Sr.	Question		
No.			
1.	Which of the following cells in plants show totipot	tency	
	(A) Xylem vessels	(B)	Sieve tubes
	(C) Meristem	(D)	Cork cells
2.	Father of taxonomy is		
	(A) John Ray	(B)	Linnaeus
	(C) Aristotle	(D)	Lamark
3.	Which of the following has more characters in con	nmon	
	(A) Species	(B)	Genus
_	(C) Class	(D)	Division
4.	Riccia is a liverwort as it		
	(A) produces liver diseases	(B)	is present in liver
-	(C) cures liver diseases	(D)	is like a flat lobed thallus
5.	Gymnosperms are characterized by		
	(A) Large leaves	(B)	Ciliated sperms
	(C) Naked ovules	(D)	Scale leaves
6.	A root parasite is		
	(A) Cuscuta	(B)	Striga
	(C) Brassica	(D)	loranthus
7.	Roots that grow from any part of the plant body ot	her that	an the radicles are
	(A) Adventitious roots	(B)	Tap roots
	(C) Modified roots	(D)	Aerial roots
8.	Parallel venation is a characteristic of		
	(A) Parasitic plants	(B)	Xerophytic plants
0	(C) Legumes	(D)	Grasses
9.	A bisexual flower which never opens in its life spa	in is ca	alled
	(A) Cleistogamus	(B)	Heterogamus
10	(C) Homogamus	(D)	Dichogamus
10.	Quiescent centre is located in	(D)	Deatanay
	(A) Shoot apex (C) Leaf apex	(D)	Root apex Pud apex
11	(C) Leaf apex Cosporion strips occur in the cells of	(D)	Buu apex
11.	(A) Enidermis	(B)	Exodermis
	(C) Endodermis	(\mathbf{D})	Hypodermis
12	Vascular hundles are absent in	(D)	Hypodellins
12.	(A) Monocots	(B)	Dicots
	(C) Gymnosperms	(D)	Pteridophytes
13	Aerenchyma is derived from	(2)	i terraophytes
10.	(A) Parenchyma	(B)	Sclerenchyma
	(C) Phloem	(D)	Xvlem
14.	Vascular bundle having cambium is	(-)	
	(A) closed	(B)	open
	(C) conjoint	(D)	collateral
15.	What do you eat in coconut		
	(A) Embryo	(B)	Mesocarp
	(C) Entire seed	(D)	Fruit wall
16.	Phyllode is a modification of	· /	
	(A) Flower	(B)	Bud
	(C) Root	(D)	Petiole

17.	Fingermillet is		
	(A) Eleusine	(B)	Setaria
	(C) Pennisetum	(D)	Sorghum
18.	Microsporophyll of Cycas is equivalent to	of	angiosperms
	(A) Sepal	(B)	Stamen
	(C) Ovary	(D)	Ovule
19.	Jackfruit is an example of		
	(A) Multiple fruit	(B)	Aggregate fruit
	(C) Simple fruit	(D)	None of these
20.	Anther wall in angiosperms contain how many w	all laver	S
	(A) 3	(B)	4
	(C) 5	(D)	6
21.	If an endosperm cell of angiosperm has 36 chrom	losomes	, the root cell should have
	(A) 18	(B)	16
	(C) 4	(D)	24
22.	Amino acid synthetase enzyme is activated by	(2)	
	(A) Mg	(B)	Cu
	(C) Zn	(D)	Fe
23	Number of net gain ATP in aerobic respiration is	(2)	
20.	(A) 2	(B)	42
	$(\Gamma) = \frac{2}{38}$	(D)	41
24	One glucose molecule partially oxidized in anaer	obic res	niration produces
<i>2</i> 1.	(Δ) 30 Δ TPs	(\mathbf{R})	38 A TPs
	(Γ) 2 ATPs	(D)	15 ATPs
25	In forest ecosystem green plants are	(D)	10/1115
23.	(A) Primary consumers	(\mathbf{R})	Primary producers
	(C) Decomposers	(D)	None of these
26	The largest cell in the embryo sac is	(D)	None of these
20.	(A) Central cell	(\mathbf{R})	Faa
	(C) Synergids	(D)	Lgg None of these
27	Double membrane is absent in	(D)	None of these
27.	(A) Mitochondria	(\mathbf{R})	Chloroplast
	(A) Mitochondria (C) Perovisome	(D)	Colgi body
28	DNA content is doubled in stage of cel	(D) Il divisio	Oolgi body
20.	(A) Prophase	(\mathbf{R})	Metanhase
	(A) Trophase (C) C phase	(D)	S phase
20	A group of individuals of different species is call	(D) ad	3- phase
29.	(A) Population	CU (P)	Community
	(A) Topulation (C) Biome	(D)	None of these
20	(C) Diome	(D)	None of these
30.	$ (A) \qquad A dening and Cugning $	(D)	Cuaning and Cutaging
	(A) Adenine and Guanne (C) Thymine and Cytoging	(D)	A daming and Thyming
21	(C) Infinite and Cytochie The normant which is chart in chloroplast is	(D)	Adenine and Thymine
51.	(A) Chlorophyll 'o'	(D)	Chlorophyll (h)
	(A) Uniorophyli a (C) Venthebell	(B)	
22	(C) Xaninpnyn Data of transministion is moosynad hy	(D)	Anthocyanine
32.	(A) Menunetar	(D)	Determenter
	(A) Manometer	(B)	Potometer
22	(C) Auxanometer	(D)	none of these
55.	I ne site of primary photochemical reaction is		Course
	(A) Stroma (C) Derivlent a it	(B)	Grana
	(C) Periplast cavity	(D)	Inner layer

(A) N. Borlaug (B) K.C. Mehta (C) M.S. Swaminathan (D) None of these 35. Plants which grow in shade are (A) Sciophytes (D) (A) Sciophytes (D) Psamophytes 36. The amount of living material in different trophic levels is called (A) Standing crop (B) Standing state (C) Upry weight (D) Biomass 37. In pond ecosystem pyramid of number is always (A) Straight (B) Linear (C) Upright (D) Inverted 38. Vegetation dominated by shrubs with few tall trees is called (A) Secule (B) Marsh (C) Grassland (D) Forest 39. Total energy produced during photosynthesis is called (A) Total biomass (B) Primary consumers (C) Kerpinary producers of the ecosystem are (A) Grassland (D) Nore of these 41. The chemical knives of DNA are (A) Ligases (D) Thanscriptases	34.	Father	of green revolution in India is			
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49.Lignified cell wall occurs in (A) Epidermal cells(B) Cambial cells (D) Xylem cells(C) Phloem cells(D) Xylem cells	40	(C)	1992	(D)	1996	
(A)Epidermal cells(B)Cambial cells(C)Phloem cells(D)Xylem cells	49.	Lignif	ied cell wall occurs in			
(C) Phloem cells (D) Xylem cells		(A)	Epidermal cells	(B)	Cambial cells	
		(C)	Phloem cells	(D)	Xylem cells	

50.	A slide of TS dicot stem shows		
	(A) Scattered vascular bundles	(B)	Vascular bundles arranged in a ring
	(C) Radial vascular bundles	(D)	Closed vascular bundles
51.	Once formed, red blood cells normally have an ave	erage l	ife span of
	(A) 30 days	(B)	60 days
	(C) 90 days	(D)	120 days
52.	Heparin, an anticoagulant is manufactured by		
	(A) Plasma cells	(B)	Mast cells
	(C) Lymphocytes	(D)	Blood platelets
53.	Function of long bones in mammals is to		
	(A) Provide support only	(B)	Provide support and production of
			RBC only
	(C) Provide support and production of WBC	(D)	Provide support and production of
	only		RBC and WBC
54.	Binocular vision is seen in		
	(A) Man	(B)	Rabbit
	(C) Rat	(D)	Guinea pig
55.	Spermatogenesis is influenced by		
	(A) Testosterone	(B)	Luteinizing hormone
	(C) FSH	(D)	All of these
56.	The type of respiration found in man is		
	(A) Cutaneous	(B)	Subcutaneous
	(C) Pulmonary	(D)	Diffusion
57.	What happens if RBCs are put in a hypertonic solu	ition	
	(A) They will contract and loose water	(B)	They will swell up and burst
-0	(C) They will show clumping	(D)	None of these
58.	In man, urea is formed in the		
	(A) Body tissues	(B)	Kidney
50	(C) Liver	(D)	Spleen
59.	Which of the following stood erect first	(D)	D 1 '
	(A) Java man	(B)	Peking man
(0	(C) Australopitnecus	(D)	Cro-Magnon man
60.	A) Virging on the earth were	(D)	Destaria
	(A) Viruses	(B)	Bacteria
61	(C) Green algae The 'Use and disuse' principle of evolution was pr	(D)	Blue green algae
01.	(A) Lamaral		Waiaman
	(A) Lamaick (C) Huga da Vrias	(D)	Charles Derwin
62	(C) Hugo de viles The following is an example of inhorn error in met	(D) tabolis	Charles Dai will
02.	The following is an example of moon error in met (Λ) Spine bifide	(D)	Dhanylkatonuria
	(A) Spina Unida (C) Photometia	(\mathbf{D})	Mongolism
63	(C) Flocomena Identical twins develop from	(D)	Mongonsm
05.	(A) One ovum and two sperms	(\mathbf{R})	Two ova and one sperm
	(C) Two ova and two sperms	(\mathbf{D})	None of these
64	The chromosomes are best studied at the following	(D) T stage	of mitosis
04.	(A) Prophase	(R)	Metanhase
	(\mathbf{C}) Anaphase	(\mathbf{D})	Telophase
65	A monosomic individual can be mathematically re	nresen	ted as
05.	(A) $2n-2$	(R)	2n+1
	(C) 2n-1	(D)	2n-4
		(1)	<u></u> 11 1

66.	In a fruit fly, a white eyed XXY female is mated would be	to a red	eyed XY male. The female progeny
	(A) All red eved	(B)	All white eved
	(C) Mainly red eved with a few white eved	(D)	Mainly white eved with a few red eved
67	One of the following is a sex linked trait in hum:	ans	
07.	(A) Curly hairs	(B)	Sickle cell anemia
	(C) Colour blindness	(D)	Down's syndrome
68	First experimental evidence for triplet code was	given by	,
00.	(A) Nirenberg	(B)	H G Khorana
	(C) Watson	(D)	F.H.C. Crick
69	Protein coat virus is known as		
07.	(A) Capsid	(B)	Capsomere
	(C) Virion	(D)	Viroid
70.	Chemically a gene is		
	(A) Nucleoprotein	(B)	Polypeptide
	(C) Ribonucleic acid	(D)	Polynucleotide
71.	Apes differ from man in having		
	(Å) Arms shorter than legs	(B)	Legs shorter than arms
	(C) Length of arms and legs is similar	(D)	A tail
72.	The disease transmitted through sexual contact is	S	
	(A) Measles	(B)	Syphilis
	(C) Polio	(D)	Small pox
73.	Hypersensitivity of tissue occurs in		
	(A) Cancer	(B)	Malaria
	(C) Allergy	(D)	Small pox
74.	The sporozoites of malarial parasites are stored i	in	
	(A) Liver of man	(B)	Blood of man
	(C) Stomach of females anopheles	(D)	Salivary glands of female anopheles
75.	The following plant has male and female reprodu	uctive pa	arts in the same flower
	(A) Papaya	(B)	Datepalm
	(C) Cycas	(D)	Datura
76.	Optum is derived from		
	(A) Latex of <i>Papaver somniferum</i>	(B)	Seeds of Papaver somniferum
	(C) Seeds of Cojjee drabica	(D)	Leaves of datura
//.	Penicillium was first isolated from	(D)	Denieilling change a survey
	(A) Penicillium nigricans (C) Panicillium notatum	(D)	Penicillum chrysogenum Penicillum griseofulwum
70	(C) Tenicilium notatum Which of the following is an implant?	(D)	1 enicilium griseojuivum
/8.	(A) Blood dialyzer	(\mathbf{R})	Heart value
	(C) Artificial limbs	(D)	Oxygenator
70	Chemical nature of jute fibre is	(D)	Oxygenator
19.	(Λ) Lignin	(B)	Cellulose
	(\mathbf{C}) Pectin	(D)	Suberin
80	The conversion of molecular nitrogen to ammon	ia is kno	wn as
00.	(A) Nitrification	(B)	Denitrification
	(C) Ammonification	(D)	Nitrogen fixation
81	Cocaine is a powerful stimulant of	(2)	
01.	(A) Heart beat	(B)	Central nervous system
	(C) Muscles	(D)	Breathing
	5 P C B	А	

82.	Diagnosis of typhoid is done by		
	(A) ESR	(B)	ELISA test
	(C) DLC	(D)	WIDAL test
83.	Scientific study of human population is called		
	(A) Demography	(B)	Geography
	(C) Anthropology	(D)	Biogeography
84.	Vinegar is obtained due to biological activity of		
	(A) Acetobactor	(B)	Lactobacillus
	(C) Nostoc	(D)	Anabaena
85.	The following disease involves change in chromoso	ome ni	umber
	(A) Colour blindness	(B)	Haemophilia
	(C) Down's syndrome	(D)	Jaundice
86.	Ringworm disease is caused by		
	(A) Annelid	(B)	Helminthes
	(C) A fungus	Ď	A bacterium
87.	The open type of circulatory system is found in	()	
	(A) Nereis	(B)	Octopus
	(C) Prawn	(D)	Frog
88.	The process of translation is	()	-0
	(A) Ribosome synthesis	(B)	Protein synthesis
	(C) DNA synthesis	Ď	RNA synthesis
89	Dengue is transmitted by	(-)	
07.	(A) Culex	(B)	Male anopheles
	(C) Aedes	(D)	Female anopheles
90	Young of cockroach is called	(2)	
<i>y</i> 0.	(A) Ephyra	(B)	Nymph
	(C) Maggot	(D)	Iuvenile
91	Number of mitotic divisions required to produce 12	8 cell	s from a single cell is
<i>y</i> 1.	(A) 7	(B)	14
	(C) = 16	(D)	32
92	Distance between two adjacent nitrogen bases of D	NA is	
<i>,</i> _ .	(A) 2.4 A°	(B)	$34 A^{\circ}$
	$(C) 24 A^{\circ}$	(D)	$34 A^{\circ}$
93	In addition to the nucleus DNA also occurs in	(D)	5111
20.	(A) Mitochondria	(B)	Lysosome
	(C) Ribosome	(D)	Golgi appratus
94	First photosynthetic organisms to develop on earth	were	Solgi upplatas
<i>y</i>	(A) Bacteria	(B)	Diatoms
	(C) Cyanobacteria	(D)	Green algae
95	The vector for causing sleening sickness in man is	(D)	Green uigue
<i>))</i> .	(A) House fly	(\mathbf{R})	Tse-Tse fly
	(C) Butterfly	(D)	Mosquito
96	Chromosomes are stained with	(D)	Mosquito
<i>J</i> 0.	(A) Saffranine	(\mathbf{R})	Acetocarmine
	(\mathbf{C}) Sciff's regent	(\mathbf{D})	Ethanol
97	The universal recipient blood group is	(D)	L'inditor
)1.	$(\Lambda) \qquad \Lambda$	(\mathbf{R})	٨B
	$\begin{pmatrix} A \mathbf{y} \\ C \end{pmatrix} = \begin{pmatrix} A \mathbf{y} \\ C \end{pmatrix}$	(D)	R
98	Arsenic pollutant in drinking water causes	(D)	D
<i>J</i> 0.	(A) Liver and lung diseases	(\mathbf{R})	Paralysis
	(C) Kidney diseases	(D)	1 alalysis Cancer
	(C) Klulley diseases	(D)	Cancer

99.	In the colony of <i>Apis indica</i> , the one formed b (A) Queen	by parthenogenesis is (B) Worker
	(C) Drone	(D) Both B and C
100.	The pollutant responsible for chromosomal m	utations in man is
	(A) Lead	(B) Manganese
	(C) Arsenic	(D) Mercury
101.	While walking on smooth surface one should	take small steps to ensure
	(A) Large friction	(B) Small friction
100	(C) Larger normal force	(D) Smaller normal force
102.	What happens to a vehicle travelling in an unit	banked curved path if the friction between the road
	(A) Moves along tangent	(D) Moves radially in
	(A) Moves radially out	(D) Moves along the curve
103	(C) Moves faularly out A ball of mass 0.2 kg strikes an obstacle and t	(D) Moves along the curve
105.	changes from 20 m/s to 10 m/s the magnitude of	of impulse received by the ball isNs
	$(A) = 2\sqrt{7}$	(B) $2\sqrt{2}$
	$(\Gamma) = 2\sqrt{7}$	$\begin{array}{c} (D) & 2\sqrt{3} \\ (D) & 2\sqrt{2} \end{array}$
104	$(C) 2\sqrt{5}$	(D) $3\sqrt{2}$
104.	A spacecraft of mass 2000 kg moving with 60	00 m/s suddenly explodes into two pieces. One piece
	of mass 500 kg is stationary. The velocity of (A)	other part in m/s is $(\mathbf{p}) = 800$
	(A) 000 (C) 1500	(b) 800 (b) 1000
105	(C) 1500	(D) 1000
105.	16 kg 140 N	The force on 16 kg is
	- + Kg	
	(A) 140N	(B) $120N$
	(C) 100N	$\begin{array}{c} (D) & 12010 \\ (D) & 80N \end{array}$
106	A man of mass 40 kg is at rest between the wa	alls If coeff of friction between man and wall is
100.	0.8 find the normal reaction exerted by wall of	on man (take $g = 10 \text{ m/s/s}$)
	\bigcirc	
	пҮп	
	(A) 100 N	(B) 250 N
	(C) 80 N	(D) 50 N
107.		
	h	
		>
	Find minimum height in terms of D to comple	ete the loop
	(A) 7D/4	(B) 9D/4
	(C) 5D/4	(D) 3D/4
108.	Gravitational force between two bodies is F. T	The space around the mass is now filled with a
	liquid of specific gravity 3. The gravitational $\frac{1}{2}$	force will be
	(A) F/9	(B) 3F
	(C) F	(D) F/3
	7 P C	B A

109.	A man weighs 75 kg on the surface of earth. Hi	is weight o	on the geostationary satellite is
	(A) infinity	(B)	150kg
	(C) zero	(D)	75/2 kg
110.	g at a depth of 1600 km inside the earth in m/s.	/s is	
	(A) 6.65	(B)	7.35
	(C) 8.65	(D)	4.35
111.	A block of mass 19 M is suspended by a string	of length	1m. A bullet of mass M hits it and gets
	embedded in it. If the block completes the vert	ical circle	the velocity of bullet in m/s is
	(A) 140	(B)	$20\sqrt{19.6}$
	(C) $20\sqrt{9.8}$	(D)	20
112.	A rubber ball falls from a height of 4m and reb	ounds to 1	.5m. The % loss of energy during the
	impact is		
	(A) 20	(B)	62.5
	(C) 23	(D)	60
113.	25 kg of sand is deposited each second on a con	nveyor bel	t moving at 10m/s. The extra power
	required to maintain the belt in motion is		
	(A) 2600W	(B)	250W
	(C) 325W	(D)	2500W
114.	A uniform rod of mass M and length L standing	g verticall	y on a horizontal floor falls without
	slipping at the bottom. The moment of inertia v	vill be	2
	$(A) \qquad ML^{2}/3$	(B)	$ML^{2}/6$
	(C) $ML^2/9$	(D)	ML ² /12
115.	If the velocity of C.M of a rolling body is V, th	en velocit	y of highest point in the body will be
	$(A) \sqrt{2V}$	(B)	V N/ /2
116	$\begin{array}{c} (C) & 2V \\ T & 1 \\ \end{array}$	(D)	V/N2
116.	I he angular momentum of two rotating bodies	are equal.	If the ratio of their M.1 is 1:4, the ratio
	of their fotational K.E is $(A) = 1.2$	(D)	2.1
	(A) 1.2 (C) 1.4	(D)	2.1 4·1
117	(C) 1.4 The level of water in a tank is 5m Λ hole 1 cm	2 is made	at the bottom. The rate of leakage in m^3
11/.	s is (take $a = 10 m/s/s$)	15 maue	at the obtion. The fate of feakage in m
	$(\Delta) = 10^{-3}$	(\mathbf{R})	10 ⁻⁴
	$(\mathbf{R}) = 10$ $(\mathbf{C}) = 10$	(D)	10^{-2}
118	Two blocks A and B float in water A floats with	th $1/4^{\text{th}}$ of	its volume immersed and B floats with
110.	$3/5^{\text{th}}$ of its volume immersed. The ratio of their	densities	is
	(A) 5.12	(B)	12.5
	(C) 3.20	(D)	20.3
119	The terminal velocity of a spherical ball of lead	l of radius	R is V while falling through a viscous
	liquid varies with R such that		
	(A) V/R is constant	(B)	VR is constant
	(C) V is constant	(D)	V/R^2 is constant
120.	A hydraulic press uses a piston of 100 cm^2 to ex	kert a force	e of 10^7 dynes on water. The area of the
	other piston that supports a mass of 2000 kg is	(take g = 1)	10m/s/s)
	(A) 100 cm^2	(B)	10^9 cm^2
	(C) $2 \times 10^4 \text{ cm}^2$	(D)	$2 \times 10^{10} \text{ cm}^2$
121.	When kerosene and coconut oil of coeff. of vise	cosity 0.00	02 and 0.0154 Ns/m^2 are allowed
	through the same pipe, under same pressure dif	ference ar	nd same time collects 1 lit of coconut oil.
	The volume of kerosene that flows is		
	(A) 5.5 lit	(B)	6.6 lit
	(C) 7.7 lit	(D)	8.8 lit

122.	There is a circular hole in metal plate. When the pl(A) increased(C) unchanged	ate is heated the radius of the hole becomes(B) decreased(D) depends on metal
123.	Specific heat of a substance depends on 1. Nature of given to substance(A) Only one is correct(C) All are correct	 (B) Both 1 and 2 are correct (D) Only 1 and 3 are correct
124.	 In a give process dW=0, dq is <0 then for a gas (A) Temperature increases (C) Pressure increases 	(B) Volume decreases(D) Pressure decreases
125.	The efficiency of carnot engine depends on(A) Working substance(C) Source temperature	(B) Sink temperature(D) Both B and C
126.	A 200 turn coil of self inductance 30 mH carries a with each turn of coil. (A) 7.5×10^{-7} Wb (C) 3×10^{-7} Wb	current of 5 mA. Find the magnetic flux linked (B) 1.6×10^{-7} Wb (D) 1.5×10^{-7} Wb
127.	The instantaneous value of current in an AC circui time the current will be maximum? (A) 1/100 s (C) 1/500 s	t is I = 2 sin (100 π t + $\pi/3$) A. At what first (B) 1/200 s (D) 1 s
128.	What in electric system represents force in mechan (A) L (C) 1/C	ical system ? (B) I (D) q
129.	A capacitor of 1 μF is charged with 0.01C of electr (A) 30 J (C) 50 J	icity. How much energy is stored in it? (B) 40 J (D) 60 J
130.	An electromagnetic wave is travelling in vacuum v a medium having relative electric and magnetic per (A) $3/\sqrt{2} \times 10^8$ m/s (C) 2×10^8 m/s	 with a speed of 3 x 10⁸ m/s. Find the velocity in rmeability 2 and 1, respectively. (B) 1.5 x 10⁸ m/s (D) No change
131.	Trace the path of ray of light passing through a gla refractive index of glass is $\sqrt{3}$, find out the value of 60^{-60}	ss prism as shown in the figure. If the fangle of emergence from prism.
	(A) 30 (C) 60	(B) 45(D) 75
132.	Light wave from two coherent sources of intensitie the ratio of maxima and minima of the interference (A) 8:1 (C) 9:7	es in ratio 64:1 produces interference. Calculate pattern. (B) 64:1 (D) 81:49

133.	In young's experiment, the width of the fringes obtained with light of wavelength 6000 A° is 2 mm. What will be the fringe width, if the entire apparatus is immersed in a liquid of refractive index 1.33?		
	(A) 1 mm (C) 2 mm	(B) 1.5 mm(D) 2.5 mm	
134.	Unpolarised light is incident on plane glass surface degrees, so that the reflected and refracted rays are (A) 37 (C) 57	 ce. What should be the angle of incidence in e perpendicular to each other? (B) 47 (D) 67 	
135.	Determine the de-Broglie wavelength associated v difference of 100 V. (A) 1.227A° (C) 122.7A°	 (B) 12.27A° (D) 1227A° 	
136.	 A particle with rest mass m₀ is moving with veloc associated with it? (A) infinity (C) radio wave 	ity c. What is the de-Broglie wavelength(B) zero(D) X ray	
137.	Which among the following series gives visible lig(A) Lyman(C) Bracket	ght? (B) Balmer (D) None	
138.	Identify the logic operation performed by this circ A		
	(A) AND (C) NAND	(B) OR(D) NOR	
139.	The number of silicon atoms per m ³ is 5 x 10 ²⁸ . The per m ³ of arsenic and 5 x 10 ²⁰ atoms per m ³ of indian _i = 1.5 x 10 ¹⁶ m ⁻³ .	his is doped simultaneously with 5 x 10^{22} atoms ium. Calculate the number of holes, given that	
	(A) $4.54 \times 10^{9} \text{m}^{-3}$ (C) $1.5 \times 10^{16} \text{m}^{-3}$	(B) $4.95 \times 10^{22} \text{m}^{-3}$ (D) $5 \times 10^{28} \text{m}^{-3}$	
140.	Two charges $+5\mu C$ and $-5\mu C$ are placed 5 mm apa on the positive charge side along the axial line. (A) 4.5 x 10 ⁵ N/C (C) 4.5 x 10 ⁻⁵ N/C	art. Determine E at a point 10 cm from centre (B) 4.5×10^{5} NC (D) 4.5×10^{-5} NC	
141.	If the Gaussian surface is so chosen that there are electric field is due to (A) Only inside charges (C) All the charges	(B) Only outside charges(D) Cannot determine	

The following is a diagram showing the variation of E with r from centre of uniformly charge 142. spherical shell of radius R



An inductor of 5H carries a steady current of 2A. In what time if the current is made zero can a 144. 40V self induced emf be produced in the inductor. (A) 2

(A)	2s	(B)	IS
(C)	0.5s	(D)	0.25s

A cell of emf E and internal resistance r gives 0.5A with R=12 ohms and 0.25 with R = 25 ohms. 145. Its internal resistance in ohms will be

(A)	0.5	(B)	1
(C)	2	(D)	3

146.

Find current in the following circuit



147.	Two i distan	Two identical circular loops P and Q of radius r are placed in parallel planes with same axis at a distance of 2r. Find B at the midpoint of the axis between them if same current I flows through				
	both loops.					
	(A)	$\mu_0 I/2^{3/2} r$	(B)	$\mu_0 2I/2^{3/2}r$		
	(C)	$\mu_0 I/4\pi$ r	(D)	Cannot be determined		
148.	18. A block of mass 4 kg is kept on a rough horizontal surface. The coefficient of static fri 0.8. If a force of 19 N is applied on the block parallel to the floor, then the force of fric hotware the block and floor is:					
	(A)	19N	(B)	18 N		
	(C)	16N	(D)	9.8N		
149.	Current in a circuit falls steadily from 2A to 0A in 10 ms. Calculate L if emf induced is 200V.					
	(A)	1H	(B)	2Н		
	(C)	3H	(D)	4H		
150.	Self inductance of the air core inductor increases from 0.01 mH to 10 mH on introducing an iron core. What is the relative permeability of the core used?					
	(A)	500	(B)	800		
	(C)	900	(D)	1000		
151.	Amon	ing the following, the most stable complex is $\frac{1}{2}$	(=)	577 (2 1777) a ³⁺		
	(A)	$[Fe(H_2O)_6]^3$	(B)	$[Fe (NH_3)_6]^{3}$		
	(C)	$[Fe(C_2O_4)_3]$	(D)	$[Fe (Cl)_6]^{\circ}$		
152.	Which is the correct coordination number (C.N) and oxidation number (O.N) of the transition metal atom in $[Co(NH_3)_2(H_2O)_2Cl_2]^+$?					
	(A)	C.N=3, O.N=+1	(B)	C.N=4, O.N=+2		
1.52	(C) In a s		(D)	C.IN=0, O.IN=+3		
155.	In a so	B occupy one third of the octahedral voids	The fo	rmula of the solid is:		
	(A)	ABO ₂	(\mathbf{R})	A ₂ BO		
	(C)	AB ₃ O	(D)	$A_3B_3O_3$		
154.	On mi	On mixing acetone to methanol some of the hydrogen bonds between methanol molecules break.				
	Which	h of the following statements is correct about	the ab	At aposition mothenel		
	(A)	mixture will form minimum boiling	(Б)	acetone mixture will form maximum		
		azeotrope and show positive deviation		boiling azeotrope and show positive		
		from Raoult's law		deviation from Raoult's law		
	(C)	At specific composition methanol acetone	(D)	At specific composition methanol		
		mixture will form minimum boiling		acetone mixture will form maximum		
		azeotrope and show negative deviation from Raoult's law		boiling azeotrope and show negative deviation from Raoult's law		
155.	$K_{\rm H}$ value for argon, carbon dioxide, formaldehyde and methane gases are 40.39, 1.67, 1.83 X 10 ⁻⁵					
	and 0. solubi	and 0.413, respectively. The correct arrangement of these gases in the order of their increasing solubility is:				
	(A)	formaldehyde <methane<carbon dioxide<argon< td=""><td>(B)</td><td>formaldehyde< carbon dioxide <methane<argon< td=""></methane<argon<></td></argon<></methane<carbon 	(B)	formaldehyde< carbon dioxide <methane<argon< td=""></methane<argon<>		
	(C)	argon <carbon dioxide<<br="">methane<formaldehyde< td=""><td>(D)</td><td>argon <methane <carbon="" dioxide<br=""><formaldehyde< td=""></formaldehyde<></methane></td></formaldehyde<></carbon>	(D)	argon <methane <carbon="" dioxide<br=""><formaldehyde< td=""></formaldehyde<></methane>		
156.	The n nitrob	The number of faradays of electricity required for electrolytic conversion of the mole of nitrobenzene to aniline is:				
	(A)	3F	(B)	4F		
	(C)	6F	(D)	5F		

157.	 The positive value of the standard electrode potentia (A) This redox couple is a stronger reducing agent than H⁺/H₂ couple (C) Ag can displace H₂ from acid 	al of A (B) (D)	Ag ⁺ /Ag indicates that: This redox couple is a stronger oxidizing agent than H ⁺ /H ₂ couple Ag can displace H ₂ from base	
158.	 Milk is refrigerated in order to slow the rate of decoreaction rate is due to: (A) A decrease in surface area (C) A decrease in the fraction of particles 	(B) (D)	ition by bacterial action. The decrease in A decrease in \triangle H for the reaction The introduction of an alternative	
	possessing sufficient energy		pathway with greater activation energy.	
159.	 Which of the following statements is not correct? (A) The rate of a reaction decreases with passage of time as concentration of reactants decrease 	(B)	The instantaneous rate a reaction is same at any time during the reaction	
	(C) For a zero order reaction the concentration of reactants remains changed with passage of time	(D)	The rate of a reaction decreases with increase in concentration of reactant (s)	
160.	Which of the following gases shows the lowest adsorption per gram of charcoal? The critical temperatures are given in parenthesis:			
	(A) H_2 (33K) (C) SO_2 (630K)	(B) (D)	CH ₄ (190K) CO ₂ (304K)	
161.	 Freundlich adsorption isotherm is given by the expression x/m=kp^{1/n}. Which of the following statements are false? i. When 1/n=0, the adsorption is independent of pressure. ii. When n=0, the plot of x/m vs p graph is a line parallel to x axis. iii. When 1/n=0, the adsorption is directly proportional to pressure. iv. When n=0, plot of x/m vs p is a curve. 			
	(A) i and ii(C) i and iii	(B) (D)	ii and iv all are false	
162.	In the extraction of chlorine by electrolysis of an aqueous solution of sodium chloride, which of the following statements are true? i. $\triangle G^0$ for the overall reaction is positive ii. $\triangle G^0$ for the overall reaction is negative iii. E^0 for the overall reaction is positive iv. E^0 for the overall reaction is negative			
	(A) i and iv(C) ii and iii	(B) (D)	i and iii iii and iv	
163.	Which of the following pairs of ions are isoelectron (A) NO_2^+ and NO_3^- (C) XeO_3^{2-} and PCl_3	ic and (B) (D)	isostructural ? ClO ₃ ⁻ and ICl ₄ ⁻ ClO ₃ ⁻ and SO ₃ ²⁻	
164.	 Which of the following hydrides is the strongest red (A) NH₃ (C) AsH₃ 	lucing (B) (D)	agent? PH ₃ SbH ₃	

165.	Consider the reactions, i. $Zn + Conc. HNO_3 (hot) \longrightarrow Zn (NO_3)_2 + X + H_2O$ ii. $Zn + dil. HNO_3 (cold) \longrightarrow Zn (NO_3)_2 + Y + H_2O$ Compounds X and Y are, respectively				
	(A) (C)	N ₂ O, NO N ₂ , N ₂ O	(B) (D)	NO ₂ , NO ₂ NO ₂ , NO	
166.	When KMnO ₄ acts as an oxidizing agent in weakly alkaline medium, the oxidation number of manganese decreases by:				
	(A) (C)	1 3	(B) (D)	2 5	
167.	Acidified potassium dichromate solution turns green when Na ₂ SO ₃ is added to it due to the formation of:				
	(A) (C)	CrSO ₄ CrO ₄ ²⁻	(B) (D)	$Cr_2(SO_4)_3 Cr_2(SO_3)_3$	
168. The d-electron configurations of Cr^{2+} , Mn^{2+} , Fe^{2+} and Co^{2+} are d^4 , d^5 , d^6 and d^7 , respectively. Which one of the following complexes will exhibit minimum paramagnetic behavior numbers of $Cr=24_2$, $Mn=25$, $Fe=26$, $Co=27$)				$^{2+}$ are d ⁴ , d ⁵ , d ⁶ and d ⁷ , respectively. num paramagnetic behavior? (atomic	
	(A) (C)	$[Cr(H_2O)_6]^{2^+}$ $[Fe(H_2O)_6]^{2^+}$	(B) (D)	$\frac{[Mn(H_2O)_6]^{2^+}}{[Co(H_2O)_6]^{2^+}}$	
169.	When 2-Bromopentane is heated with potassium ethoxide in ethanol, the major product obtaine is:				
	(A) (C)	2-Ethoxypentane Cis-Pent-2-ene	(B) (D)	Pent-1-ene Trans-Pent-2-ene	
170.	Whick (A) (C)	h of the following undergoes nucleophilic sub Chloroethane Chlorobenzene	ostituti (B) (D)	ion exclusively by S _N ¹ mechnism? Isopropyl chloride Benzyl chloride	
171.	The number of possible stereoisomers for $CH_3CH=CHCH_2CH(Br)CH_3$ is: (A) 8 (B) 2 (C) 4 (D) 6				
172.	2-Met	thoxy-2-methylpropane on heating with HI pr	oduce	s: Mathyliadida and tart butyl alaabal	
	(\mathbf{R}) (\mathbf{C})	Methyl iodide and isobutene	(D)	Methanol and tet-butyl iodide	
173.	The le (A) (C)	east acidic compound among the following is o-Nitrophenol p-Nitrophenol	: (B) (D)	m-Nitrophenol Phenol	
174.	4. An alkene C_7H_{14} on reductive ozonolysis gives an aldehyde with formula C_3H_6O and a keton The ketone is:				
	(A) (C)	2-Butanone 3-Pentanone	(B) (D)	2-Pentanone Propanone	
175.	75. The increasing order of the rate of addition of HCN to the compounds i) Formaldehyde Acetone iii) Acetophenone iv) benzophenone			e compounds i) Formaldehyde ii)	
	(A) (C)	i <ii <="" iii<="" iv<br="">iv≤iii≤ ii≤ i</ii>	(B) (D)	iv< ii< iii < i iv< i< ii< iii	

176.	The ca (A)	arboxylic acid that does not undergo He CH ₃ COOH	ell-Vohlard- (B)	Zelinsky reaction is: (CH ₃) ₂ CHCOOH
	(C)	CH ₃ CH ₂ CH ₂ COOH	(D)	(CH ₃) ₃ CCOOH
177.	C ₂ H ₅ N	$NH_2 \xrightarrow{NaNO_2/HCl} X \xrightarrow{P/Br_2} Y \xrightarrow{N} (ex)$	$H_3 \longrightarrow Z$	
	In the (A) (C)	above sequence, Z is: cyanoethane methanamine	(B) (D)	ethanamide ethanamine
178.	The at	ttachment of which of the following gro	oup at para i	position in aniline will raise the K_{h}
	value (A) (C)	? -SO ₃ H -F	(B) (D)	-OH -Br
179.	Which	n of the following is an example of glob	oular proteir	1?
	(A) (C)	myosin keratin	(B) (D)	collagen haemoglobin
180.	Which	n one of the following is synthesized in	our body by	y sun rays?
	(A) (C)	Vitamin D Vitamin K	(B) (D)	Vitamin B Vitamin A
181.	Capro	lactum is the is the starting material for	the synthes	sis of
	(A) (C)	Terylene	(B) (D)	Nylon 10
182.	The sp	pecies which can serve as an initiator for	or cationic p	olymerization is
	(A) (C)	Lithium aluminium hydride Aluminium chloride	(B) (D)	Nitric acid BuLi
183.	Aspiri	in is an:	(
	(A) (C)	analgesic antimalarial	(B) (D)	antipyretic Both analgesic and antipyretic
184.	The e	quivalent mass of iron in the reaction 2	$Fe + 3Cl_2 - (D)$	→ 2FeCl ₃ is:
	(A) (C)	Same as atomic mass	(B) (D)	One fourth of its atomic mass
185.	Which	n of the following sets of quantum num	bers is corre	ect for an electron in 4f subshell?
	(A) (C)	n=4, l=3, m=4, s=+1/2 n=4, l=3, m=+1, s=+1/2	(B) (D)	n=4, l=3, m=-4, s=-1/2 n=3, l=2, m=-2, s=+1/2
186.	The co	orrect sequence of atomic radii is:		
	(A) (C)	Na>Mg>Al>Si Si>Al>Mg>Na	(B) (D)	Al>Si>Na>Mg Si>Al>Na>Mg
187.	In wh	ich of the following, the bond angle arc	ound the cen	tral atom is maximum?
	(A) (C)	NH ₃ PCl ₃	(B) (D)	NH4 ⁺ SCl ₂
188.	Which	n of the following molecule does not ex	ist	
	(A) (C)	NF ₃ PF ₅	(B) (D)	NF5 N2H4
	(-)	J		

189.	If heli (A)	um is allowed to expand in vacuum, it liberat It is an inert gas	tes hea (B)	t because It is an ideal gas
	(C)	Its critical temp. is low	(D)	It is a light gas
190.	i) H ₂ (g) + 1/2O ₂ (g) → H ₂ O(I)+ x KJ ii) H ₂ (g) + 1/2O ₂ (g) → H ₂ O(g) + y KJ; For the gireactions,			
	(A) (C)	x>y x=y	(B) (D)	x <y x+y=0</y
191.	If the respec (A) (C)	bond dissociation energies of XY, X_2 , Y_2 (all cively and $\Delta_f H$ of XY is -200KJmol ⁻¹ , the box 400 KJmol ⁻¹ 200 KJmol ⁻¹	diator nd diss (B) (D)	mic molecules) are in the ratio 1:1:0.5, sociation energy of X_2 will be: 300 KJmol ⁻¹ 100 KJmol ⁻¹
192.	What among (A) (C)	will be the correct order of vapour pressure o g these compounds water has maximum boili Water <ether<ethanol Ether<ethanol<water< td=""><td>f wate ng poi (B) (D)</td><td>er, ethanol and ether at 30^oC? Given that nt and ether has minimum boiling point. Water<ethanol<ether Ethanol<ether<water< td=""></ether<water<></ethanol<ether </td></ethanol<water<></ether<ethanol 	f wate ng poi (B) (D)	er, ethanol and ether at 30 ^o C? Given that nt and ether has minimum boiling point. Water <ethanol<ether Ethanol<ether<water< td=""></ether<water<></ethanol<ether
193.	Which consta	n of the following will occur if a 0.1M solution ant temperature? $[H^+]$ will decrease to 0.001M	on of a (B)	weak acid is diluted to 0.01M at
	(\mathbf{C})	Percentage ionization will increase	(D)	K_a will increase
194.	Which (A) (C)	n of the following species involves the transfer $MnO_4^{2^-} \rightarrow MnO_4^{-1}$ $MnO_4^{-1} \rightarrow MnO_2$	er of 5 (B) (D)	N _A electrons per mole of it ? MnO ₄ ⁻ → Mn ²⁺ CrO ₄ ²⁻ →Cr ³⁺
195.	30-vo	lume hyderogen peroxide means:		
	(A)	30% H ₂ O ₂ by volume	(B)	$30g$ of H_2O_2 solution containing 1g of it
	(C)	1 cm ³ of solution liberates 30 cm ³ of O_2 gas at STP	(D)	30 cm^3 of the solution contains one mole of H_2O_2
196.	The correct sequence of covalent character is represented by:			
	(A) (C)	LiCl <nacl<becl<sub>2 NaCl<licl< becl<sub="">2</licl<></nacl<becl<sub>	(B) (D)	BeCl ₂ <licl<nacl BeCl₂<nacl<licl< td=""></nacl<licl<></licl<nacl
197.	Which (A)	h of the following is known as pyrene? CCl_4	(B)	CS_2
	(C)	S ₂ Cl ₂	(D)	Solid CO ₂
198.	The m (A)	nost stable carbocation amongst the following (CH ₃) ₂ CH ⁺	; is: (B)	$Ph_{3}C^{+}$
	(C)	$CH_3CH_2^+$	(D)	CH ₂ =CH-CH ₂ ⁺
199.	The m	nolecule that will have dipole moment is:		
	(A) (C)	2,2-Dimethylpropane trans-2-Butene	(B) (D)	2,2,3,3-Tetramethylbutane
200.	Of the five isomeric hexanes, the isomer which can give two monochlorinated compound is: (A) = 2 N (A + A + A + A + A + A + A + A + A + A			
	(A) (C)	2,3-Dimethylbutane	(D) (D)	n-Hexane