NUST Past Paper – Engineering

Total Question: 200 Total Time: 3 Hrs



- a. A Natural number
- b. A Rational number
- c. An Irrational number
- d. Whole number
- 2) Every prime number is also
 - a. Rational
 - b. Even number
 - c. Irrational number
 - d. Multiple of two number
- 3) (a, b) + (-a, -b) =

d. (1,1)
4) If z = x-iy/x+iy then 2 is
a. 0

- b. 1
- c. -1
- d. None
- 5) Every recurring or every terminating decimal represents
 - a. An integer
 - b. A rational number
 - c. An irrational number
 - d. A prime number
- 6) What is the conjugate of -6-i?
 - a. -6+i
 - b. 6+i
 - -6-i
 - d. 6-i
- ww.illinkidumys.com 7) If $z1=\sqrt{-36}$, $z2=\sqrt{-25}$, $z3=\sqrt{-16}$ then what is sum of z1, z2 and z3?

 - b. 15i
 - c. -15i
 - d. -15

	/q,p,q ∈ Z ∧ q ≠ 0} is set of all
a.	Natural number
b.	Integers Irrational number Rational number
c.	Irrational number
d.	Rational number
	ive logic in which every statement is regarded as true or false and there is scop
	r fourth possibility is called
a.	Proposition
b.	Deduction
С.	Non- Aristotelian logic
	Aristotelian
	nction $\{x,y y=(1/2)x^2\}$ is
a.	Constant
b.	Onto
C.	One to one
d.	None of these
	nction f={(x,y) y =mx+c} is
a.	Quadratic function
	Constant function Cubic function Linear function
С.	Cubic function
d.	
	ment e ε A is said to be identity element with respect to a binary operation on λ
all e ε A	
a.	e x a = a x e = 0
	exa=axe0
C. ما	e x a = a x e =e
	exa = axe = a
	hool, there are 150 students. Out of these 80 students enrolled for mathematics of the constitution of the
	-
	any other class, but student of mathematics and physics can take two course ind the number of students who have taken both physics and mathematics.
a.	40
а. b.	30
D. C.	
d.	50 20
	adjust of the roots of the equation 0x3 EV 37-0
14) The pro	oduct of the roots of the equation 9X ² -5X-27±0
a.	5/27
D.	-5/9 -1/3/
c. d.	-3 -1√3√√ ~
u.	-5 Iltiplicative inverse of 4 is

- a. 1/4
- b. -1/4
- c. -4
- d. 1



- 16) If f(x)=3+x then
 - a. $f'(0) \neq f'(1)$
 - b. f'(0) = f'(1)
 - c. f'(0) > f'(1)
 - d. f'(0) < f'(1)
- 17) p, q, r and s are integers. If the A.M. of the roots of x^2 -px- q^2 =0 and G.M. of the root of x^2 + s²=0 are equal then

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- a. q is an odd integer
- b. r is an even integer
- c. p is an even integer
- d. s is an odd integer
- 18) X + 3/x = 4 is
 - a. A transcendental equation \
 - b. Cubic equation
 - c. An identity
 - d. An equation
- 19) For ¼, 2/5,1,---- 6th term is

 - a. -2 b. -2/7
 - c. 1/9
 - d. -5/6
- 20) In R the left cancellation property w.r.t addition is
 - a. $C + a = c + b \longrightarrow a = b$
 - b. $C + a = c + b \longrightarrow a = c$
 - c. $C + a = c + b \longrightarrow b = c$
 - d. $C + a = c + b \longrightarrow a=b=c$
- Kidunya.com 21) G.M between two number 4 and -81 is
 - a. 324
 - b. -324
 - c. -18
 - d. None
- 22) The common ratio of a geometric sequence cannot be
 - a. 3
 - b. 1



- - a. 02,0.5,0.6
 - b. 0.02, 0.05 0.06
 - c. 1.0, 2, 0.04
 - d. None
- 24) Geo metric sequence cannot contain

 - b. 1
 - c. ½
 - d. None of these
- nkidumya.com 25) The 5th term of the G.P. 3,6,12..... is
 - a. 15
 - b. 48
 - 2
- 26) If a, b, c, d are in H.P then ab + bc +cd is
 - a. 3ad
 - b. (a+b)(c+d)
 - c. 3ac
 - d. 3bd
- 27) The sum of the squares of three distinct real numbers, which are in G.P., is S2. If their sum is S
 - a. $1/3 <= \alpha^2 <= 3$
 - b. $1/3 < \alpha^2 < 1$
 - c. 1 <α<3
 - d. $1/3 < \alpha < 1$
- 28) An A.P., a G.P. and a H.P. have the same first and last terms and the same odd numbers of terms, the middle terms of the three series are in
 - a. A.P.
 - G.P.

 - d. None of these
- 29) Let Sn denote the sum of the first in terms of an A.P. if S2n = 3Sn, then S3n = Sn is equal to
 - a. 4
 - b. 6



30) $csc(-\alpha)$

-secia

-csc α

d. -csc α

- 31) The probability of getting 5, when one dice is called
 - a. ½
 - b. 1/3
 - c. 1/5
 - d. 1/6
- 32) Factorial of -2=
 - a. -362880
 - b. 362880
 - c. 40320
 - d. None
- 33) If A and B are mutually exclusive then p (AUB) =?

a.
$$P(A) + P(B)$$

- b. P(A) + P(B) P(A B)
- c. P(A) + P(B) P(AUB)
- d. P(A) + P(B) + P(AUB)
- 34) The slope of tangent to the curve $y=x^2-2x$ at P(1,1) is
 - a. 2
 - b. 0
 - c. -2
 - d. None
- kidumya.com 35) The solution set of the equation |3x + 2| = 5 is
 - a.
 - b. {1}
 - c. $\{-7/3\}$
 - d. {1, -7/3}
- 36) A machine operates if all of its three components function. The probability that the first component fails during the year is 0.14 the second component fails is 0.10, and the third component fails 0.05. The probability that the machine will fail during the year is

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- a. 0.2647
- b. 0.2692

c. 0.3647 d. None of these 37) Give two independent events A and B such that P (A) = 0.30 and P (B) = 0.60. probability of getting neither A nor B is a. 0.28 b. 0.13 c. 0.12 d. 0.42
38) Z Z =?
a. Z
b. Z ²
c. z
d. $ z ^2$
39) If nC2 =nC3, then the value of nC4 is a. 2
a. 2 b. 3
c. 5
d. 4
40) Six identical coins are arranged in a row. The number of ways in which the number of tails is
equal to the no.s of heads is
a. 20
b. 120
c. 9
d. 40
41) If n is not a natural number, then expansion of (1+x)3 is
a1 <x<1< td=""></x<1<>
b1 <x<=1< td=""></x<=1<>
c. 2 <x<2< td=""></x<2<>
d2<=x<=2
d2<=x<=2 42) Sum of odd coefficients in the binomial expansion is equal to a. 2n
b. 2n
c. 2n-1 d. 2(n-1)
43) If (3,5) is mid –point s of (5,a) and (b,7) then
a. a=1
b. b = 1

	c. a=-4 b= -3 d. a=3 b=1 = exist where n is a. n≠2
	= exist where n is
	a. n≠2
	b. n<2
	c. n=2V
	d. n>2
45) The	sum of odd coefficient in the expansion (1+x)4 is
	a. 4
	b. 8
	c. 12
	d. 14
46) The	3600 th part of the degree is called
	a. Degree
	b. Minute
	c. Second
	d. None
47) The	60th part of one minute is called one
	a. Minute
	b. Radian
	c. Degree
	d. Second
48) Mea	asure of the central angle of an arc of a circle whose length is equal to the radius of the
circl	e is known as
	a. 1 degree
	b. 1 radian
	c. 1 right angle
	d. 1 reflex angle
	rcular wire of radius 3cm is cut straightened and then bent so as (6) ie along the
	umference of a hoop of radius 24 cm, the measure of the angle subtended at the center of
	hope is
	a. 15 degree b. 30 degree
	c. 45 degree
	d. 60 degree
	500-sin 700+ sin100 is equal to
	and the second s

	-1 0
a.	-1
b.	
c.	
d.	2
51) The va	lue of the expression tan 10 tan20 tan 30 tan40 tha 870 tan88 tan890 is equal to
a.	000
b.	1
C.	2
d.	3
F2\ 400s ³ c	-3 cos α =?
32) 4cos α a.	$-3 \cos \alpha = r$ Sin3 α
a. b.	Tan3 α
C.	Cos 3 α
d.	Marray
53) Sin 12	a com
a.	
b.	3cos34a- 4cos4a 4cos34a-3cos4a
c.	3sin4a -4sin34a
d.	4sin4a 3\$\hat{3}\hat{3}\hat{4}a
54) Cos 2α	
a.	$\sin^2 \alpha + \cos^2 \alpha$
b.	-cos θ
c.	Tan Θ
d.	None of these
55) Sin(180	O ⁰ - Θ) =
a.	cos θ
b.	-Cos θ
c.	Tan θ
d.	sinθ
56) the po	ar form of complex number x≠1,y =
a.	rcosθ +risinθ
b.	rcosθ +risinθ rsinθ + rcosθ
c.	$r\sin\theta + r\cos\theta$
d.	ricosθ + rsinθ
57) sec(-36	00°)=
a.	9 /W 9 9
b.	1
c.	2

d. 58) Cos⁴⊖ - a. b. c. d.	
59) The rar	nge of cscx is
a.	[-1,1]
b.	R
c.	R-{x -1 <x<1}< th=""></x<1}<>
d.	None of these
CO) The ne	wind of coty/2 is
a.	riod of cotx/3 is π
а. b.	
C.	75 ((0))
d.	6π
	6π
, a.	Cos x from- 180 to 360 degree
b.	Sin x from -180 to 360 degree
c.	Tan x from-180 to 360 degree
d.	Cot x from-180 to 360 degree
62) Range	of cot θ is :
a.	+ive infinity to -ive infinity
b.	- 1 to 1
c.	-5 to 5
d.	Set of even numbers only
63) The fur	nctions sine and cosine have the closed interval as their range
a.	[1,0]
b.	[-1,1]
С.	[0,1] [-1,2]
d.	[-1,2]
64) If you a	are looking someone on the ground from the top a hill, the angle formed is the
a.	Angle of elevation
b.	Angle of depression
C.	Constant angle
d.	Right angle
	agle above horizontal line and the line of sight is an angle of
a.	Elevation

- ww.illunkjej.com b. Depression
- Altitude c.
- d. None

66) $R_3 =$





67) R =

a.
$$\frac{a}{2sin\gamma}$$

b.
$$\frac{a}{2\sin\beta}$$

C.
$$\frac{c}{2sin\gamma}$$

d.
$$\frac{a}{2\sin\alpha}$$

68) A tower subtends an angle α at a point on the same level as the root of the tower and at a second point, b meters above the first, the angle of depression of the foot of the tower is β . The height of the tower is

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- a. $b \cot \beta \tan \alpha$
- b. b tanα tan β
- c. b tanα cot β
- d. none

69) The horizontal distance between the two towers is 60m the angular elevation of the top of the taller tower as seen from the top of the shorter one is 30 degree. If height of the taller tower is 150 m. the height of the shorter one is

- a. 116m
- b. 200m
- c. 216m
- d. None

70) The longer side of parallelogram is 100m and shorter is 6cm. if the longer diagonal makes an angles 30° with the longer side, the length of the longer diagonal is

a.
$$5\sqrt{3} + \sqrt{11}$$

c.
$$5\sqrt{3} + \sqrt{13}$$

d.	None
71) If you a	re looking a high point from the ground, then the angle formed is
a.	Angle of elevation
b.	Angle of depression
c.	Right angle Wolfer
d.	Horizon
72) The val	ue of $\cos [\cos^{-1}(-\sqrt{3}/2) + \pi/6]$ is
a.	1
b.	-1
c.	0
d.	None
73) If cos -	1 p+cos-1 q + cos -1 $r=\pi$ then p2+q2+r2 +2pqr is equal to
a.	3
b.	1
C.	2
d.	-1
74) Tan-1 x	-1
a.	X>1
b.	X<1
c.	X=1
d.	All value of x
75) The nui	mber of triplets (x, y, z) satisfying $\sin -1x + \cos -1y + \sin -1z = 2\pi$, is
a.	0
b.	2
C.	1
d.	Infinite
76) The dir	ection cosines of y axis are
a.	1,0,0
b.	0,1,0
C.	0,0,1
d. 	1,1,1 ue of i^{4n+1} is
a.	
b.	-1
C.	i ² MANNOLUUS
d.	
	t vector in the positive direction of x axis is
a. h	vector i
b.	vector j vector k
c. d.	
u.	none

	position vector
a.	position vector Null vector Free vector
	Null vector
C.	Free vector
	None of these
a.) and $f_2(x)$ are any two anti-derivatives of a function $F(x)$, then the value of $f_1(x)-f_2(x)=$ A variable
а. b.	A constant
C.	Undefined
	Infinite
	ype of science is physics?
	Living things
	Nonliving things
C.	
	Study of action and reaction and experimental science
5.1	
82) The ma	ngnitude of the resultant of two forces is 2F. if the magnitude of each force is F, then the
angle b	between these forces is
a.	00
b.	900
с.	1200
d.	1809
83) If the r	measuring scale has a least count of 10kg then in 8000kg the significant figures are
a.	4
b.	1
c.	3
d.	0
84) Supple	mentary S.I units of radian and steradian were established to measure
a.	Geometrical quantities
b.	Luminous intensity
C.	Electric current
d.	Temperature
•	of magnetic flux is Weber meter ²
a.	Weber meter ² Weber Weber/meter
b.	weber
C.	Weber/meter
d.	Weber meter4
OC) Thomb	ySigal quantity which produces angular acceleration in the body is
ob) The ph	, only quantity which produces angular describing in the 2007 is

	Moment of inertia Impulse
C.	Impulse
	Torque a vector is multiplied by a scalar of positive value, the product of the quantity w
a.	Multiple of the vector quantity in same direction
b.	Multiple of the vector quantity in opposite direction
c.	Multiple of the vector quantity in perpendicular to the original vector
d.	None of these
	agnitude of the vector A,B and C are respectively 12,5 and 13 units and vector A
	ne angle between vector A and B is
a.	0
	π – /2
	π/2 π/4
	vector satisfy the relation vector A .B =0 and A.C= 0 then A is parallel to
a.	
b.	
c.	c C Annows.com
d.	B
90) No Wo	ork Is done by the body when angle between forces and displacement is
a.	00
b.	450
C.	90°00
d.	acceleration due to gravity at the earth's surface I s 9.8m/s² and the mass of the e
	es that of the moon and radius of earth 4 times that moon, the value of g at the
	s surface will be
	9.8m/s ²
b.	1.96 m/s ²
c.	4.9m/s ²
d.	None
	rticle of mass 'm' at rest is acted upon by a force 'p' for a time't'. its kinetic energ
	erval 't' is
	P ² t ² /2m P ² t ² /3m P t/2m
	P ² t ² /2m P ² t ² /3m
	P t/2m
	of product of force and velocity is equal to
a.	Power Power
b.	Impulse
	Couple

- d. Momentum
- 94) If a force acts on a body whose action line does not pass through its centre of gravity, then the body will experience
 - a. Angular acceleration
 - b. Linear acceleration
 - c. No acceleration
 - d. None of these
- 95) In which case application of angular velocity is useful?
 - a. When a body is rotating
 - b. When velocity of body is in a straight line
 - c. When velocity is in a straight line
 - d. None of these
- 96) Center of mass is a point
 - a. Which is geometric center of a body
 - b. From which distance of particles are same
 - c. Where the whole mass of the body is supposed to be cantered
 - d. Which is origin of reference frame
- 97) Angular momentum has the same unit as
 - a. Impulse x distance
 - b. Linear momentum x time
 - c. Work x frequency
 - d. Power x time
- 98) The flow is said to streamline or laminar when every particle
 - a. Moves in different direction
 - b. Moves along the same path as
 - c. Slowly moves in one direction
 - d. None of these
- 99) The pressure will be low where the speed of the fluid is
 - a. 0
 - b. high
 - c. low
 - d. constant
- 100) A two meter high tank is full of water. A hote is made in the middle of tank .The speed of efflux is

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- a. 4.9m/s
- b. 9.8m/s¹
- c. 4.42 m/s¹
- d. 3.75 m/s¹

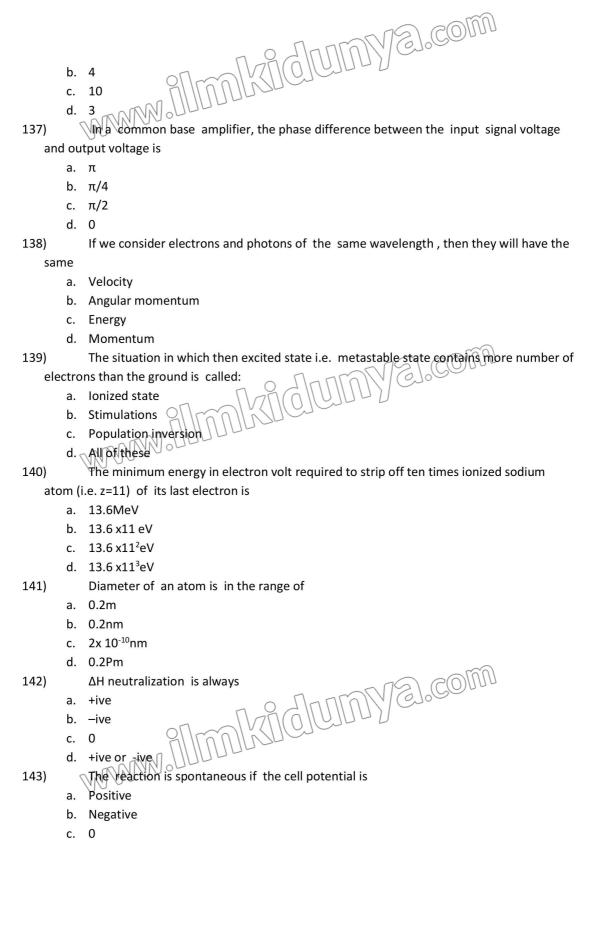
101)		In case of a vibrating pendulum, the potential energy is maximum at
	a. b.	Mean position
	D. С.	Extreme position Both a and b
	d.	None None
102)	۵.	Specific response of as system which is able to oscillate with a certain period, to an
	erna	al force acting with the same period is called
	a.	TIME period
	b.	Wavelength
	c.	Resonance
	d.	Dopplar effects
103)		A simple harmonic oscillator has period of 0.01 second and amplitude of 0.2m. the
ma	gnit	ude of the velocity in m/s at the center of oscillation is
	a.	100
	b.	100 π
	c.	20 π
	d.	40 π
		- O ALUMNIE COMU
104)		A spherical wave front is that which has
10.7	a.	A source
	b.\	A point source
	c.	An extended source
	d.	None of these
105)		We can hear sound around the corner but cannot see because of
	a.	Interference
	b.	Diffraction
	c.	Polarization
	d.	2.550.5.6.1
106)		Huygens's wave theory of light cannot explain
	a.	Diffraction
	b.	Interference
	С.	Polarization
107\	d.	Photoelectric effect The tip of a needle does not give a sharp image. It is due to Polarization
107)	_	Polarization
	a. b.	Interference
	υ. C.	Diffraction
	d.	Rone O
		Agree .

E.COM sun has elliptical shape when it rises and sets due to 108) Refraction Reflection C. Scattering Dispersion 109) Number of electric lines of force passing through a certain area is knownas a. Electric field b. Electric flux c. Electric intensity d. Gravitational field 110) When a ray of light enters a glass slab from air a. Its wavelength night increases b. Neither Its wavelength nor its frequency changes c. its frequency increases d. Its wavelength decreases 111) Which of the following statements is correct for any thermodynamic system? a. The internal energy changes in all processes J.COM b. Internal energy and entropy are state functions c. The change in entropy can never be Q d. The work done in an adiabatic process is always 0 112) Kelvin scale can be applied ar very low temperature because all It is independent of nature of working substance b. It is linear over a wide range of temperature c. It is based on triple point of water d. None 113) Two metal rods A and have their initial length in the ratio 2:3 and coefficients of linear expansion in the ratio of 4:3. When they are heated through same temperature difference the ratio of their linear expansion is a. 1:2 b. 2:3 3:4 C. d. 8:9 114) Melting point of ice is NE).com a. Increases with increasing pressure b. Decreases with increasing pressure Is independent of pressure d. Is proportional to pressure MWW.]]

115)	Two metallic wires are lying parallel. If the current In these wires be flowing in same	
direction, the wires will:		
a.	on, the wires will: Attract each other	
b.		
c.	Have no force of attraction or repulsion	
d.	Remain stationary	
116)	On moving a charge of 20 coulombs by 2 cm, 2J of work is done then the potential	
differe	ence between the points is	
a.	0.1v	
b.	8v	
c.	2v	
d.	0.5v	
117)	In a millikan's oil drop experiment the charge on an oil drop is calculated to be $6.35 \times 10^{-}$	
¹⁹ C. th	e number of excess electrons on the drop is	
a.	3.9	
b.	4	
c.	4.2	
d.		
118)	A charge Q is divided into two parts q and Q-q and separated by a distance R.The	
force	of repulsion between them will be maximum when:	
a.	q = Q/4	
b.	q = 0.2	
c.	q = Q	
d.	none	
119)	The color coded resistances are made by	
a.	High grade silver rods	
b.	High grade ceramic rods	
c.	High grade copper rods	
d.	High grade iron rods	
120)	A wire of radius r has resistances R.if it is stretched to a wire of r/2 radius, then the	
resistance becomes		
a.	2R	
b.	4R STEEN STEEN	
c.	16R	
d.	A wire of radius r has resistances R.if it is stretched to a wire of ry2 radius, then the ince becomes 2R 4R 16R Zero	
121)	A uniform resistance wire of length L and diameter d has a resistance R.Another wire of	
same material has length, 4L and diameter 2d, the resistance will be		
a.	2R	

	b.	R R/2
	c.	R/2
	d.	R/4
122)		In RLC series circuit when the frequency of AC source is very low the circuit is a /an
	a.	Resistive circuit
	b.	Capacitive circuit
	c.	Inductive circuit
	d.	Resonant circuit
123)		An electron of charge e coulomb passes through a potential difference of V volts. Its
ene	ergy	in 'joules' will be
	a.	V/e
		eV
	c.	e/V
	d.	V
124)		The resistance of voltmeter must have very high resistance because
	a.	It does not draw any current
	b.	It is very accurate
	c.	It does not change circuit current considerably
	d.	None of these
125)		The voltage that is applied across the X plates is usually provided by a circuit that is built
in t	he (CRO. It is known as
	a.	Time base generator
	b.	Electric base generator
	c.	X supplier
	d.	Power supply
126)		A voltmeter has resistance of 2000 ohms and it can measure up to 2V. if we want to
inc	reas	e its range to 10V then required resistance in series will be
	a.	2000 Ώ
	b.	4000 Ώ
	c.	6000 Ώ
	d.	δ' 0008
127)		In A.C. through capacitor circuit the v and q are as
	a.	V leads q
	b.	V legs q V and q are in phase
	c.	V and q are in phase
	d.	None of these
128)		At resonance, the phase angle for RLC series resonance circuit equals
	a.	00
	b.	904 100 0
	С.	1800
	d.	270°

		An inductor coil when consume no energy is called a common consumer of the con
129)		An inductor coil when consume no energy is called
,	a.	A coil
	b.	Choke
	c.	Toroid
	d.	None
130)		The color of light by light emitting diode depends upon:
	a.	Forward voltage
	b.	Reverse current
	c.	Forward current
	d.	Type of semiconductor
131)		Which one of the following physical quantities does not have the dimensions of force
pe	r un	it area
	a.	Stress
	b.	Strain
	c.	Young's modulus
	d.	Pressure
132)		The bulk properties of materials such as their mode of fracture can be related to their
	a.	Polymerization Office of the Polymerization
	b.	Cleavage
	c.	Microstructure
	d.	Dislocation
133)		The bonding in an inert gas crystal is due to
	a.	Metallic binding
	b.	Covalent bonding
	c.	Ionic binding
	d.	Vander waals binding
134)		A certain transistor has collector current of 10 mA and a base current of 40uA. What is
the	e cui	rrent gain of the transistor?
	a.	150
	b.	250
	c.	
	d.	
135)		In a full wave rectifier with input frequency 50 Hz the ripple in the output is mainly of
the	e fre	quency (in Hz).
	a.	25
	b.	50
	c.	100
	d.	None
136)		If an atom exists in the excited state n=5, the maximum number of transition takes
pla	ice i	
	a.	b



	d.	Infinite
144)		Mechanical work is especially important in systems that contain
	a.	Solid-liquid
	b.	Liquid-liquid
	c.	Solid –solid
	d.	Gases
145)		Which one has same number of electrons protons and neutrons?
	a.	N₂ and CO
	b.	H ₂ and O ₂
	c.	N ₂ and CO ₂
	d.	H ₂ O and H ₂ S
146)		Which of the following is not correct?
	a.	Dissolution of NH ₄ Cl in excess of water is an endo thermic process
	b.	Neutralization is always exothermic
	c.	The absolute value of enthalpy (H) can be determined experimentally.
	d.	The heat of reaction at constant volume is denoted by ΔE .
147)		Which of the following aqueous solution will be basic?
	a.	NaCl
	b.	Na ₂ S O ₄
	c.	Na ₂ CO ₃
	d.	FeCl ₃
148)		A start of reaction, concentration of reactants are on
	a.	Higher side
	b.	Lower side
	c.	Optimum side
	d.	Constant
149)		Idea of PH and POH was put forward by
	a.	Gibbs
	b.	Einstein
	c.	Sorenson
	d.	Chadwick
150)		The relative atomic mass of chlorine is 35.5. what is the mass of 2 moles of chlorine gas
	a.	142g
	b.	35.5g
	c.	71g
	d.	18.75g
151)		Which of the following factors will favor the reverse reaction in a chemical
equ	diliu	rium

a. Increase in concentration of one of the reactantsb. Increase in concentration of one of the products

c. Removal of one of the products regularly

d. None of these

152) Hydrogen gas and iodine vapors combine to form HI at 425 degree centigrade. The same composition of mixture is present if we start with decomposition of HI. It suggests

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a. Law of mass action

- b. A static equilibrium
- c. Irreversible reaction
- d. A dynamic equilibrium
- 153) Rate expression fo NH₃ synthesis is

a. $Kc = X^2/(a-x)(b-x)$

- b. $Kc = X^2/v(a-x)$
- c. $Kc = 4X^2/v(a-x)$
- d. $Kc = 4X^2v^2/(a-x)(b-3x)^3$
- 154) Agcl dissolved with concentration (Z x 10⁻²)ksp will be
 - a. 3.6 x 10⁻⁶
 - b. 3.6 x10⁻⁵
 - c. 7.2 x 10⁻⁶
 - d. None
- 155) Isotopes differ in the
 - a. Number of atoms
 - b. Number of neutron
 - c. Number of protons
 - d. Number of electrons
- 156) Which of the following will not change the concentration of ammonia in the equilibrium?

$$N_2(g) + 3H_2$$
 \longrightarrow 2 NH₃

ΔH=-xkj

- a) Increase of pressure
- b) Increase of temperature
- c) Decrease of volume
- d) Addition of catalyst
- 157) According to le chatelier's principal, adding the heat to a solid and liquid in equilibrium will cause the

	a	
	b	. Amount of liquid to decrease
	С	remperature to rise
	d	. Temperature to fall
158)		In a reaction
		A+B C+D
•	The i	nitial concentrations of A and B were 0.9 mol/dm³ each. At equilibrium the concentration
	of D v	was found to be 0.6 mol/dm ³ . What is the value of equilibrium constant for the reaction?
;	a. 8	3
1	b. 9	
	c. 4	
	d. 3	
(159		One mole of compound AB reacts with one mole of a compound CD according to the
		tion AB (g) +CD (g) \longrightarrow AD (g) +CB (g). When equilibrium had been established it was
		I that ¾ mole each of reactants AB and CD had been converted to AD and CB. There is no;
,	chan	ge in volume .The equilibrium constant for the reaction is
	а	
	b	
	С	16/9
	d	
160)		For most of the chemical reactions the rate of reaction
	а	. Increases as the reaction proceeds
	b	
	С	
	d	
	u	. Herianis constant as the reaction proceeds
161)		The rate of reaction A+B \longrightarrow products the given by equation r=K[A][B] if
1	the B	is taken in large excess, the order of the reaction would be
	а	. 2
	b	. 1
	С	. Unpredictable
	d	. Unpredictable
162)		The Weight of 11.2 litres of co2 at S.T.P. would be
102)		
	a L	
	b	
	c	190
	d	. 22g

163)		With increase in 10degree centigrade the rate of reaction doubles. This increase in rate				
•	read	eaction is due to				
	a.	Decrease in activation energy of reaction				
	b.	Decrease in the number collisions between reactant molecules				
		Increase in activation energy of reactants				
		Increase in number of effective collisions				
164)		The time taken for 90% of a 1st order reaction to complete is approximately				
	a.	1.1 times that of half life				
	b.	2.2 times that of half life				
	c.	3.3 times that of half life				
	d.	4.4 times that of half life				
165)		The volume occupied by 1.4g of N₂ at S.T.P is				
	a.	2.24 dm ³				
	b.	22.4 dm ³				
	c.	1.12 dm ³				
	d.	112 cm ³				
166)		A reaction involving two different reactants can never be				
	a.	Uni-molecular reaction				
	b.	First order reaction Second order reaction				
	c.	Second order reaction				
	d.	Bimolecular reaction				
167)		According to law of mass action rate of a chemical reaction is proportional to				
	a.	Concentration of reactants				
	b.	Molar concentration of reactant				
	c.	Concentration of products				
	d.	Molar concentrations of products				
168)		Equal volumes of 0.1M AgNo ₃ and 0.2 M NaCl are mixed.the concentration of NO ₃ ions				
in 1		nixture will be				
	a.	0.1M				
	b.	0.05M				
	c.	0.05M 0.2M 0.15M				
1.60\	d.					
169)	CO	The set of numerical coefficients that balances the chemical equation				
K ₂		+HCI -> K2Cr2Ov+KCI+H2O				
	a.	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1				
	b.	∠,≝,⊥,⊥,⊥ Э.1.1.2.1				
	c.	2,1,1,2,1				

170)	a. b. c. < d.	2,2,1,2,1 The Van't Hoff factor (i) accounts for Degree of solubilisation of solute The extent of dissolution of solute The extent of dissociation of solute The degree of decomposition of solution in the blanks with appropriate word /phrase (1-5)
171)	.	According to Dr. Daniel , when the companions of the king, saw the king after he had
rise		om the ground, they said, and we'll fight again It is him
	a.	
	b.	It is he
	c.	It is his
172)	d.	It is himself
•	+ho	When the machines are not lubricated, decreases the speed, putting more load lifts.
OII	a.	~~~
	a. b.	Then Than
	о. С.	So
	d.	It en
173)	u.	When the chairman became ;very ill his wife began to take more active role in business
	ivitie	and many people belived that and the chairman shared his responsibilities.
	a.	Her
	b.	She
	c.	Herself
	d.	Hers
174)		Although most species of cat are black in color, is often pure white.
	a.	The Iranian cat
	b.	Nevertheless the Iranian cat
	c.	That the Iranian cat
	d.	But the Iranian cat
175)		, regarded as the world's oldest continuously in habited city, is the main city of
Pur	njab.	
	a.	The Multan
	b. <	Multan being
	c.	Multan

d. That Multan

IWAS COM Read the paragraph carefully and give answer below

The history of literature really began was earliest of the arts. Man danced for joy round his primitive camp fire after the defeat and slaughter of his enemy. He yelled and shouted as he danced and gradually the yells and shouts become coherent and caught the measure of the coherent and caught the measure of the dance and thus the first war song was sung. As the idea of God developed prayers were framed. The songs and prayers became traditional and were repeated from one generation to another generation, each generation adding something of its own.

As man slowly grew more civilized, he was compelled to invent some method of writing by three urgent necessities. There were certain things that it was dangerous to forget and which, therefore, had to be recorded. It was often necessary to protect one's property by making tools, cattle and so on, in some distinctive manner. So man taught himself to write and having learned to write purely for utilitarian reasons he used this new method for preserving his war songs and his prayers. Of course, among these ancient peoples, there were only a very few individuals who learned to write, and only a few could read what was written

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176) Before man invented writing

- a. Literature was passed on by word of month
- b. Prayers were considered literature
- c. Literature was just singing and dancing
- d. There was no literature
- 177) As for the war songs and prayers each generation
 - a. Added something of its own to the stock
 - b. Blindly; repeated the songs and prayers
 - c. Composed its own songs and prayers
 - d. Repeated what has handed down to it
- 178) The first war song
 - a. Was inspired by God
 - b. Developed spontaneously
 - c. Was a song traditionally handed down
 - d. Was composed by leading dancers
- 179) The war song evolved out of
 - a. Creative inspiration
 - b. There was no literature
 - c. Artistic urge
 - d. Yelling and shouting
- 180) Man invented writing because he wanted
 - a. To be artistic
 - b. To write war song
 - To write literature

Jidumya.com d. To record and communicate 181) Iron: blacksmith (analogy) a. Cotton: cloth b. Food:gourmet Clay:potter d. Silver miner 182) Fish: scales (analogy) a. Book: papers b. Snakes: fangs Birds: feather d. Car: wheels 183) Nose: smell (analogy) a. Tongue: speak b. Foot: hit c. Hand: finger d. Teeth: chew Jidumya.com 184) Collage: images (analogy) a. Cement: building b. Medley: songs furniture : sofa d. Grains: tree 185) Sketch: artist (analogy) Secret : confident b. Cell: prisoner c. Palette: painter d. Draft:writer 186) Fragile: (synonyms) a. Strong b. Grave Weak c. Showy d. mkidumya.com 187) Esoteric: (synonyms) Fair a. **Popular** Alluring Private Synchronized: (antonym) 188)

a. Arrhythmic



- a. Immersive
- b. Orderly
- c. Hectic

189)

- d. Steady
- 190) Bombastic: (antonym)
 - a. Creative
 - b. Selfish
 - c. Astounded
 - d. Polite
- 191) The current president of European union belong to which country
 - a. Greece
 - b. Austria
 - c. Germany
 - d. Latavia
- 192) When did nuclear scientist Dr. Abdul Qadeer Khan dissolve his political party tehreek-itahafuz-i- Pakistan?
 - a. 27 jan, 2014
 - b. 18 jan, 2014
 - c. 1 jan, 2014
 - d. 10 jan, 2014
- 193) Who visited Pakistan and agreed to enhance their defense cooperation and support each other's position on regional issues, including Syria and Afghanistan?
 - a. Saudi foreign minister
 - b. American foreign minister
 - c. German foreign minister
 - mnkidumyz.com d. French foreign minister

194) The international day of peace sometime unofficially known as world peace day, is observed annually on:

- a. 21st September
- b. 23rd September
- c. 12th October
- d. None of these

195) International day for the elimination of violence against racial discrimination is observed annually on:

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- a. 23rd may
- b. 21st march
- c. 1st march
- d. None of these
- 196) The 'KASHAF-UL-MAHJUB' was written by?
 - a. HAZRAT DATA GUNJ BUKSH(R.A)
 - b. Maulana Altaf Hussain Hali
 - c. Maulana Shibli Nomani
 - d. Maulana Zakaullah
- 197) Which are five international languages of the world that has been classified as the classical languages?
 - a. Chinese, Sanskrit, Arabic, Russian, and Latin
 - b. Chinese, French, English, Greek, and Latin
 - c. Chinese, Sanskrit, Arabic, Greek, and Latin
 - d. None of these
- In which nuclear plant of japan did the radioactive water leak of 100 tones took place? 198)
 - a. Ikata nuclear power plant
 - b. Kashiwazaki ,karima nuclear power plant
 - c. Fukushima nuclear power plant
 - d. Namaoka nuclear power plant
- 199) The book titled "the Meaning of success: Insight from women" has been released by which world famous university to address the decline of women professors in the university?
 - a. Oxford university
 - b. London school of economics
 - c. Cambridge university
 - d. Harvard university
- Which player of England is only bats man to achieve the rare feat? He made 333 and 200) 123 against India at lord's in 1990?
 - a. Graham Gooch
 - www.illmikidlumye.com b. Ricky pointing
 - c. Mathew
 - d. Gilchrest