142] The strongest base among the following is a)Cl <sup>-</sup> b) Br <sup>-</sup>	153 A function whose domain is the set of natural numbers is called a) identity function b) series c) sequence
c)l· d) CH COO-  143] During the discharge of lead acid battery a) Pb is dissolved at the cathode b) Pb is deposited at the cathode	d) onto function  154. If sum of five arthmetic mean b/w a and b is 50, then their arithmetic mean is; a) 25 b)50 c)10 d)20
c) PbSO <sub>4</sub> is formed at both anode and cathode d) Concentration of H <sub>2</sub> SO <sub>4</sub> increases 144] Acidic KMnO <sub>4</sub> can't be used for the estimation of	155: The dimension of pressure is a) ML T T b) ML 2 T 2
a) Ferrous ions b) oxalic acid c) Potassium iodide d) Ferric ions	c) [MLT <sup>2</sup> d) ML <sup>2</sup> T <sup>2</sup> 156] The magnitude of two forces each of them is ION are added together such that the magnitude of
145] A compound X is orange red in color, when KOH is added to it, lemon yellow coloration is obtained, compound X is a) K CrO b) KCr O.	their resultants is also ION. then the angle between the forces is a) 30° b) 60° c) 90° d) 120°
c) KMnO4 d) PbS  146] Ozonolysis of 2-Methyl-2-butene yields a) Only aldehyde b) only ketone c) both aldehyde and ketone d) aldehyde and alcohol	157. Two railway trucks of masses m and 5m move towards each other in opposite direction with speed 3v and v respectively. These trucks collide and stuck together. What is the speed of the truck after collision?  a) v/3 b) v/2 c) v d) 5v/4



a) Was not allowed b) had not allowed c) will not allow d) are not allowed	phasor from which quantity?  a) Voltage  b) resistance
159] Can you a few lines from wordsworth to prove that he is a poet of nature?  a) Side b) site c) site d) cite  160] Converse =	c) impedance d) current  171] What is the average value of sinusoidal voltage that has a peak value of 15 volts?  a) OV b) 9.56V
$ \begin{array}{ccc} 160) & \frac{\cos x \cos x}{\cos x} = & & \\ a) & \tan x & b) \\ c) & d) \\ \hline 161] & \frac{\cos \theta - \tan \theta}{2} = & & \\ \end{array} $	c) 10.6V d) 19.1V  172 Which of the following has the largest kinetic energy? a) 2M and 3V b) 5M and 2V
a) $\tan \theta \sin \theta$ a) $\tan (\frac{\theta - \varphi}{2})$ b) $\tan (\theta - \varphi)$ c) $\tan (\frac{\theta - \varphi}{2})$ d) $\tan (\theta - \varphi)$	c) 3M and 4V d) M and V  173; The SI unit of electric charge is a) AS-1 b) VS-1 c) A d) S
162] The expression $\tan (3\theta) =7$ a) $\frac{1 \tan \theta - \tan^3 \theta}{1 - \tan^3 \theta}$ b) $\frac{3 \tan \theta - \tan^3 \theta}{1 + 3 \tan^3 \theta}$ c) $\frac{2 \tan \theta - \tan^3 \theta}{1 - 3 \tan^3 \theta}$ d) $\frac{1 \tan \theta + \tan^3 \theta}{1 - 3 \tan^3 \theta}$	174 Aldehydes are reducing agents, in the reaction with Fehling's solution they reduce a) Cu <sup>+2</sup> ions b) Ag <sup>+</sup> ions c) NaOH d)Na  175 In ice the water molecules are bounded by a) ionic bonds b) hydrogen bonds c) covalent bonds d) metallic bonds 176 The property of crystalline solid necessary to maintain habit of crystal is called
163) Law of cosine states that: a) $a^2 = b^2 + c^2 - 2bc \cos \gamma$ b) $b^2 = a^2 + c^2 + 2bc \cos \beta$ c) $c^2 = a^2 + b^2 - 2bc \cos \gamma$ d) $a^2 = b^2 + c^2 - 2bc \cos \alpha$ 164) Numerical integration for single function is also	a) Crystal lattice b) lattice site c) geometrical shape d) Polymorphism  177 The dispersion phase and dispersion medium for soap lather is respectively a) Gas and solid b) gas and liquid c) liquid and liquid d) solid and liquid
called a) area b) volume c) numerical quadrature d)both A and C  165] Domain of sec[x] is; a) [-1,1]	178 Which one is not correct for the stability of colloidal solution?  a) Greater charge density on colloid b) Less salvation energy c) More Brownian motion
b)R c) R $\rightarrow$ [x]x = $(2n+1)\pi/2$ , neZ d) R $\rightarrow$ [x]x = nn, niZ	d) None of the above  179 The n <sup>th</sup> term of arithmetic geometric mean is a) [a+(n-1d)]r <sup>n</sup> b)[a+(n-1d)]r <sup>n+1</sup>
166] Principle value of cos <sup>-3</sup> [cos(5)]? a)5 b)π-5 c)5-π d) 2π-5	c) $[a+(n-1d)]r$ d) $[a+nd)]r^{n-1}$ $180 \ ^{n}C_{2} + ^{n}C_{3} =$ $a)^{n}C_{3}$ b) $^{n}C_{1}$
167] The relation sec [arc tanx] = ? a) $\sqrt{x^2 - 1}$ b) $\frac{1}{\sqrt{1 + x^2}}$ c) $\sqrt{x^2 + 1}$ d) $\frac{1}{\sqrt{1 - x^2}}$	181] For independent events A and B, $P(A \cap B) = ?$ a) $P(A)$ , $P(B A)$ b) $P(A)$ U $P(B)$
168] $\int x^2 dx = a) x^2 + c b) \pi^2 + c$ $c) \frac{x^{2+3}}{x+3} + c d) \pi x^{2-1} + c$	c)P(A),P(B) d)P(A) \cap P(B)  182 For a random experiment, all possible outcome are a) numerical space b)sample space c) event space d) both b and c
169) An emf of 16 volts is induced in a coil of inductance 4 H The rate of change of current must be a) 64 A/s b) 32A/s c) 16 A/s d) 4 A/s	183] If x is so small that square and higher powers can be neglected then (1+3x) <sup>-2</sup> = a)1+9x b)1-9x c) 1+6x d) 1-6x  184] The last term of the expansion are (3x+3y) <sup>-2</sup> is



a) 7y <sup>7</sup> b) 3 <sup>7</sup> y <sup>7</sup> c) 21y <sup>7</sup> d)y <sup>7</sup>	a) 0.61cm/s b) 6.1cm/s c) 61cm/s d) 61m/s
185] Which one of the following equations is not a function of y with respect to x/ a) 2x+3y = 6 b) x <sup>2</sup> -y = 6x-5 c) x <sup>2</sup> + y <sup>2</sup> = 16 d) y = 4x <sup>3</sup> - 5x <sup>3</sup> + 3x - 7	194 Fringe spacing is a function of (young's double slit Exp)  a) Separation between slits b) Wavelength of light c) Distance between slits and screen d) All of the above
186] The inverse function for the following functions $f(x) = \frac{x}{x+1} \text{ is:}$ $a) \int_{-1}^{1} f(x) = \frac{x}{x+1}  b) \int_{-3}^{3} f(x) = xy + x$ $c) \int_{-3}^{3} f(x) = -x - 1  d) \int_{-1}^{1} f(x) = -\frac{x}{x+1}$ 187] There may be feasible solution of the feasible	195] Which one of the following properties is common between sound and light?  a) Nature of sound and light b) Polarization c) medium d) diffraction
187] Ther e may be feasible solution of the feasible region. a)infinite b)limited c) finitne d)defined	196 In isothermal process the internal energy of the system  a) Remains constant b) increases
188] In linear programing, objective function and objective constants are a)solved b)linear c)quadric d)adjecent	c) decreases d) none of the above 197, 197. An isolated charged point particle produced
189] If two charges experience a force of 10N when medium is air. If medium is change whose relative permittivity is 2 then force will be  a) 3N b) 5N c) 10N d) 0.2N	electric field with magnitude E at point 2m awa point m from the particle the magnitude of the field is a) 2E b) 4E c) E/2 d) E
190] The time rate of change of linear momentum is a) Force b) tension c) inertia d) impulse	c) E/2 d) E  198] Which one of the following has highest melting point?  a) NaCl b) MgCl <sub>2</sub> c)AlCl <sub>3</sub> d) SiCl <sub>4</sub> 199] The main product obtained when acetic acid rewith PCIS7 a) CH <sub>3</sub> COCl b) CCl <sub>3</sub> CHO c) CH <sub>3</sub> Cl d) CH <sub>3</sub> OH
191] A body moving in a circle of radius Im transverses an angle of 57.3%. The distance covered by the body along circle is  a) 1 m  b) 57.3m  c) mm  d) m/2m.	
192) The restoring force in the simple pendulum of mass m is a) mg cosθ b) mg sinθ c)mg tanθ d) mg	200 Hydrolysis of an ester in the presence of alkali is called  a) Esterification b) Transesterification c) saponification d) Decarboxylation
193] if temperature of medium increases by 1C then speed of sound will rise	callons



1.	В
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