## NUST Past Paper Engineering

Total Question: 200

Total Time: 3 Hrs

1.	If $V = [2,1,3]$	and $W = [-1,4,0]$ then $[V-2W] =$
	[-/-/9]	[2/1.2/1.4/1 [7 22 1.) c. ] c c [ ]

- b.  $\sqrt{74}$
- c. √89
- d. 0

2. The projection of a = i-2j + k along b = 4i - 4j + 7k is

- a. 19/8
- b. 9/19
- c. 8/19
- d. 19/9
- 3. 0 is a
  - a. A Rational number
  - b. An Irrational number
  - c. Whole number
  - d. A positive integer

Adlumys.com 4. If u =-1 +2j +4k and v=2/Fj+ 4k are two adjacent sides of a parallelogram then area of parallelogram is

- b.  $\sqrt{279}$
- c.  $\sqrt{297}$
- d. 0

5. The value of 3i(k + i) =

- a. 3
- b. 4
- c. 6
- d. 0

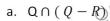
6. If z = (1, 2), then 1/z = ?

- a. 0.2,0.4

- www.illmikidlumye.com

- 7. a vector of magnitude 5 and perpendicular to a = I + 3j -k and b=3j (is)

  a.  $\frac{5}{-(-i-3i-10k)}$ 
  - a.  $\frac{5}{\sqrt{110}}(-i-3j-10k)$
- 8. The area enclosed by the triangle ABC whose vertices are A(1,2,-3) B(0,0,0) and C(2,7,4) is
  - a.  $\sqrt{676}$
  - b.  $\sqrt{845}/2$
  - c.  $\sqrt{184}$
  - d. 27
- 9. [k-1, i-j, j-k] =
  - a. 1
  - b. -1
  - c. 1/2
  - d. 0
- 10. It Q, R. are any sets, then Q R =



- b.  $Q-(Q \cup R)$

$$Q \cup (Q - R)$$

- 11. The equation |x + 4| = x has solution
  - a. X = -2
  - b. X = 2
  - c. X = -4
  - d. X = 4
- 12. Geometrically, the modulus of a complex number represents its distance from the
  - a. Point (1,0)
  - b. Point (0, 1)
  - c. Point (1, 1)
  - d. Point (0,0)
- 13. Associative law of multiplication

  - .. a(a+b) = ab+bc
    d. (a+b)c = ac+bc

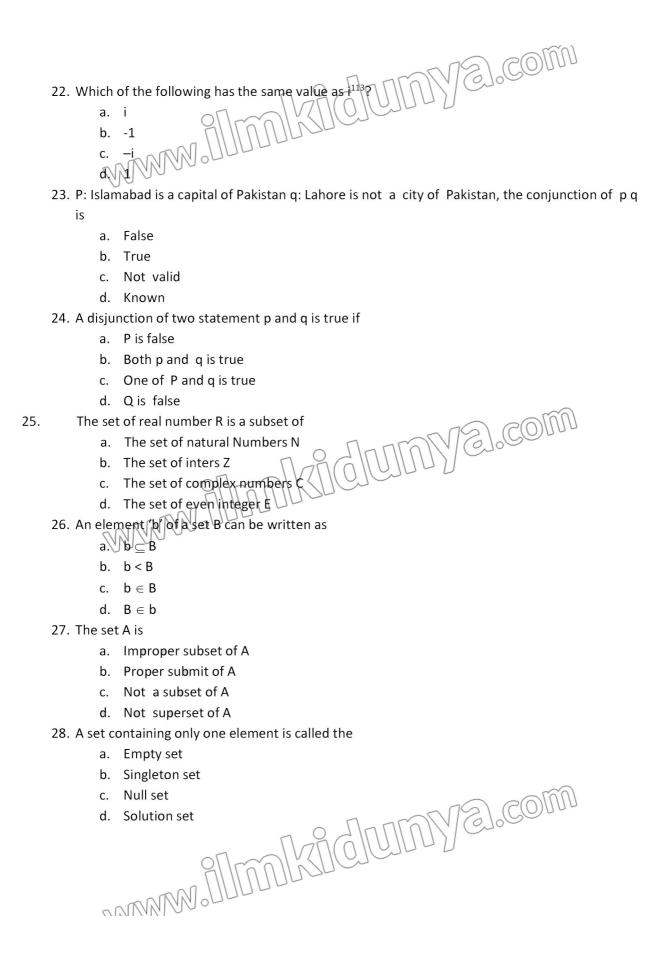
- 14. a.a-1 = a-1.a =1 is a
  - a. Commutative law of multiplication
  - b. Multiplicative identity
  - c. Associative law of multiplication
  - d. Multiplicative inverse
- 15. (a +bi) ( (a +bi)
  - a. (a + b) = (c + d)
  - b. (a + c) + i(b + d)
  - c. (a c) + i(c d)
  - d. (a-c)+i(b-d)
- 16. (a, b) + (-a, b) =
  - a. (0,0)
  - b. (a,b)
  - c. (-a,-b)
  - d. (1,1)
- 17. (a, 0) x(c, 0) =
  - a. (0,ac)
  - b. (ac,0)
  - c. (0,0)
  - d. (a,c)
- 18. (7,9)+(3,-5)=
  - a. (4,4)
  - b. (10,A)

  - d. (7,3)
- 19. If z1 = 2 + 6i and z2 = 3 + 7i, then which expression defines the products of z1 and z2?

Almikidumya.com

UMN/E).com

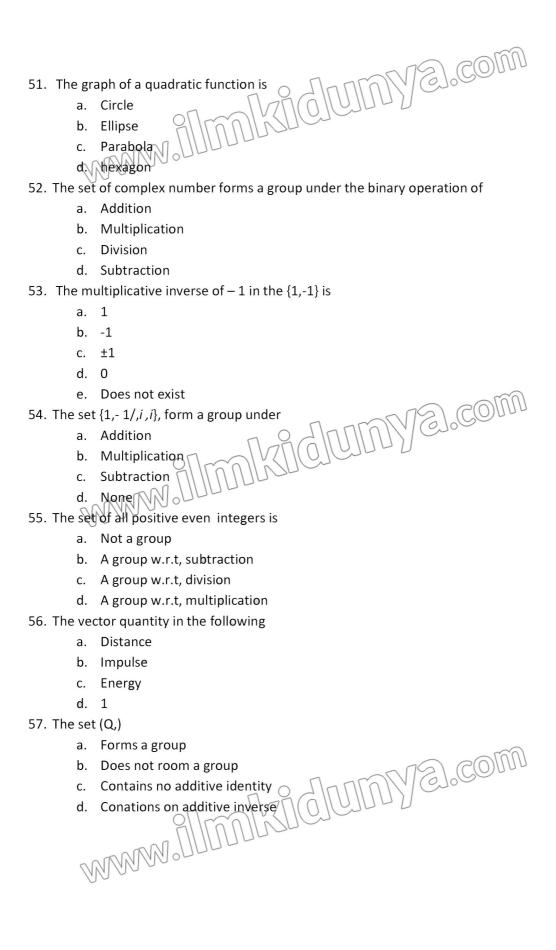
- a. 36 + (-32)i
- b. -36 + 32i
- c. 6 + (-11)i
- d. 0, + (-12)i
- 20. Which element is the additive inverse of (a, b) in complex numbers?
  - a. (a,0)
  - b. (0,b)
  - c. (a,b)
  - d. (-a,-b)
- 21. The set (Z, t) forms a group
  - a. Forms a group w.r.t addition
  - b. Non commutative group w.n.t multiplication
  - c. Forms a group w.r.t multiplication
  - d. Does not form group



29. To each	element of a group there correspond how many inverse element
a.	Only one
b.	At least one
C.	More than one
d	TWO OLUMBER
30. The set	of students of your class is
a.	Infinite set
b.	Finite set
c.	Empty set
d.	Null set
31. To drav	general conclusions from accepted or well-known facts is called:
a.	Induction
b.	Proposition
С.	Deduction
d.	Aristotelian logic
32. The tru	th value of the proportion is a positive number or 2+2 = 4 is
a.	True
b.	False COM
C.	Contingency
d.	None all the second sec
33. The dra	w general conclusions from a limited number of observation or experiences is called
Man	Proposition
b.	Deduction
C.	Induction
d.	Knowledge
34. A decla	rative statement which may be3 true or false but not both is called
a.	Proposition
b.	Deduction
С.	Induction
d.	Knowledge
	of the following is not mooned w.r.t addition?
a.	Z
b.	N SCOOL
C.	W R O STATION S. COM
d.	
	TIVE LOGIC IN WHICH EVERY STATEMENT IS REGARDED AS TRUE OR FALSE AND THEI
	FOR A THIRD OR FOURTH POSSIBILITY IS CALLED
a.	PROPOSITION
M. 6.1.	DEDUCTION NON Asistant line lands
C.	NON Aristotelian logic
d.	Aristotelian logic

37. A dis	unction of two statements p and q is true if
а	iunction of two statements p and q is true if  P IS FALSE  Both p and g are false  P S S S S S S S S S S S S S S S S S S
b	
C	21101110
C	
	dentity element of N, w.r.t addition is
a	
b	
C	
20. TI	
	et of the first element of the ordered pairs forming a relation is called ots:
a	
b	
C	
-	. Relation in B bset of B x A is called a
40. A su	Deletion of A to D
b	
C	Relation in A
	Relation in B
	$-150(\pi/2) = ?$
71. 005 [	
ŀ	
C	
	l. ∞
42. 45 <sup>0</sup> =	?
â	. $3\pi/2$ radians
k	$2\pi/3$ radians
c	. π/4
	$1.00\pi$ radians
43. A circ	cular wire of radius 3cm us cut straightened and then bent so as to lie along the
circu	mference of a hoon of radius 24cm the measure of the angle substended at the center of
the h	ope is
а	. 15°
b	. 30°
C	. 450
C	. 60° A/MA
	a marky ollilli
	ope is . 15° . 30° . 45° . 60°

44. The area of a sector with a central angle of 0.5 radians in a circular region whose radius is 2m is
a. $\pi/2 \text{ m}^2$
b. $\pi/3 \text{ m}^2$
c. π/6 m² d. 1m²
d. 1m <sup>2</sup>
45. The multiplicative inverse of 1 in the set {-1,1}is:
a. 1
MANNO OF THE PARTY
c. ±1
d. 0
46. The values of cos 20+ sec 20 is always
a. Less than 1
b. Equal to 1
c. Greater then 1,but less than 2
d. Greater than or equal to 2.
47. The maximum value of $\sin x + \cos x$ is
a. 1
b. 2 c. √2
- 11 -3/6 111111111
d. $1/\sqrt{2}$
48. In a school, there are 150 students. Out of these 80 students enrolled for mathematics class, 50
enrolled for English class, and 60 enrolled for physics class. The student enrolled for English
cannot attend any other class, but the students of mathematics and physics can take two
courses at a time. Find the number of students who have taken both physics and mathematics.
a. 40
b. 30
c. 50
d. 20
49. The set { {a, b } } is
a. Infinite set
b. Singleton set
c. Two points set
d. None
d. None  50. Sin 500- sin700 + sin100 is equal to  a. 1  b. 2
D. Z
b. 2 G. 2.
u. 2.



58.	The se	t (Z, + ) forms a group
	a.	Forms a group w.r.t addition
	b.	Non commutative group w.r.t multiplication
	c.	Forms a group w.r.t Multiplication
	d.	Doesn't form a group
59.	Total n	umber of subsets that can be formed out of the set{a, b, c}is
	a.	1
	b.	4
	c.	8
	d.	12
60.	Additiv	ve inverse of – a- b is
	a.	A
	b.	-a+ b
	c.	A-b
	d.	A+ b
61.	If $x = 1$	/x for $x \in R$ then the respect to subtraction is
	a.	0
	b.	1
	c.	2
	d.	
62.	The id	entity element with respect to subtraction is
	a.	0
	b.	1
		±1
		Does not exist
63.		licative inverse of 0 is
	a.	0
	b.	1
		±1
		Does not exist
64.	Decima	al part of irrational number is
	a.	Terminating
	b.	Repeating only
	C.	Neither repeating nor terminating
		Repeating and terminating
65. ·	The tri	gonometric ratio change into co- ratio and vice versa if $^{m{\phi}}$ is added to or subtracted from
	a.	Even – multiple of right angle
	b.	Odd of $\pi/2$ multiple
	C.	Both a and b
	d.	None of these

66. In a country, 55% of the male population has houses in cities while 30% have houses both in
cities and in villages. Find the percentage of the population that has fouses only in villages,
a. 45
b. 30
c. 25
d. 50
67. If a function f. A → B is such that fan f=B then f is a/an?
a. Into function
b. Onto function
c. Bi-jective function
d. one – one function
68. the set of the first elements of the orders pairs forming a relation is called its
a. relation in B
b. range
c. Domain
d. Relation in A
69. A function in which the second elements of the order pairs are distinct is called
a. Onto function
b. One-one function
c. Identity function
d. Inverse function
70. A function whose range is just one element is called
a. One – one function
b. Constant Function
Onto function
d. Identity function
71. The graph of a quadratic function is
a. Circle
b. Straight line
c. Parabola
d. Triangle
72. To each element of a group there correspondsinverse element
a. Two
b. One
c. No
d. Three
The set of integer is
a. Finite group b. A group w.r.t addition
b. A group w.r.t addition
c. A group wirt multiplication
d. Not a group \\ \( \) \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\
WINNER OTTER
UNIVIO 2

73.

74. The set of complex number forms			
a.	Commutative group w.r.t addition  Commutative group w.r.t multiplication		
b.	Commutative group w.r.t multiplication		
C.	Commutative group w.r.t division		
d.	Non commutative group with addition		
75. The set	t R is w.r.t subtraction Wot a group		
b.	A group		
C.	No conclusion drawn		
d.	Non commutative group		
76. Power	set of x I.e. p(x)under the binary operation of union U		
a.	Forms a group		
b.	Does not form a group		
C.	Has no identity element		
d.	Infinite set although x is infinite		
77. Any po	int, where f is neither increasing nor decreasing and $f''(x) = 0$ at that point, is called a		
a.	Minimum		
b.	Maximum		
C.	Stationary point  Stationary point		
d.	Constant point		
78. If A={1,	2,3,4,5,6} and gives relation {(1,1),(2,2),(3,3),(4,4),(5,5),(6,6)} is called:		
a.	Binary relation		
b.1	Inverse relation		
/\c.\	Range at a relation		
d.	Identity relation		
79. The tra	inspose of a row matrix is a		
a.	Column matrix		
b.	Diagonal matrix		
C.	Zero matrix		
d.	Scalar matrix		
80. Which	of the following is unary operation:		
a.	Square root		
b.	Union of sets		
C.	Addition		
d.	Multiplication		
81. Mass	defect of an atom refers to		
a.	maccurate measurement or mass of muleons		
b.	Mass annihilated to produce energy to bind the nucleus		
C.	Packing fraction		
d.	Difference in number of neutron and protons in the nucleus		

82.	In alter	nating current the average value of current in cycle is
	a.	
	b.	Constant
	C.	+ixe \ \\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\
	Md.	Max
83.	Radioa	ctivity is purely a nuclear phenomenon , and is not affected by
	a.	Physical or chemical reaction
	b.	Temperature
	C.	
		All
84.	A radio	pactive reaction $_{92}$ U <sup>238</sup> $ ightarrow$ $_{82}$ Pb <sup>206</sup> . How many $lpha$ and $eta$ particles are emitted?
	a.	$10\alpha$ and $6\beta$
	b.	4 proton and 8 neutrons
	C.	
		$8\alpha$ and $6\beta$
85.	The tin	ne taken by the entire electron pulse to reach anode n Geiger Muller tube is
	a.	
		Less than 1µs
	С.	More than 1 \( \alpha \)
0.0	200	None of these
86.		Muller counter can be used to determine the
	a.	Range of ionizing particle
		Mass of ionizing particle
	C. ما	Charge of ionizing particle
07	d.	None
87.		clear reaction, which of the following is conserved?
	a. h	Atomic number only  Mass number only
		·
	C.	Atomic number , mass number and energy
00		Energy only If-life (T) and the disintegration constant ( $\lambda$ ) of a radioactive substance are related as
00.		$\lambda T = 1$ $\lambda T = 0.693$ $\lambda T = 0.693$
		λT = 0.693
		T/λ -0.693
	с.	λ/T =0.693
	u.	
	M	$T/\lambda = 0.693$ $\lambda/T = 0.693$
	00	

- 89. Which of the following is true?
  - a. Lyman series is a continuous spectrum
  - b. Ballmer series is a line spectrum in the ultraviolet
  - c. Panchen series is a line spectrum in the infrared
  - d. The spectral series formula can be derived from the Ruther ford model of the hydrogen Vatom
- 90. Typical source of β- particle is
  - a. Radon 222
  - b. Cobalt 62
  - c. Strontium 94
  - d. None
- 91. The effect of the decrease in pressure with the increase in speed of the fluid in horizontal tube gives that
  - a. Torricelli effect
  - b. Bernoulli effect
  - c. Venture effect
  - d. Doppler's effect
- 92. For better resolution and clear visibility trough microscope we use
  - a. Longer wavelength light
  - b. Shorter wavelength light
  - c. Wavelength has no effect
  - d It depend only on design of microscope not on a light
- 93. Which of the following processes will result into fission reaction?
  - a. 92 U<sup>235</sup> is bombard with fast moving neutron
  - b. 92 U<sup>235</sup> is bombard with thermal neutron
  - c. 92 U<sup>238</sup> is bombard with slow moving neutron
  - d. 92 U<sup>235</sup> is being unstable breaks into smaller fragments
- 94. Which one of the following is possible?
  - a.  $_{7}N^{14} + _{0}n^{1} \rightarrow _{7}N^{16} + _{1}H^{1}$
  - b.  ${}_{16}S^{32} + {}_{1}H^1 \rightarrow {}_{17}Cl^{35} + {}_{2}He^4$
  - c.  ${}_{8}O^{16} + {}_{0}n^{1} \rightarrow {}_{7}N^{14} + 3 {}_{1}H^{1} + 2 {}_{-1}\beta^{0}$
  - d.  $_{1}H^{1} + _{1}H^{1} \rightarrow _{2}He^{4}$
- 95. Which of the following is example of vector product of two vectors?
  - a. Linear momentum;
  - iux Ridumya.com b. Angular momentum
  - c. Force
  - d. Electric flux

96. Th	radius of second orbit of hydrogen atom is	
	a. 0.53A <sup>0</sup>	
	b. 2.12A <sup>0</sup>	
	c. 3.53A° d. 4.12 A°	
	d. 4.12 A <sup>o</sup>	
97. El	ment with atomic number Z 82 are	
	a. Stable	
- 0	b. Unstable Comment of the Comment o	
A	d. None	
ag Th	number of neutrons 'N' is equal to	
<i>3</i> 6. III	a. N = A-Z	
	b. N = A+Z	
	c. N = A x Z	
	d. N = ½ A + Z	
00 \\/	u. N = 72 A + 2 en sound waves move from one medium to other medium the quantity which rel	in
		IIdiii
un	hanged is	
	a. Wavelength	
	b. Frequency	
	c. Speed	
100.	d. Intensity  Rutherford's experiments of deathering of a particles, proved that:	
100.	Rutherford's experiments on scattering of a particles proved that:  a. Atom is mostly empty	
	b. +ive charge is uniformly distributed in the atom	
W	c. Number of +ive charge is equal to the number of -ive charge	
V	d. Atoms contains electron	
101.	Which of the following source give discrete emission spectrum?	
	a. Incandescent electric bulb	
	b. Sun	
	c. Mercury vapor lamp	
	d. Candle	
102.	When a hydrogen atom is raised from the ground state to an excited state	
	a. P.E increases and K.E decreases	
	b. P.E decreases and K.E increases	
	c. Both P.E and K.E increases	
	d. Both P.E and K.E decreases	
103.	The half-life of a radioactive substance is 10 days. This mean that	
	a. The substance completely disintegrates in 20 days	
	b. The substance completely disintegrates in 40 days	
	c. 1/8 parts of the mass if the substance will be left intact at the end of 40 day	'S

110.		In Bohr model of hydrogen atom let PE represent PE, and TE the total energy in going
to a higher orbit		
	a.	PE increases TE decreases
	b.	PE decreases, TE increases
	c.	PE increases TE increases
	d.\/	RE decreases,TE decreases
111.		A photon of x rays of 10.2 eV energy is absorbed by hydrogen atom. This will raise an
ele	ctro	n from n=1 orbit to which one of the following orbits?
	a.	N =2
	b.	n= 3
	c.	n =4
	d.	n= 5
112.		aging process of the human body is slowed by motion at
	a.	very slow speed
	b.	very high speed
	C.	very high speed along a circular path
	d.	none of these
113.		the amount of energy needed to remove electrons from the metal surface depends
upo	on	
	a.	work allowallow
	b.	work function
	C	HOWELL OF THE PROPERTY OF THE
	d. `	wavelength
114.		when scattered x rays photons are observed at $\Theta$ =90°, the Compton shift $\Delta\lambda$ equal to
	a.	Compton shift
	b.	Compton wavelength
	c.	Full wavelength
	d.	None
115.		The transitions of inner shell electrons in heavy atoms give
	a.	α rays
	b.	β rays
	c.	γ rays
	d.	x rays
116.		the temperature scale which is independent of the nature of the working substance is
	a.	Celsius scale
	b.	Fahrenheit scale
	c.	Centigrade scale
	d.	Thermodynamid sdale
	1	Maga

117.		The period of a pendulum is measured to be 3.0 s in the inertial frame of the pendulum
	d the	e period by an observer moving at 0.95 c with respect to pendulum
	a.	5.6s 8 1 m
	b.	7.95
200	18.5	9.65
10/1	d.	9.8s
118.		A photocell with a constant potential difference of V volt across it illuminated by a point
sou	ırce	from a distance of 25 cm. when the source is moved to a distance of 1m. The electrons
em	itted	d by the photocell.
	a.	Carry ¼th their previous energy.
	b.	Are 1/16 <sup>th</sup> as numerous as before
	c.	Are 1/4 <sup>th</sup> as numerous as before
	d.	Carry 1/4 <sup>th</sup> their pervious momentum
119.		The heat engine operating in reverse is called
	a.	Electric generator
	b.	Refrigerator
	c.	Carnot engine
	d.	Electric motor
120.		Light of certain wave length and intensity ejects photoelectrons from a metal plate.
The	en th	nis beam is replaced by another beam of smaller wavelength and smaller intensity. As a
res	ult:	SI Imin I Walley
	a	No change occurs
W	[b./]	Emission of photoelectrons stops
00	c.	K.E of the photoelectrons decreases but the strength of the photoelectric current
		increases
	d.	K.E of the photoelectrons decreases but the strength of the photoelectric current
		decreases
121.		In a nuclear reaction, which of the following is conserved?
	a.	Atomic number only
	b.	Atomic mass only
	C.	Atomic number and mass number and energy
	d.	
122.		When a rays pass through strong uniform magnetic field, then they
	a.	Do not get deflection at all
	b.	get deflected in the direction of the field
	C.	get deflected in the direction opposite to the field
	d.	get deflected in the direction perpendicular to the field
		SILLULATION
		and Illinia
	MI	MM gllwillvin

123.		the frequencies of x rays , y rays and ultra violet rays are respectively a, b, and c. then
	a.	a > b, b > c
	b.	a < b, b > c
	c.	a < b, b < c
	d.	a > b, b < c, \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \
124.		emitter of the transistor has greater concentration of impurity as compared to
	a.	base only
	b.	collector only
	c.	both base and collector
	d.	none
125.		Two inputs of nand gates are shorted. This gate is equivalent to
	a.	or gate
	b.	and gate
	c.	not gate
	d.	xor gate
126.		In L.C.R series A.C circuit, the phase angle between current and voltage is
	a.	Any angle between 0 and $\pm \frac{\pi}{2}$
	b.	
	c.	$\pi$
	d.	Any angle between Q and T
127.		The force on electron in electric field of 108 N/C
	a.	1,6 × 10
	b.	1.6 x 10 <sup>-8</sup>
	c.	$1.6 \times 10^{-10}$
	d.	1.6 x 10 <sup>-11</sup>
128.		Cause of heat production in a current carrying conductors is
	a.	Collisions of free electrons with one another
	b.	High drift speed of free electrons
	c.	Collision of free electrons with atoms or ions of conductor
	d.	High resistance value
129.		A point charge Q is placed at the mid-point of a line joining two charges, $4\ q$ and $q$ . if
the	net	force on charges q is 0, then Q must be equal to
	a.	-q
	b.	+q
	c.	-2q
	d.	+4q
		-q +q -2q +4q
	/	

130.	Find the average speed of oxygen molecule in the air at S.T.P
	a. 591m/s
	b. 461m/s
	c. 396m/s
	d. 372m/s
131.	The life time of an ordinary excited state is
	a. 10 <sup>-35</sup> sec
	b. 10 <sup>-8</sup> sec
	c. 10 <sup>-3</sup> sec
	d. 0.1 sec
132.	In case of a vibrating pendulum the potential energy is maximum at
	a. Mean position
	b. Extreme position
	c. Both A and B
	d. None
133.	With the increase of temperature viscosity.
	a. Increase b. Decrease
	b. Decrease
	c. Remain same
	d. Doubles
134.	The unit of angular acceleration is
	a. Radiah
	b. Radian per second
	c. Radian per second <sup>2</sup>
	d. None
135.	A body moves a distance of 10 m along a straight line under the action of a force of 5
	ewton if the work done is 25 joules, the angle which the force takes with the direction of
m	otion of the body is
	a. $0^{0}$
	b. 30°
	c. $60^{\circ}$
	d. 90°
136.	The horizontal range of a projectile, at a certain place, depends upon:
	a. The mass of the projectile
	b. The velocity of the projection
	c. The angle of the projection
	d. The angle and as well as velocity of the projection
	MA A A

The dot product of two vectors is negative is 137. a. They are parallel vectors b. They are perpendicular vectors c. They are anti-parallel vectors d. They are negative vectors 138. From the following pairs, choose the pair that does not have identical dimensions a. Angular momentum and Planck constant b. Moment of inertia and moment of force c. Work and torque d. Impulse and momentum 139. Resistive forces are: a. Non conservative b. Conservative c. Both A and B d. None dlumys.com 140. Si unit of the intensity of wave is a.  $jm^{-2} s^{-2}$ b. im<sup>-1</sup> s<sup>-1</sup> c. wm<sup>-2</sup> d. jm<sup>-2</sup> 141. the branch of chemistry which convert the chemical energy into electrical energy and electrical energy into chemical energy a. thermochemistry b. electrochemistry c. bio chemistry d. none 142. electrolytes have the ability to pass electricity because they posses a. free electrons b. fused electrolyte c. charged ions d. none an organic compound X (molecular formula of C<sub>6</sub>H<sub>7</sub>O<sub>2</sub>N) has six atom in a ring system 143. two double bonds and also a nitro group as substituents VZ).com a. heterocyclic b. hemicyclic and aromatic c. aromatic but not hemicyclic d. hemicyclic but not aromatic

144.		Which one of the following is not a pollution?
	a.	$CO_2$
	b.	$NO_2$
	c.	co
	d.	CO SO <sub>2</sub> Ozone hole refers to a Commission of the Commission of th
145.		Ozone hole refers to
	a.	Hole in ozone layers
	b.	Reduction in thickness of ozone layer in stratosphere
	c.	Reduction of thickness of ozone in troposphere
NA	(d)	Increase concentration of ozone
146.	U	Which of the following is not present in RNA?
	a.	Uracil
	b.	Thymine
	c.	Ribose
	d.	Phosphate
147.		In fructose the possible optical isomers are
	a.	12
	b.	8
	C.	16
	d.	4
148.		Straight chain hydrocarbons are
	a.	In which atoms of C are in a series
	b.	Not in a series
	c.	In which each carbon is attached at least with three other carbon atom
	d.	None
149.		In Friedal-craft's alkylation besides AlCl <sub>3</sub> the other reactants are
	a. b.	C <sub>6</sub> H <sub>6</sub> + NH <sub>3</sub> C <sub>6</sub> H <sub>6</sub> + CH <sub>4</sub>
	D. С.	C <sub>6</sub> H <sub>6</sub> + CH <sub>5</sub> Cl
	d.	C <sub>6</sub> H <sub>6</sub> +CH <sub>8</sub> QQQ
150	S	Benzene is obtained from benzene sulphuric acid by treating with
MA	a.	HCL
	b.	NaOH
	c.	$H_2O$
	d.	NaHCO <sub>3</sub>
151.		Limestone is not used in which of the following manufacturing processes?
	a.	Phosphorus from phosphorite
	b.	Ordinary(soda lime) glass
	c.	Iron from hematite
	d.	Solvay process of sodium carbonate

152.		Which one of the following allotropic form of carbon is isomorphous with crystalline
sili	conî	Graphic Graphic
	a.	Graphic Coal Coke
	b.	Coal
	C.	
	d.	Diamondo
153.	10/	Redox chemical reaction equation can be balanced by
	a.	Oxidation no method
	b.	Ion electron method
	С.	Both
	d.	None
154.		The elements with atomic numbers 9,17,35,53,85 and all
	a.	Noble gases
	b.	Halogens
	C.	Heavy metals
455	d.	Light metals
155.		The conductivity of strong electrolyte
	a.	There as a strain and the strain and
	b.	Does not change on dilution
	C.	Decreases on dilution
156.	W	Depends on density of electrolyte itself  Matals will displace another metal from the solution of its salt if
156.	2	Metals will displace another metal from the solution of its salt if It lies above in electrochemical series
	a. b.	It lies below in electrochemical series
	c. d.	Cannot replace None
157.	u.	Calculate the percentage by weight of NaCl, if 2.0 g of NaCl us dissolved in 20g of
	ter	Calculate the percentage by weight of Naci, if 2.0 g of Naci us dissolved in 20g of
vva	a.	11.2%
	b.	9.09%
	С.	13.1%
	d.	
158.		14.25% Which of them are coinage metals
	a.	Cu, Pb ,Ni
	b.	Mn, Cr, Fe
	C.	CulAgilAu
	gn	None

159.		Which of the following is a buffer solution?
	a.	Brine
	b.	Blood Glue
	c.	Glue
	d.	Solution of CuSO <sub>4</sub>
160.		Which of the following statement regarding catalyst is not true?
	a.	A catalyst remains unchanged in composition and quantity at the end of the reaction
	b.	A catalysts can initiate a reaction
	c.	A catalyst does not alter the equilibrium in a reversible reaction
	d.	Catalysts are sometimes very specific respect of reaction
161.		Free energy change for a reversible process is
	a.	>0
	b.	<0
	c.	Equal to 0
	d.	Unpredictable
162.		What would be the heat released when an aqueous solution containing 0.5 mole of
HN	O <sub>3</sub> is	s mixed with 0.3 mole of OH <sup>-</sup> (enthalpy of neutralization is -57.1 kj)
	a.	28.5 kj
	b.	17.1 kj 45.7 kj
	c.	45.7 kj
	d.	1.7 kj
163.		Lateral overlapping expected
	a.	O bond
	b.	∧-bonds
	c.	Ionic bond
	d.	Metallic bond
164.		Flourine molecule is formed by
	a.	The axial p-p overlap
	b.	The sidewise p-p overlap
	c.	The axial s-p overlap
	d.	The overlap of two sp <sup>2</sup> hybird orbital
165.		In BrF <sub>3</sub> molecule, the lone pairs occupy equatorial positions to minimize
	a.	Lone pair – lone pair repulsion
	b.	Lone pair -bond pair repulsion
	C.	Bond pair –bond pair repulsion
	d.	Lone pair –lone pair repulsion and lone pair –bond pair repulsion
166.		Rutherford's experiment led to the discovery of
	a.	Nucleus
	b.	Electron
	C.	Proton
	d.	A-particle A-particle

167.		The total number of orbitals ina shell with principal quantum number 'n' us
	a.	2n 2n <sup>2</sup>
	b.	2n <sup>2</sup>
	c.	$n^2$
	d.	n+1
168.	- (	Which is not true with respect to cathode rays?
	a.V	A stream of electron
	b.	Charged particles
	c.	Move with speed as that of light
	d.	Can be deflected by magnetic fields
169.		The ability to lose electron in electrochemical series
	a.	Increase from top to bottom
	b.	Decrease from top to bottom
	c.	No effect
	d.	None of these
170.		What is the concentration of nitrate ions? If equal volumes of $0.1M\ AgnO_3$ and $0.1\ M$
Na	Cl ar	re mixed together?
	a.	0.1M
	b.	
	C.	0.05N/ SI (2)
	d.	0.25M
171.	V	The applicant for a new IT job in USmore on the interview preparation. The result
of	thei	r efforts would have been quite different
	a.	Have focused
	b.	Had focused
	c.	Focused
	d.	Were focused
172.		Ifthe match, I will go to Lahore to meet the sports board chairman.
	a.	I will win
	b.	I win
	C.	I shall win
	d.	I wins
173.		Ifyour jobs what would you do?  You had lost
	a.	You had lost
	b.	you have lost
	c.	You loss
	dV	Not post of a second se

dlumya.com 174. If I there, I would make a speech.

- a. Had been
- b. Have been
- Were
- d. Was

Unless a student with the collage regulations, he can be removed from the 175. collage.

- Will comply
  - b. Had complied
  - c. Complies
  - d. Complied

The public distribution system, which provides food at low prices, is subject if vital concern. There is a growing realization that though Pakistan has enough food to feed its masses three square meals a days, the monster of s starvation and food insecurity continues to haunt the poor in our country.

Increasing the purchasing power of the poor through providing productive employment leading to rising income, and thus good standard of living is the ultimate objective of public policy. However, till then, there is a need to provide assured supply of food through a restructured more efficient and decentralized public distribution system (PDS).

Although the PDS is extensive- it is one of the largest such systems in the world - it has yet to reach the rural poor and the far off places it remains an urban phenomenon, with the majority of the rural poor still out of its reach due to lack of economic and physical access. The poorest in the cities and the migrantsare left out, for they generally do not possess ration cards. The allocation of PDS supplies in big cities is larger than in rural areas. In view of such deficiencies in the system, the PDS urgently needs to be steam lined. In addition, considering the large food grains production combined with food subsidy on one handand the continuing slow starvation and dismal poverty of the rural population on the other, there is strongcase for making PDS target group oriented

The growing salaried class is provided job security, regular income, and %age insulation against inflation. These gains of development have not percolated down to the vast majority of our working population. If one compares only dearness allowance to the employees in public and private sector and looks at its growth in past few years. The rising food subsidy is insignificant to the point of in equality. The food subsidy is a kind of D.A to the poor, the self-employed and those in the organized sector of economy. However, what is most unfortunate is that out of the large budget of the so-called food subsidy, the major part of it is administrative cost and wastages. A small portion of the above budget goes to real consumer and even lesser portion to the poor who are in real need.

It is true that subsidies should not become a permanent feature, except for the destitute disabled widows and the old. It is also true that subsidies often create a psychology of dependence and hence is habitforming, killing the general initiative of the people. By making PDS target group oriented, not only the poorest and needlest would be reached without additional cost, but it will actually cut overall costs incurred on large cities and for better off localities. When the food and food subsidy are limited the rural and urban poor should have the priority in the PDS supplies. The PDS should be closely linked with PDS should be closely linked with programs of employment generation and nutrition improvement.

- 176. What according to the passage is the main concern about the PDS?
  - a. It has not been able to develop confidence in the people at large
  - b. It has not been able to utilize the entire food grains stock available
  - c. It has effectively channelized the food grains to all sectors.
  - d. It has not been able to provide sufficient food to the poorer section of the society
- 177. What should be an appropriate step to make the PDS effective?
  - a. To Make it target group oriented
  - b. To increase the amount of food grains per ration card
  - c. To decrease the allotment of food grains to urban sector
  - d. To reduce administrative cost
- 178. Which of the following, according to the passage, is compared with dearness allowance?

VS).com

- a. Food for work program
- b. Unemployment allowance
- c. Food subsidy
- d. Procurement price of food grains
- Food subsidy leads to which of the following? 179.
  - a. Sense of insecurity
  - b. Increased dependence
    - Shortage of food grains
  - d. Decrease in food grains production
- 180. What according to the passage, would be the outcome of making the would PDS target

## **Group Oriented**

- a. It will abolish the imbalance of urban and rural sector
- b. It will remove poverty.
- c. It will give food to the poorest without additional cost.
- d. It will motivate the target group population to work more.
- 181. Knife: cut:: (analogy)
  - a. Winter: summer
  - www.allmkye.com b. Sword: sharp

Kidumya.com 182. Fish: trout::(analogy) a. Bird: aviary b. Ocean: wave c. Antenna: insect d. Mammal cow Gill: fin :: (analogy) 183. a. Cockroach: antenna b. Instrument: pencil c. Hard disk: keyboard d. Bread: butter 184. Fish: school:: (analogy) a. Puppy: dog b. Novel: story c. Cocks: pride d. Ear: nose 185. Counselor: advice (analogy) Kidumya.com a. Artist: musician b. Patron:support c. Honesty: charity d. Bank:banker Wane (synonym) 186. a. Recline Tried b. c. Dead d. Shine Baptize (synonym) 187. a. Christen b. Holy c. Dehumanize d. Something that had been ostracized Indeterminate (antonym) 188. a. Calculated mkidumya.com b. Conclusive c. Extravagant d. Astonished 189. Foible (antonym) a. Feasible gull c. Luxurious d. Forte

190.		Attract (antonym)
	a.	Progress
	b.	Circumnutates
	C.	Magnetic
	d.	Repel C(0)
191.		Who is current chairman of ICC?
	a.	Percy sonn
	b.	David Morgan
	c.	Srinivaşan ( )
	d.	Sharad pawar
192	M	Name of the country whose court has sentenced 30 people death over heroin smuggling
11/1	in what	is said to be the largest such trail ever held in the country?
	a.	Brazil
	b.	Korea
	C.	France
	d.	Vietnam
193.		Who is appointed as president of national bank of Pakistan by the government
	a.	Syed ahmad Iqbal ashraf
	b.	Waqar qureshi
	C.	Jamal din
	d.	Akhtar Hussain
194.		Which country declared a state of emergency in her capital and surrounding areas to take
	protect	s aimed at overthrowing the government?
	a.	Austria
	b.	China
	c.	Croatia
	d.	Thailand
195.		When Pakistan and Saudi Arabian signed hajj agreement at hajj ministry of the kingdom
	of Sauc	li Arabia?
	a.	16/1/2014
	b.	22/1/2014
	С.	18/1/2014
	d.	26/1/2014
196. Who was awarded with Ulysses award 2013 for the lifetime achievement by UNWTO		
MM.	promo	ting sustainable tourism?
	a.	Dr. Tajveer singh
	b.	Richard quest
	С.	Dr. Gurbaksh
	d.	Aleni shiror

197.		Which country allowed the Sikhs to wear turban while serving in military?  UK  USA
	a.	UK
	b.	USA WWW.DG
	c.	France
	d.	Germany
198.		Duty: Memoirs of a secretary at war is written by
	a.	Rober gates
	b.	Michal Johnson
	c.	Hector fanky
	d.	Timber McCollum
199.		Hector fanky Timber McCollum Who won the Australian Open Men's single titles on 26th January 2014?
	a.	Rafael Nadal
	b.	Roger Feferer
	C.	Andy Murray
	d.	Stanislaus Waurika
200.		Which country has won the female gold in match played in lusofonia games 2014?
	a.	Which country has won the female gold in match played in lusofonia games 2014?  Angola  Mozambique  Brazil
	b.	Mozambique
	C.	Brazil
	d.	India