2018 Tnpsc Science Questions In English

1.	The net gain of energy from one molecule of glucose during aerobic respiration is				aerobic respiration is	
	(A) 4 ATP	(B) 8 ATP		(C) 40 ATP	(D) 38 ATP	
2.	Which one of the foll	owing bio geo	chemica	al cycles is most o	dependent on bacteria?	
	(A) Water cycle		(B) Ca	rbon cycle		
	(C) Nitrogen cycle		(D) Ph	osphorous cycle		
3.	NH ₄ ⁺ ion is					
	(A) A conjugate acid	l	(B) A	conjugate base		
	(C) Neither an acid ne	or a base	(D) Bo	th an acid and a	base	
4.	Male hormone secret	ed by the testes	is			
	(A) Estrogen	(B) Progestero	one	(C) Prolactin	(D) Androgens	
5.	Which of the following	ng nitrogen – fe	rtilizers	has the highest i	nitrogen percentage?	
	(A) CaCN ₂	(B) Urea		(C) NH ₄ NO ₃	(D) (NH ₄) ₂ SO ₄	
6.	Packing fraction is					
	(A) Mass number / M	lass defect	(B) Ma	ass defect x Mass	number	
	(C) Mass defect / ma	ass number	(D) 1/	Mass defect x M	lass number	
7.	India's first Antidiabo	etic Ayurvedic o	drug lau	inched by CSIR i	s called	
	(A) MST-2	(B) MST-1		(C) XMU-MP	(D) BGR 34	
8.	2, 4 – D is used as					
	(A) Weedicide	(B) Vit	tamin	(C) Ferti	ilizer (D) Insecticide	
9.	What is the process b	y which the 6 c	arbon G	lucose converts	into 3 carbon pyruvic acid?	
	(A) Kreb's cycle		(B) Gl	ycolysis		
	(C) Phosphorylation		(D) Ele	ectron transport c	chain	
10.	are the	factors respons	ible for	blood coagulatio	on	
	(A) Platelets	(B) Eosinophi	ls	(C) Basophils	(D) Monocytes	
11.	The frequency of crossing over would be higher if					
	(A) Two genes are lo	cated closely				
	(B) Two genes are fa	ar apart on a cl	hromos	ome		
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Cytochromes are found in

 (A) Matrix of mitochondria
 (B) Cristae of mitochondria

 (C) Lysosomes
 (D) Outer wall of mitochondria
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The correct order of acid strength of HClO₄, HBr, HF and H₃PO₄ is 22. (A) $HClO_4 > HF > HBr > H_3PO_4$ (B) $HClO_4 > HBr > HF > H_3PO_4$ (C) $HClO_4 > HBr > H_3PO_4 > HF$ (D) $HBr > HF > HClO_4 > H_3PO_4$ 23. The Universal gate is (A) NAND gate (B) OR gate (C) AND gate (D) NOT gate 24. Match the following: (a) Sindri fertilizer 1. Sodium nitrate (b) Chile nitre 2. Calcium cyanamide (c) Nitrolim 3. Ammonium sulphate (d) Nangal fertilizer 4. CAN (a) (b) (c) (d) 2 1 (A) 4 3 **(B)** 3 1 2 4 (C) 4 3 1 1 2 4 3 (D) 25. Phase of menstrual cycle in human that lasts for 7-8 days is called (A) Luteal phase **(B) Follicular phase (C)** Menstruation (D) Ovulatory phase 26. Which of the following is used as explosive? (A) Mercuric oxide (B) Nitroglycerine (C) Graphite (D) Mercuric sulphide 27. Vitamin obtained from the sun light is (A) Vitamin A (B) Vitamin B (C) Vitamin C (D) Vitamin D 28. The Amalgam used in filling teeth is (A) Fe - Hg (B) Na - Hg(C) Zn – Hg (D) Cu - Hg29. The element which is essential for the synthesis of thyroid hormones is (A) Iron (B) Cobalt (C) Iodine (D) Manganese In household wiring, copper wire 2.05 mm in diameter is often used. Find the resistance of a 35.0 30. m long wire. Specific resistance of copper is $1.72 \times 10^{-8} \Omega$ - m.

(C) 0.18Ω

(A) 18Ω

(B) 1.8Ω

(D) 0.018Ω

31.	The principle used in lighting conductors is						
	(A) Corona discharge		(B) Self – induction				
	(C) Mutual induction	n (D)	Electro magenetic indu	ction			
32.	Relation between ele	ectric field and potent	tial				
	$(A) dV = \frac{-E}{dx}$	(B) $dV = \frac{-dx}{E}$	$(\mathbf{C}) \mathbf{E} = \frac{-dV}{dx}$	(D) $E = \frac{-dx}{dV}$			
33.	capacitance, if the d		plates be reduced to ha	citance of 10 μ F. what will be the alf and the space between them is			
	(A) 100 μF	$(B)~200~\mu F$	(C) 1 µF	(D) 400 μF			
34.	1 Wh (Watt hour) is	equal to					
	(A) $36 \times 10^5 \text{ J}$	(B) $36 \times 10^4 \text{ J}$	(C) 3600 J	(D) 3500 J			
35.	The resistivity range	of semi-conductors	is				
	(A) $10^{-6} - 10^{-8} \Omega m$	(B) $10^8 - 10^{14} \Omega m$	(C) $10^5 - 10^8 \Omega m$	(D) $10^{-2} - 10^4 \ \Omega m$			
36.	The unit of electro chemical equivalent						
	(A) kg ms ⁻¹	(B) kg m ⁻³	(C) kg m ⁻¹	(D) kg c ⁻¹			
37.	The metal having positive Thomson effect is						
	(A) Pt (B) A	g (C) Ni	(D) Hg				
38.	The colour of Fe(OH) ₃ colloid is						
	(A) Yellow	(B) Yellow Orange	e (C) Red	(D) Black			
39.	rms value of altering	g current is					
	(A) 0.707 Io	(B) 70.7 Io	(C) 0.636 Io	(D) 63.6 Io			
40.	In a acceptor circuit,	In a acceptor circuit, the value of impedance and current					
	(A) Impedance minimum, current maximum						
	(B) Impedance maximum, current minimum						
	(C) Both impedance and current minimum						
	(D) Both impedance	(D) Both impedance and current maximum					
41.	The frequency range	of visible light in ele	ectromagnetic spectrum	is			
	(A) $4 \times 10^{14} \text{ Hz} - 1 \times 10^{13} \text{ Hz}$ (B) $8 \times 10^{14} \text{ Hz} - 4 \times 10^{14} \text{ Hz}$						

(C) $3 \times 10^{11} \text{ Hz} - 1 \times 10^9 \text{ Hz}$

(D) $3 \times 10^7 \text{ Hz} - 3 \times 10^4 \text{ Hz}$

42. Which are true statements:

(I) The dark lines found in solar spectrum is called as Fraunhoffer lines

(II) Fraunhoffer lines are used identify elements present in sun's atmosphere

(A) I and II are true (B) II and III are true (C) I and III are true (D) I, II and III are true

Total energy of the electron (E_n) is half of the potential energy (E_p) . What will be the kinetic energy 43. (E_k) ?

 $(A) - E_n$

 $(B) + E_n$

 $(C) - 2 E_n$

(D) $+2 E_n$

In Thomson experiment the beam of electron remains undeflected when passed through the electric 44. field $E = 10^5$ V/m and the magnetic field is $B = 10^{-2}$ tesla. Calculate the velocity of the electron.

(A) 10^3 m/s

(B) 10^5 m/s

(C) 10^7 m/s

(D) 10^9 m/s

45. In Sommerfield atom model which one of the following atomic orbit is an elliptical orbit

(A) 1 s

(B) 2 s

(C) 2 p

(D) 3 d

The work function of zinc is 6.8 x 10⁻¹⁹ J. What is the threshold frequency for emission oof photo 46. electrons from zinc?

(A) $1.206 \times 10^{15} \text{ Hz}$ (B) $1.026 \times 10^{15} \text{ Hz}$ (C) $1.0026 \times 10^{15} \text{ Hz}$ (D) $1.026 \times 10^{14} \text{ Hz}$

Consider the following statement choose the correct answer from the codes given below. 47.

Assertion (A): According to relativity, the mass of the body changes with velocity.

Reason (R): Electrons accelerated in cyclotron with very high velocity acquire increased mass.

(A) (A) alone is correct and (R) is incorrect

(B) (A) and (R) are correct and (R) is the correct explanation of (A)

(C) (A) and (R) are incorrect

(D) (A) and (R) are correct but (R) is not the correct explanation of (A)

In one milligram of a substance is fully converted into energy, then the energy is 48.

(A) $9 \times 10^{16} \text{ J}$

(B) 1 J

(C) $9 \times 10^{10} \text{ J}$

(D) $3 \times 10^8 \text{ J}$

The half-life period of N¹³ is 10.1 minutes. It's life time is 49.

(A) 5.2 minutes

(B) 10.1 minutes

(C) 20.2 minutes

(D) Infinity

50. The energy liberated in proton – proton cycle is

(A) 26.7 eV

(B) 26.7 MeV

(C) 14.7 MeV

(D) 14.7 eV

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51.	Arrange the following particles in the increasing order of their rest masses					
	I. Proton	II. Electron		III. Neutron	IV. Photon	
	(A) II - IV - III - I	(B) IV – II- I	- III	(C) IV – II – III – I	(D) $II - IV - I - III$	
52.	The following Boolea	an expression re	present	s gate.		
	$Y = A + \bar{A}B$					
	(A) AND	(B) NAND		(C) OR	(D) NOR	
53.	Which of the following	ng are universal	gates?			
	(A) NOT gate and EX	K-OR gate	(B) OR gate and NOT gate			
	(C) AND gate and O	R gate	(D) No	OR gate and NAND g	rate	
54.	A sinusoidal carrier v 6 mV what is the amp				audio signal wave of amplitude	
	(A) 0.6 mV	(B) 0.3 mV		(C) 3 mV	(D) 6 mV	
55.	The principle of fiber	optical commu	nicatio	n is?		
	(A) Reflection		(B) Radio reflection			
	(C) Total internal re	eflection	(D) Tr	ansmission		
56.	Which one of the foll	owing pairs is n	ot corr	ectly matched regarding	g satellite communication?	
	(A) Geostationary sat	ellite	:- 36, 000 Km			
	(B) Commercial sate	llite	:- 6 GHz – 4 GHz			
	(C) First manmade	satellite	:- Aryabhatta			
	(D) Satellite commun	nication	:- Micro wave link repeater			
57.	When a current carry acting on it is?	ying conductor i	is place	ed along the direction	of the magnetic field, the force	
	(A) F = BI 1	$(\mathbf{B})\;\mathbf{F}=0$		(C) $F = BII \cos \theta$	(D) $F = BI 1 \tan \theta$	
58.	The ratio of Ne and H	He gases used in	He – N	le laser is		
	(A) 4:1	(B) $10^6:1$		(C) 1:4	(D) $1:10^6$	
59.	Write the type of link	ages between gl	lucose	and fructose in sucrose	?	
	(A) $C_1 - C_1$	(B) $C_1 - C_2$		(C) $C_1 - C_4$	(D) $C_1 - C_5$	

- 60. Write the correct example of Trisaccharides?
 - (A) Raffinose
- (B) Galactose
- (C) Starch
- (D) Sucrose

- Among the following which is used an anesthetic 61.
 - (A) Di methyl ether
- (B) Di ethyl ether
- (C) Di phenyl ether
- (D) Anisole



X and Y are

- (A) Methyl alcohol + phenetole
- (B) Ethane + benzene
- (C) Anisole + ethyl hydrogen sulphate
- (D) Anisole + methyl hydrogen sulphate
- What is the order of Boiling point of amines? 63.
 - (A) Secondary amine > Primary amine > Tertiary amine
 - (B) Secondary amine < Primary amine < Tertiary amine
 - (C) Secondary amine > Primary amine < Tertiary amine
 - (D) Primary amine > Secondary amine > Tertiary amine
- 64. Which one of the following organic compound, aldol-condensation reaction does no undergo?
 - (A) Acetaldehyde
- (B) Acetone
- (C) Benzophenone
- (D) Ethylalcohol
- Which compound does not undergoes haloform reaction? 65.
 - (A) Ethyl alcohol
- **(B) Methyl alcohol (C)** Iso-propyl alcohol
- (D) Acetone
- Which one of the following is the correct order of dipole moments for the three isomers of 66. dichlorobenzene?
 - (A) Ortho isomer < Meta isomer < Para isomer
 - (B) Ortho isomer > Meta isomer > Para isomer
 - (C) Para isomer < Ortho isomer < Meta isomer
 - (D) Meta isomer > Ortho isomer > Para isomer
- 67. Fumaric acid and Maleic acid are

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	(A) Optical isomers	(B) Conformers			
	(C) Geometrical isomers	(D) Ortho and para isomers	(D) Ortho and para isomers		
68.	The catalyst used in Bergius proces	s for the synthesis of petrol fro	om coal is		
	(A) CuCl2 (B) Cr2O3	(C) V ₂ O ₅	(D) Fe ₂ O ₃		
69.	Example of Lyophobic colloid is				
	(A) Sulphur in water (B) C	Gelatin (C) Protein	(D) Starch		
70.	What type of complex reaction is, b	promination of Bromobenzene	?		
	(A) Sequential reaction	(B) Side reaction			
	(C) Reversible reaction	(D) Chain reaction			
71.	The signs of ΔH and ΔS respective	ly for the following reaction			
	$\text{\rm Cl}_{2(g)} \to 2 \text{ cl}_{(g)}$				
	(A) -, - (B) -, + (C) +	(D) +, -			
72.	Why steam is passed to remove aw	ay the ammonia in Haber's pro	ocess		
	(A) Standardise pressure	(B) Standarddise temperatur	re		
	(C) Standardise equilibrium	(D) Maximum ammonia fo	ormation		
73.	In the reversible reaction				
	$2SO_{2(g)} + O_{2(g)} \leftrightarrow 2SO_{3(g)}$				
	Find the reaction between K_P and K_P	KC.			
	(A) $K_P = K_C \times RT$ (B) $K_P = K_C$	$(\mathbf{R}\mathbf{T})^2$ (\mathbf{C}) $\mathbf{K}_{\mathbf{P}}$ \mathbf{x} $\mathbf{R}\mathbf{T} = \mathbf{K}_{\mathbf{C}}$	(D) $K_P = K_C x (RT)^{-2}$		
74.	The metal having negative Thomso	n effect is			
	(A) Ag (B) Hg (C) S	n (D) Sb			
75.	$_{92}U^{235} + _{0}n^{1} \rightarrow {}_{56}Ba^{141} + {}_{36}Kr^{92} + {}_{30}$	$n^{I} + 200 \text{ MeV}$			
	The above said reaction is a				
	(A) Nuclear fission reaction	(B) Nuclear fission reaction			
	(C) Spallation reaction	(D) Equilibrium reaction			
76.	Glass is an example for				

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	(A) Gaseous state	(B) Liquid state	(C) Solid state	(D) Vitreous state			
77.	Which is used as a po	ower source in long mis	ssion space probes?				
	(A) U – 235	(B) U – 232	(C) Pu – 238	(D) Pu – 241			
78.	Which one is used as	fuel in Nuclear reaction	n in power plants?				
	(A) $92U^{235}$	(B) $_{92}U^{236}$	(C) $_{92}U^{239}$	(D) $_{92}U^{234}$			
79.	Which one of the foll	owing is used in makir	ng ointment for curing	skin diseases?			
	(A) AgNO ₃	(B) AgBr	(C) ZnCO ₃	(D) AgCl			
80.	Which is the bond ler	ngth of Br ₂ molecule?					
	(A) 1.54	(B) 2.28	(C) 0.74	(D) 1.44			
81.	The order of ionization	on energy					
	(A) s	(B) s > p > d > f	(C) $s > d > p > f$	(D) $s < d < p < f$			
82.	The device based on	Wheatstone's bridge is					
	(A) Wattmeter	(B) Potentiometer	(C) Bridge rectifier	(D) Metre bridge			
83.	The intra-molecular h	nydrogen bonding is pr	esent in				
	(A) Salicylic acid	(B) Water	(C) M-nitrophenol	(D) P-nitrophenol			
84.	Among the following	which will produce ox	xocations				
	(A) Lanthanides	(B) Actinides	(C) Noble gases	(D) Halogens			
85.	How do you observed	d the respiration by Gar	nong's respiroscope?				
	(A) CO ₂ released	(B) Ra	uise of water				
	(C) Raise of KOH le	evel (D) O ₂	released				
86.	Which part is used in Test tube funnel experiment?						

87. Binomial of groundnut is

(A) Ipomea

(A) Oryza sativa

(B) Arachis hypogea

(C) Hydrilla

(C) Gossypium barbadense

(D) Tectona grandis

88. Mental and physical stress relaxing drug ginseng is obtain from the plant

(B) Ichornia

(D) Marsilia

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	(A) Panax ginseng		(B) Chinchona Officinalis		
	(C) Papaver Somniferum		(D) Ephedra Sinica		
89.	A tissue is a				
	(A) Single cell		(B) Two cells		
	(C) Group of cells		(D) Three cells		
90.	The terminal part of the chron	nosome	e is		
	(A) Satellite (B) Centrome		re (C) Telomere	(D) Kinetochore	
91.	Clover leaf model of RNA is	called			
	(A) tRNA (B) sRl	NA	(C) mRNA	(D) rRNA	
92.	The clover leaf structure of tRNA is		suggested by		
	(A) R.W. Holley		(B) Watson and Crick		
	(C) Wilkins and Franklin		(D) Messelson and Stahl's		
93.	What is the name of the book publish		hed by the Carlous Linnaeus?		
	(A) Species Plantarum		(B) Genera Plantarum		
	(C) Origin of species		(D) Die Naturalichan Pflanzen Familien		
94.	In human being's fertilization	of ovu	ım in which part?		
	(A) Corpus luteum		(B) Vaginal tube		
	(C) Ampulla of uterine tube	;	(D) Cervix		
95.	Arrange the following in correct order:				
	I. Sub class: Monochlamydeae		II. Family: Euphorbiaceae		
	III. Class: Dicotyledonae		IV. Series: Unisexuales		
	(A) $III - I - IV - II$ (B) $I -$	II – III	-IV (C) $IV - III - II - I$	(D) $II - III - I - IV$	
96.	Statement I: In the cerebral cortex the left hemisphere is connected to the sensory receptors of right half of the body.				
	Statement II: In the cerebral left half of the		the right hemisphere is connected to the sensory receptors of		
	(A) I is correct II is incorrect		(B) I and II are correct		

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	(C) I is incorrect II is	s correct (I	D) I and II are incorrect	
97.	The another name of	f Vitamin 'D' is		
	(A) Niacin	(B) Pyridoxine	(C) Calciferol	(D) Ergosterol
98.	Water loss happens t	through expiration	is	
	(A) 400 ml	(B) 600 ml	(C) 1400 ml	(D) 100 ml
99.	Myasthenia Gravis is	s a		
	(A) Vitamin deficier	ncy disease (E	3) Infectious disease	
	(C) Kidney disorder	(I	D) Autoimmune disease	
100.	What is the first anti	biotic discovered in	n the world?	
	(A) Ampicillin	(B) Tetracyclin	(C) Penicillin	(D) Streptomycin
101.	Pain during urination	n and yellow discha	arge from the urethra of	male are the symptoms of
	(A) Syphilis	(B) Plague	(C) Gonorrhea	(D) Pneumonia
102.	Major Histocompatil	bility Complex (MI	HC) gene of mouse is lo	cated in which chromosome?
	(A) 74 th chromosom	e (B) 4 th chromoso	ome (C) 6 th chromoson	me (D) 5 th chromosome
103.	Assertion I: The dis due to involuntary			by uncontrolled jerking of the body
	Assertion II: Hunti	ington's chorea is c	caused by autosomal reco	essive gene in human.
	(A) I and II are incom	rrect (F	B) I is correct II is incom	rrect
	(C) I and II are corre	ect (I	D) I is incorrect II is corr	rect
104.	In Karyotyping proc	ess chemical colch	icine is used to stop mito	osis at which stage?
	(A) Prophase	(B) Metaphase	(C) Anaph	ase (D) Telophase
105.	What method is used wastes?	l to dispose large ar	mount of water carrying	relatively small amount of chemical
	(A) Surface impour	ndments (E	B) Landfills	
	(C) Incineration	(I)	D) Bio-remediation	
106.	What is the incubation	on period of fertiliz	ed hen's egg?	
Learn	(A) $16 - 18$ days ing Leads To Ruling	(B) 20 – 21 days	(C) 24 – 25 days	(D) 21 – 22 days Page 11 of 48

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107.	Milk of Jersey cow has a characteristic yellow colour due to the high content of which of the following?				
	(A) Haemoglobin	(B) Melanin	(C) Carotene	(D) Xanthophyll	
108.	During brooding of house?	chicken how much of	floor space has to be	provided per chicken in poultry	
	(A) 500 sq.cm	(B) 100 sq.cm	(C) 200 sq.cm	(D) 400 sq.cm	
109.	In the case of insulat	ors, as the temperature	decreases, resistance		
	(A) Decreases	(B) Increases	(C) Remains constan	t (D) Becomes zero	
110.	A toaster operating a	t 240 V has a resistanc	te of 120 Ω , the power	is	
	(A) 400 W	(B) 2 W	(C) 480 W	(D) 240 W	
111.	The period of rotatio	n of a charged particle	in a uniform magnetic	field does not depend upon	
	(A) Charge	(B) Magnetic inducti	ion (C) Velocity	(D) Mass	
112.	Which of the followi	ng statements are true	?		
	Current sensitivity of a galvanometer can be increased by				
	(I) Increasing the number of turns in the coil				
	(II) Increasing the ma	agnetic induction			
	(III) Decreasing the a	area of the coil			
	(IV) Increasing the c	ouple per unit twist of	the suspension wire		
	(A) I, II	(B) II, III	(C) III, IV	(D) I, IV	
113.	In a coil of radius 10 field at the center of		arrying a current of 1 A	A, the magnitude of the magnetic	
	(A) $2 \pi \times 10^{-4} \text{ T}$	(B) $4 \pi \times 10^{-4} \text{ T}$	(C) $3 \pi \times 10^{-6} \text{ T}$	(D) $5 \pi \times 10^{-6} \text{ T}$	
114.	In a step up transform	mer, the transformer ra	tio k is		
	(A) $k < 1$	(B) $k = 1$	(C) $k > 1$	(D) $k = 0$	
115.	Pick out the wrong s	tatement. In transforme	er energy losses		
	(A) Hysteresis loss c	an be minimized by us	ing silicon steel		
	(B) Copper loss can be minimized by using thin wires				

	(C) Eddy current loss can be minimized by stelloy							
(D) Copper loss can be minimized by using thick wires								
116.	In an AC circuit with	a capacitor only, the	current will be					
	(A) Leading voltage	by π phase difference						
	(B) Leading voltage	by $\pi/2$ phase differen	nce					
	(C) Lagging behind	the voltage by π phase	difference					
	(D) Lagging behind	the voltage by $\pi/2$ phase	se difference					
117.	Which of the following	ng rays are travelling	with velocity of light?					
	(I) α-rays	(II) β-rays	(III) γ-rays	(IV) X-rays				
	(A) I and II	(B) II and III	(C) III and IV	(D) I and IV				
118.	If λ_x , λ_{uv} , λ_m are wa following is correct?	_	iv rays and microwave	es respectively then which of the				
	(A) $\lambda_x = \lambda_{uv} = \lambda_m$	(B) $\lambda_x > \lambda_{uv} > \lambda_m$	(C) $\lambda_x < \lambda_{uv} < \lambda_m$	(D) $\lambda_{uv} > \lambda_m = \lambda_x$				
119.	Atomic spectrum sho	ould be						
	(A) Pure line spectr	rum (B) E	mission band spectrum	1				
	(C) Absorption line s	spectrum (D) A	Absorption band spectru	ım				
120.	The wave number fo	r Balmer series at long	wavelength limit					
	$(A) R \qquad (B) R$	/4 (C) 3 R/24	(D) 5 R/36					
121.	Which of the following	ing statements are true	?					
	(I) The cathode rays	are a stream of electro	ns					
	(II) The elliptical orb	oits of electrons in the	atom were proposed by	de Broglie				
	(III) Canal rays can p	produce fluorescence						
	(A) I and II	(B) II and III	(C) I, II and III	(D) I and III				
122.	The equation showing	g relation between cur	rents in a transistor cir	cuit is				
	$(\mathbf{A})\;\mathbf{I}_{\mathrm{E}}=\mathbf{I}_{\mathrm{B}}+\mathbf{I}_{\mathrm{C}}$	(B) $I_C = I_B + I_E$	(C) $I_B = I_E + I_C$	(D) $I_E = I_B - I_C$				

Which of the following diodes is operated in a reverse bias made?

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123.

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	(A) P – N junction	(B) Zener	(C) Tunnel	(D) I	LED
124.	Which of the following	ng statements	are true?		
	I. Photoelectric effec	t can be explai	ned on the basis of	quantum tl	heory of light
	II. The photoelectric	effect is instan	taneous process		
	III. To produce large high work function n		toelectrons the cath	ode of pho	tosensitive material is coated with
	(A) I, II	(B) II, III	(C) I, III		(D) I, III, III
125.	Which of the following	ng statements	are FALSE?		
	I. Nuclear reactor is b	pased on the pr	rinciple of uncontro	lled fission	reaction
	II. Atom bomb is bas	sed on the princ	ciple of uncontrolle	d fusion re	action
	III. Hydrogen bomb	is an example	for nuclear fusion re	eaction	
	(A) I and II	(B) II and III	(C) I and	III	(D) I, II and III
126.	In α-decay, the change	ge that occurs i	n the daughter elem	nent is	
	(A) Atomic number of	decreases by or	ne (B) Mass	number in	creases by four
	(C) Proton number re	emains the sam	e (D) Neut	ron numb	er decreases by two
127.	Since the input imped	dance of an ide	eal operational amp	lifier is inf	inite
	(A) Its input curren	t is zero			
	(B) Its output resistar	nce is high			
	(C) Its output voltage	e becomes inde	pendent of load res	istance	
	(D) It become a curre	ent controlled o	levice		
128.	In super let FM rece	iver if the inco	oming frequency is	150×10^3	KHz what will be the frequency

(C) 160.7 KHz

In a broadcasting studio a 1000 KHz carrier is modulated by an audio signal of frequency range 100

– 5000 Hz what are the maximum and minimum frequencies of USB and LSB?

(A) 160.7 Hz

129.

produced by local oscillator?

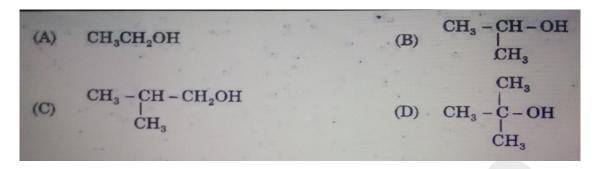
(B) 160.7 MHz

(B) 10.05 MHz, 10.001 MHz and 9.999 MHz, 9.95 MHz

(A) 1005 Hz, 1000.1 Hz and 999.9 Hz, 995 Hz

(D) 167 KHz

	(C) 1005 KHz, 1000.1 KHz and 999.9 KHz, 995 KHz				
	(D) 1.005 KHz, 1.0001 KHz and 0.9	999 KHz, 0.995 KHz			
130.	The compounds sodium benzoate an	d potassium meta-bisulphate	are used as		
	(A) Artificial sweetening agent	(B) Food preservative			
	(C) Antibiotic	(D) Dyes			
131.	Which of the following act as the pro-	opellents for rocket motors us	sed in space vehicles?		
	(A) Liquid O ₂ (B) Liquid H	(C) Liquid N ₂	(D) Liquid propylene		
132.	What is the name of the solution con	taining equal molecules of D	O(+) glucose and D(-) glucose?		
	(A) Grape sugar	(B) Cane sugar			
	(C) Invert sugar	(D) Non – reducing sugar			
133.	What product is formed after 2 mole	of aniline treated with carbo	n-disulphide?		
	(A) S – diphenyl thio urea	(B) S – phenyl thio urea			
	(C) S – triphyhyl thio urea	(D) S – diphenyl urea			
134.	Which one of the following compound	nd react with Grignard reage	nt to form carboxylic acid?		
	(A) Formaldehyde (B) Acetaldeh	yde (C) Acetone (D) (Carbon dioxide		
135.	Which one of the following compound	nd is in wintergreen oil?			
	(A) Methyl acetate	(B) Methyl formate			
	(C) Methyl salicylate	(D) Acetyl salicylic acid			
136.	Phenol reacts with formaldehyde give	res			
	(A) Bakelite	(B) Malechite green			
	(C) Malonic acid	(D) Tincture benzoin			
137.	Oxidation of glycerol with bismuth r	nitrate which gives			
	(A) Glyceric acid (B) Glycerald	ehyde (C) Mesoxalic acid	(D) Oxalic acid		
138.	Which one of the following does not have α – hydrogen				



Ans: D

- 139. Which one of the following reaction is not feasible?
 - (A) $Zn + H_2SO_4 \rightarrow ZnSO_4 + H_2$
- (B) $Cu^{2+} + H_2 \rightarrow Cu + 2H^+$
- (C) $Cu + H_2SO_4 \rightarrow CuSO_4 + H_2$
- (D) $Zn + CuSO_4 \rightarrow ZnSO_4 + Cu$
- 140. Ionic product of water at 298 K is
 - (A) $K_w = 1 \times 10^7 \text{ mol}^2 \text{ dm}^{-6}$
- (B) $K_w = 1 \times 10^{-7} \text{ mol}^2 \text{ dm}^{-6}$
- (C) $K_w = 1 \times 10^{14} \text{ mol}^2 \text{ dm}^{-6}$
- (D) $K_w = 1 \times 10^{-14} \text{ mol}^2 \text{ dm}^{-6}$
- 141. Tyndall effect is _____ kind property of colloids.
 - (A) Kinetic property
- (B) Electrical property
- (C) Chemical property
- (D) Optical property
- 142. Unit of rate constant of a reaction can be calculated using the formual
 - (A) $Mol^{(1-n)} lit^{(n-1)} Sec^{-2}$
- (B) lit⁽¹⁻ⁿ⁾ Mol⁽ⁿ⁻¹⁾ Sec⁻¹
- (C) $Mol^{(1-n)} lit^{(n-1)} Sec^2$
- (D) lit⁽ⁿ⁻¹⁾ mol⁽¹⁻ⁿ⁾ Sec⁻¹
- 143. Which one of the following statement is correct?
 - (A) Entropy of the Universe remains constant, energy of the universe remains constant
 - (B) Entropy of the Universe tends to a maximum, energy of the universe tends to a maximum
 - (C) Entropy of the universe tends to a maximum, energy of the universe remains constant
 - (D) Energy and entropy of the universe tends to a minimum
- 144. An example of a complex compound having coordination number 4
 - (A) $K_4[Fe(CN)_6]$
- (B) $[Co(en)_3]Cl_3$
- (C) $[Co(en)_3]Cl_3$
- (D) $[Cu(NH_3)_4]Cl_2$
- 145. Which of the following statement is correct with respect to Central metal atom?

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(A) Accepts electron (B) Accepts the pair of electron (C) Donate electron (D) Donate pair of electron 146. Pick the complex used as anti-tumour drug. (A) $cis-[Pt(NH_3)_2Cl_2]$ (B) trans- $[Pt(NH_3)_2Cl_2]$ (D) trans- $[Pd(NH_3)_2(NO_2)_2]$ (C) $cis-[Pd(NH_3)_2(NO_2)_2]$ Which one of the following is example of metal deficiency detect? 147. (A) NaCl (B) AgCl (C) CsCl (D) FeS 148. What is General electronic configuration of the transition elements? (A) $(n-1)d^{0-10} ns^{1-2}$ (B) $(n-1)d^{1-10} ns^{1-2}$ (C) $(n-1)d^{1-5} ns^2$ (D) $(n-1)d^0 ns^1$ 149. Choose the wrong statement regarding K₂Cr₂O₇ (A) It is a powerful oxidizing agent (B) It is used in training industry (C) It is soluble in water (D) It reduces ferric sulphate to ferrous sulphate 150. The shape of PCl₅ is (A) Pyramidal (B) Trigonal bipyramidal (C) Linear (D) Tetrahedral 151. Match the following: Alloy Composition (a) Bronze 1. Cu = 87, Sn = 10, Zn = 3(b) Brass 2. Cu = 75 - 90, Sn = 10 - 253. Cu = 60 - 80, Zn = 20 - 40(c) Nichrome (d) Gun metal 4. Cr = 15, Ni = 60, Fe = 25(a) (b) (c) (d) **(A)** 3 4 1 (B) 3 2 (C) 4 2 1 3 1 2 3 4 (D) 152. What is the shape of p-orbitals?

(B) Clover leaf shape

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(A) Spherical

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(D) (B) or (C)

(C) Dumb-bell

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153.	3. Assertion (A): Inter molecular hydrogen bonding is formed between the two molecules of the sam or different compounds.							
	Reason (R): Hydrogen bonding is possible when a six or five membered rings can be formed.							
	 (A) Both (A) and (R) are true and (R) is the correct explanation of (A) (B) Both (A) and (R) are true but (R) is not the correct explanation of (A) (C)(A) is true but (R) is false (D)(A) is false, but (R) is true 							
154.	Some of the light sensitive seeds can germinate by the treatment of hormone is							
	(A) A	uxin		(B) E	Ethylene	(C) Gibbberellin	(D) Cytokinin	
155.	The g	as evol	ved dur	ing resp	piration is			
	(A) O	xygen		(B) H	Iydrogen	(C) Nitrogen	(D) Carbon-dioxide	
156.	Which	h part o	f the pla	ant is m	ost important ir	n photosynthesis?		
	(A) R	oot		(B) S	tem	(C) Leaves	(D) Flowers	
157.	The fi	unction	of cyto	kinin is	increase			
	(A) C	ell elon	gation	(B) F	Truit initiation	(C) Cell division	(D) Differentiation	
158.	Clonal selection is from							
	(A) Sexual reproduction				(B) Vegetative propagation			
	(C) External characters of plant			lant	(D) Based on gene structure			
159.	Match	n the fol	llowing					
		Name	e of the	organis	sm	Haploid set of chromosome		
	(a) Arabidopsis thaliana(b) Paddy(c) Garden pea(d) Sugar cane				1. 7 2. 5 3. 40 4. 12			
		(a)	(b)	(c)	(d)			
	(A)	2	4	1	3			
	(B)	1	2	3	4			
	(C)	3	2	4	1			
	(D)	4	1	2	3			

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160.	A weed plant has been engineered to produce a biodegradable plastics. (Poly hydroxyl butyrate or PHB)						
	(A) Mouse – eared cress (B) Ze	a Mays	(C) Oryza Sativ	va (D) Avena Sativa			
161.	C ₄ pathway is take place in						
	(A) Leaf of mesophyll and bundle	sheath cells	(B) Leaf of me	sophyll cell			
	(C) Leaf of bundle sheath cell		(D) All part of	leaf			
162.	The Osteoscleriods are seen in						
	(A) Seed coat of crotolaria	(B) Seed coat	t of Pigum				
	(C) Pulp of Pyrus	(D) Petioles o	of Banana				
163.	Which is called as libriform fibers?						
	(A) Xylem fibers	(B) Pholem fi	bers				
	(C) Sclerenchyma fibers	(D) Xylem pa	renchyma				
164.	This is a Dead Tissue						
	(A) Parenchyma (B) Collenchy	yma (C) So	clerenchyma	(D) Cholorenchyma			
165.	Statement I: In Myopia, light is fo	cused in front of	of the retina.				
	Statement II: Myopia can be correct	cted by placing	a convex lens in	front of the eye.			
	(A) I and II are correct	(B) I is incorr	ect II is correct				
	(C) I and II are incorrect	(D) I is corre	ct II is incorrec	t			
166.	Each gram of carbohydrate is capabl	e of yielding en	nergy equivalent	of			
	(A) 9.3 Calories (B) 4.1 Calor	ies (C) 8.2	2 Calories	(D) 7.1 Calories			
167.	Which one of the following is a prot	ozoan disease?					
	(A) African sleeping sickness	(B) Measles					
	(C) Cholera	(D) Typhoid 1	fever				
168.	Match the following:						
	(a) Cholera 1. Yersinia pe	stis					
	(b) Plague 2. Neisseria g	onorrhea					

(C) Tilapia Mossambica (D) Labeo Rohita

176. Match the following.

(a) Colpscopy 1. Joints such as knee

(b) Gastroscopy 2. Colon and large intestine

Match the following:

183.

(C) Interaction of IR radiation with oxygen

(D) Interaction of oxygen and water vapour

(A)

(a)

3

(c)

2

(b)

(d)

1

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	(B)	2	1	4	3	

- (C) 3 1 2 4
- (D) 4 3 2 1
- 189. Plants and animals living in an area constitutes
- (A) Plantation (B) Community (C) Population (D) Ecosystem

 190. Two spheres of radii r₁ and r₂ cm are joined by a wire and a total charge q is given to them. If q₁ and
 - q₂ be their individual charges, then $(A) q_1 = q_2 \qquad (B) \frac{q_1}{q_2} = \frac{r_1}{r_2} \qquad (C) \frac{q_1}{q_2} = \frac{r_2}{r_1} \qquad (D) q_1 = \frac{r_1}{q} \text{ and } q_2 = \frac{r_2}{q}$
- 191. The potential barrier of germanium PN Junction is
 - (A) 1.1 eV (B) 0.7 V (C) 0.3 V (D) 1.1 V

(B) Isobars

192. The nuclei ${}_6C^{13}$ and ${}_7N^{14}$ can be described as

(A) Isotones

- (C) Isotopes of carbon (D) Isotopes of nitrogen
- 193. Which of the following Noble gas is used for Inflating Aeroplane tyres?
 - (A) Helium (B) Neon (C) Argon (D) Xenon
- 194. Inter molecular hydrogen bonding is present in
 - (A) O-nitrophenol (B) Water (C) Salicylic acid (D) Salicylaldehyde
- 195. Statement: There is passive movement of nearly 70% blood from auricle into ventricle. Remaining 30% is pumped into ventricles by arterial contraction

Reason: Opening of the atrio-ventricular valves

- (A) Statement is correct. Reason is wrong
- (B) Statement and reason are correct
- (C) Statement and reason are wrong
- (D) Statement is correct but the reason is not explaining the statement
- 196. Fog is a colloidal solution of
 - (A) Gas in Liquid (B) Liquid in gas (C) Gas in solid (D) Solid in gas
- 197. A permanent birth control method in female is
 - (A) Copper T (B) Tubectomy

Scien	ce			Р	repared	By www.winmeen.com		
	(C) Cervical cap		(D) C	Contraceptive pills				
198.	Which vitamin is know	own as "Sunshi	ne vitar	min"?				
	(A) Vitamin A	(B) Vitamin	D	(C) Vitamin	Е	(D) Vitamin K		
199.	Which of the followi	ng are the gase	ous pla	nets?				
	(A) Mercury, Earth	(B) Venus, M	Iars	(C) Saturn, Neptur	ne (D) Pl	uto, Earth		
200.	The hormone renin is	s produced by t	he					
	(A) Pancreas	(B) Gall Blad	lder	(C) Liver	(D) K	idneys		
201.	The system of unit ac	ccepted univers	ally are	,				
	(A) CGS	(B) FPS	(C) N	IKS (or) SI units		(D) HKS		
202.	'Bunsen burner' wor	ks, based on th	e princi	ple of				
	(A) De Morgan theorem (B) Bernoull's theorem							
	(C) Surface Tension		(D) Photo conductivity					
203.	The compound forme	ed when aniline	e is heat	ted with Fuming sulpl	huric acid	at 353K is		
	(A) p-amino benzen	e sulphonic ac	eid					
	(B) o-amino benzene	e sulphonic acid	l					
	(C) m- amino benzer	ne sulphonic ac	id					
	(D) p-nitro benzene sulphonic acid							
204.	Find the incorrect statement:							
	I. Ozone depletion will affect crop yield							
	II. Ozone depletion v	will not cause d	amage 1	to fish larvae				
	III. Ozone depletion	will cause skin	cancer	in man				
	(A) II only	(B) I only		(C) III only	(D) I,	II and III are incorrect		
205.	Which salt is used in	Test Tube funi	nel expe	eriment?				
	(A) Pottassium chlor	ride	(B) Se	odium bi carbonate				
	(C) Sodium carbonat	te	(D) S	odium chloride				

Which of the following is male accessory reproductive glands in mammals?

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206.

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	(A) Gastric gland (B) Mushroom shaped gland						
	(C) Prostate gland	(D) In	guinal gland				
207.	Who discovered Rh f	actor?					
	(A) James Watson	(B) Robert Hook	(C) Landsteiner Car	rl (D) William Harvey			
208.	Haemoglobin, haemo	cyanin, serum, albumi	n are type o	f proteins.			
	(A) Regulatory	(B) Transport	(C) Storage	(D) Protective			
209.	Exhibition of superior	rity by a hybrid over b	oth of its parents is cal	led			
	(A) Heterosis	(B) Hybridization	(C) Hypostatis	(D) Recessive			
210.	Polymerization of wh	ich one of the followir	ng monomers produces	as synthetic rubber?			
	(A) 1, 3-butadiene	(B) Acrylonitrile	(C) Vinyl chloride	(D) Propylene			
211.	Which of the following	g rocks is different from	m the remaining three o	on the basic of its mode of origin?			
	(A) Limestone	(B) Marble	(C) Sandstone	(D) Shale			
212.	An ester used as med	icine is					
	(A) Ethyl acetate	(B) Methyl salicylate	e(C) Ethyl benzoate	(D) Methyl benzoate			
213.	Which organic compo	ounds polymerize to fo	orm the polyester Dacro	on?			
	(A) Propylene and eth	nylene glycol (B) Te	erethalic acid and ethyl	ene glycol			
	(C) Benzoic acid and	ethanol (D) Di	imethyl terephalate a	nd ethylene glycol			
214.	The fertilizer which is	s called as 'nitrolim' is	3				
	(A) Super phosphate	(B) Ca	alcium ammonium nitra	ate			
	(C) Calcium cyanan	nide (D) So	odium nitrate				
215.	What type of mirror i	s used in solar cookers	3?				
	(A) Plane mirror	(B) Convex mirror	(C) Concave mirror	(D) Bifocal mirror			
216.	Why the wings of an acurved?	aeroplane are shaped w	vith lower surface being	g flat and the upper surface being			
	(A) To reduce vibration	ons					
	(B) To make difference in pressure to lift the plane vertically						

1

1

4

3

1

3

2

2

2

3

(A)

(B)

(C)

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	(D)	3	4	1	2			
222.	Matc	h the fo	ollowing	g:				
		Revo	olution			Production		
	(a) Black Revolution(b) Grey Revolution(c) Pink Revolution(d) Silver fiber Revolution				 Prawns, Onions Cotton Petroleum production Fertilizers 			
		(a)	(b)	(c)	(d)			
	(A)	1	2	3	4			
	(B)	4	2	1	3			
	(C)	3	4	1	2			
	(D)	3	4	2	1			
223.	Betat	ron is a	device	for acc	elerating	ŗ		
	(A) E	Electro	n	(B) N	Neutron	(C) Proton	(D) Meson	
224.	Whic	h of the	e follow	ing seis	mic way	ves has the shortest wavele	ength?	
	(A) P	-wave	S	(B) S	S-waves	(C) L-waves	(D) Pg-waves	
225.	Matc	h List I	with L	ist II co	rrectly a	nd select your answer usin	g the codes given below:	
		List	I			List II		
	(b) N	astrono lewton falileo	mical u	nit	2. Dis	otion of objects stance between the earth a stance travelled by light	nd sun	

4. Law of gravitation

- (d) Light year
 - - (b) (a)
- (A)
- **(B)**
- (C) 2
- (D) 3
- 2
 - 1 3

(d)

4

(c)

- 4
- 4 1
- 226. Glass is affected by which acid?

2

Scien	ce		Pr	repared By <u>www.winmeen.com</u>
	(A) HCl	(B) H ₂ SO ₄	(C) HF	(D) HNO ₃
227.	What is the percentage	ge of nitrogen in urea?		
	(A) 50% Nitrogen	(B) 46% Nitrogen	(C) 80% Nitrogen	(D) 90% Nitrogen
228.	A solution whose pH	I value is 4. Then the so	olution turns	
	(A) Red litmus into b	olue (B) B	lue litmus into red	
	(C) Keeps red litmus	as red (D) K	eeps blue litmus as blu	ie
229.	are bio	indicators of environme	ental contamination	
	(A) Parasites	(B) Saprophytes	(C) Fungi	(D) Lichens
230.	Which is the instrum	ent used to measures re	elative density of milk	to determine purity?
	(A) Bactometer	(B) Lactometer	(C) Pyrometer	(D) Hydrometer
231.	The of the	testis provide nourishi	ment to the developing	g sperms.
	(A) Epididymis	(B) Testis	(C) Sertoli cells	(D) Urethra
232.	A blob of oil which l	nas been weathered after	er floating on the ocea	n is
	(A) Crude oil	(B) Oil Spills	(C) Tar Balls	(D) Oil Wastes
233.		es 10 kg and 20 kg resp netic energy of these tw		eight of 10 m to ground surface in
	(A) 1:1	(B) 1:2	(C) 1:4	(D) 1:8
234.	If velocity of sound i	s 300 m/s then taken to	travel a distance equi	ivalent to light in 1 sec
	(A) 100 sec	(B) 3600 sec	(C) 10 ⁶ sec	(D) 10^4 sec
235.	The metal which me	lts at Human body tem	perature is	
	(A) Gallium	(B) Indium	(C) Thallium	(D) Boron
236.	Artificial rain is form	ned by using		
	(A) Silver Chloride	(B) Silver Bromide	(C) Silver Iodide	(D) Silver Nitrate
237.	Which is an instrume	ent used to measure the	velocity and direction	n of wind?

(C) Anemometer

238.

(A) Thermometer

Match the following:

(B) Barometer

(D) Windvane

(a) Chloro fluro carbon

	(b) Carbon di oxide			2. Ozone						
	(c) Statosphere			3. Hyd	3. Hydro carbon					
	(d) Bu	utane			4. Free	on gas				
		(a)	(b)	(c)	(d)					
	(A)	1	2	4	3					
	(B)	2	1	3	4					
	(C)	4	1	2	3					
	(D)	3	2	4	1					
239.	Ninhy	drin ox	idizes r	nany an	nino acid	ds and p	roduce			
	(i) Carbondioxide					(ii) Ammonia and Aldehyde				
	(iii) CO ₂ and H ₂ O					(iv) CO ₂ , SO ₂ and H ₂ O				
	(A) (i) and (i	i) are c	orrect		(B) (i) and (iv) are correct				
	(C) (ii	ii) and (iv) are	correct		(D) (i)	is correct			
240.	Which	h gas ha	s not be	een tran	sported	by bloo	d?			
	(A) Oxygen						(B) Carbo	n-di-oxide		
	(C) O	xygen a	nd carb	on-di-o	xide		(D) Nitrog	gen		
241.	When	a matu	re egg l	leaves th	ne ovary	, it ente	rs in the			
	(A) O	viduct		(B) Fo	ollicle		(C) Endon	netrium	(D) Interstitial cells	
242.	In wh	ich year	r, X-ray	s was ir	nvented?	•				
	(A) 18	895		(B) 18	899		(C) 1905		(D) 1925	
243.	Positr	on was	discove	ered by						
	(A) A	nderso	n	(B) C	hadwick		(C) Ruther	rford	(D) Bohr	
244.	The g	eometry	y of Ni(CO)4 is						
	(A) Square-planar					(B) Tetrahedral				
	` ´	ctahedra				(D) Tr	rigonal bi-p	yramid	B 00 450	
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1. Green house gas

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(iv) They are improving body metabolism

(iii) They are high in cholesterol

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	Which of the statements given above are correct?									
	(A) i, ii, iii	(B) ii,	iii, iv	(C) i, iii, iv	(D) i, ii, iv					
264.	Arrange the sa	Arrange the salt dissolved in the sea water in descending order:								
	(a) Chloride, Sodium, Sulphate, Magnesium									
	(b) Sodium, S	ulphate, Magn	esium, Chloride	e						
	(c) Magnesium	(c) Magnesium, Sodium, Sulphate, Chloride								
	(d) Sulphate, I	Magnesium, So	odium, Chloride	e						
	(A) a	(B) b	(C) c	(D) d						
265.	Mitochondria	are known as '	'Power houses'	' of the cells. Because						
	(A) They sup	(A) They supply energy rich ATP								
	(B) They supp	(B) They supply enough CO ₂ to body								
	(C) They protects cells from photo-oxidation									
	(D) They act a	(D) They act as autophagic vacuoles								
266.	Which of the	following devi	ces makes use o	of piezo – electric prop	perty of a crystal?					
	(A) Wall clock	k	(B) At	tomic clock						
	(C) Electronic	clock	(D) Q	uartz clock						
267.	Gametogenesis is the important event of sexual reproduction in any organism. Which of the following type of cell division controls this process?									
	(A) Mitosis	(B) A	mitosis	(C) Meiosis	(D) Binary fission					
268.	What is an apl	lanatic lens?								
	(A) A lens free	(A) A lens free from coma								
	(B) A lens fre	(B) A lens free from spherical aberration and coma								
	(C) A lens free	(C) A lens free from spherical aberration								
	(D) Combinat	ion of two lens	ses							
269.	Discovery of _	instru	ment revolution	nized in the field of ge	netic engineering.					
	(A) Electropho	oretic apparatu	ıs							

(A) 30

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(B) 38

(C) 4

(D) 8

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280.	There are 46 chromosomes in a normal human cell, compare to the numbers given below with the special structures in human body:						
	1. Ovum-23						
	2. Sperm-46						
	3. Kidney-46						
	4. Urinary bladder-23						
	Which one is correct	match?					
	(A) 1, 2 and 4	(B) 2, 3 and 4	(C) 1 and 3	(D) 1, 3 and 4			
281.	The disease sickle-ce	ll anaemia, is caused b	y				
	(A) Iron deficiency	(B) Malarial infection	(C) Poor hygie	ene (D) Genes			
282.	Which of the following	ng is called as 'King of	fOil seeds'?				
	(A) Olive	(B) Castor	(C) Groundnut	(D) Seasame			
283.	The frequency of radi	o wave is about	Hz.				
	(A) 10^{15}	(B) 10 ⁶	(C) 10^{10}	(D) 10^2			
284.			n is 6.3 x 10 ⁷ wm ⁻² . W Stefan's constant is 5.7	hat is the surface temperature of $7 \times 10^{-8} \text{ w-m}^{-2} - \text{k}^{-4}$			
	(A) 5667 K	(B) 7566 K	(C) 5766 K	(D) 6756 K			
285.	The hardest naturally	occurring substance is					
	(A) Iron	(B) Graphite	(C) Diamond	(D) Astatine			
286.	Bonding present betw	veen the carbon atoms	in graphite is				
	(A) Metallic	(B) Ionic	(C) Covalent	(D) Vanderwaal's forces			
287.	The percentage of Nit	crogen present in the at	omosphere is				
	(A) 45 %	(B) 28%	(C) 78%	(D) 8%			
288.	In human beings, sex by sex chromosomes	is determined by sex c	hromosomes X and Y.	the female human is represented			
	(A) XO	(B) XX	(C) XY	(D) YY			
289.	The pH of a fertile so	il is usually around					

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	(A) 2-3	(B) 6-7	(C) 8-10	(D) 11-12		
290.	In normal persons, th	ne blood plasma will n	ot contain this ion.			
	(A) Mercury	(B) Sodium	(C) Calcium	(D) Magnesium		
291.	Progesterone hormon	ne is secreted by				
	(A) Corpus luteum	(B) Pituitary gland	(C) Pineal gland	(D) Placenta		
292.	Energy center of a sp	perm is				
	(A) Middle piece	(B) Head	(C) Tail	(D) Entire Sperm		
293.	The cell wall format called as	tion begins at the tele	phage stage of the ce	ll division fine granular structure		
	(A) Plasma desmata	(B) F	Phragmoplast			
	(C) Symplast	(D) A	Apo plast			
294.	Select correctly mate	ehed pair:				
	1. Mercury	- Cinnabar				
	2. Aluminium	- Bauxite				
	3. Titanium	- Limonite				
	4. Iron	- Heamatite				
	(A) 1, 2, 3 and 4	(B) 2, 3 and 4	(C) 1, 2 and 4	(D) 1, 2 and 3		
295.	Mature graffian follio	cle is generally presen	t in the ovary of health	ny human female around		
	(A) $5 - 8$ days of me	nstrual cycle	(B) 11 – 17 days of	menstrual cycle		
	(C) $18 - 23$ days of r	nenstrual cycle	(D) $24 - 23$ days of	2) 24 – 23 days of menstrual cycle		
296.	Which year, Dolly th	e sheep was born, the	first mammal to be clo	oned from an adult cell?		
	(A) 1994	(B) 1995	(C) 1996	(D) 1997		
297.	Electroencephalograp	phy (EEG) is a study a	about?			
	(A) Brain	(B) Heart	(C) Lungs	(D) Liver		
298.	A problem with deve	elopment of Red blood	cell called as			
	(A) Anemia	(B) Polycythemia	(C) Dyserythropoie	esis (D) Yolk sac		
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299.	From where the Zik	ta virus was firs	st identifi	ed?				
	(A) Rat	(B) Cat	(C) M	onkey	(D) Donkey			
300.	Most of the energy	during aerobic	respiratio	on is produce	d by the			
	(A) Electron trans	port chain	(B) Gl	ycolysis				
	(C) Kreb's cycle		(D) py	ruvic acid ox	xidation			
301.	Aquatic plants lost	most of their m	etabolic v	wastes by	in their surroundings.			
	(A) Evaporation		(B) Co	ombine with	ions and precipitation			
	(C) Direct diffusio	n	(D) Pe	eriodic remov	val as their parts fall off			
302.	02. Oxidation number of Mn in KMnO ₄ is							
	(A) 6	(B) 7		(C) 5	(D) 2			
303.	The isoelectric point of an amino acid is the							
	(A) pH at which no net migration occurs during electrophoresis							
	(B) pH at which all the functional groups are protonated							
	(C) Same as the pka for that acid							
	(D) All of the above	e						
304.	Which is used as m	oderator?						
	(A) H ₂ O	(B) D ₂ O		(C) T_2O	(D) H_2O_2			
305.	The value of escape	e velocity in the	earth is _		_			
	(A) 1.12 km/s	(B) 11.2 m/s	}	(C) 11.2 k/	(D) 1.12.m/s			
306.	The net work done	by the forces ac	cting on a	body is equa	al to the change in its			
	(A) Kinetic energy	•		(B) Potentia	al energy			
	(C) Kinetic energy	and potential er	nergy	(D) Momer	ntum			
307.	In an optical fiber c	ommunication,	the light	is guided the	rough the fiber by the principle of			
	(A) Refraction		(B) Di	ffraction				
	(C) Dispersion		(D) T	otal internal	reflection			
308. Learni	Who performed Firing Leads To Ruling	st Heart transpl	ant in (19	967)	Page 36 of 48			

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	(A) Christian Barnard	(B) Jan Donald				
	(C) Willem Kolff	(D) Ian Donald				
309.	Four identical copper cylinders are painted differently. If they are all heated to the same temperature and left in vacuum, which will cool rapidly?					
	(A) Painted shiny white	(B) Painted rough black				
	(C) Painted shiny black	(D) Painted rough white				
310.	Ohm's law does not apply to					
	(A) A.C. Circuits	(B) Conductors				
	(C) Semi-conductors	(D) Conductors when there is a change in temperature				
311.	Symbiosis is an interaction between	two species in which				
	(A) Both live together in direct contact					
	(B) Both are benefited					
	(C) One benefits and other is neither benefited nor harmed					
	(D) One benefits and other is harmed					
312.	Which of the following is incorrectly matched?					
	(A) Turner's syndrome	- 44 autosome + XO				
	(B) Klinefelter's syndrome	- 44 autosome + XXY				
	(C) Down's syndrome	- 44 autosome + XYY				
	(D) Super female	- 44 autosome + XXX				
313.	Nitrous acid, oxalic acid and acidific	ed solution of FeSO ₄ examples for				
	(A) Reducing agents	(B) Oxidizing agents				
	(C) Additive agents	(D) Both (A) and (B)				
314.	Blister copper is					
	(A) 98% pure copper	(B) 96% pure copper				
	(C) 90% pure copper	(D) 92% pure copper				
315.	Trace elements required for plant growth					

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	(A) N, P, K (B) Ca, Mg, Fe		(C) Mn, Zn, Cu	(D) C, H	, O
316.	The principal gen	etic material of livi	ing bei	ngs		
	(A) DNA	(B) RNA		(C) Both 'A' and 'B	(D) Nucl	eolus
317.	The Chief compo	nent of fungal cell	wall is			
	(A) Mucopeptide		(B) C	ellulose		
	(C) Mucopolysac	echaride	(D) α	– D glucopyranose		
318.	Raman effect is d	ue to				
	(A) Incoherent So	cattering	(B) C	oherent Scattering		
	(C) No Scattering	5	(D) R	efraction		
319.	Hydraulic lift, hy	draulic press and h	ydrauli	c break work on		
	(A) Newton's law	7	(B) A	rchimede's law		
	(C) Pascal's law		(D) B	ernoulli's law		
320.	The male honeyb	ee has	se se	t of chromosome.		
	(A) Diploid	(B) Haploid		(C) Tetraploid	(D) Polyploid	
321.	Which of the follo	owing could act as	a prope	ellant for rockets?		
	(A) Liquid hydro	gen + Liquid nitrog	gen	(B) Liquid oxygen +	Liquid argon	
	(C) Liquid hydro	ogen + Liquid oxy	gen	(D) Liquid nitrogen	- Liquid oxygen	
322.	Which of the follo	owing is not a Lew	is acid	?		
	(A) BF ₃	(B) AlCl ₃		(C) BeCl ₂	(D) BaCl ₂	
323.	Which organ grow	wth requires thyroic	d horm	one?		
	(A) Heart	(B) Lungs		(C) Brain	(D) Kidney	
324.	During DNA repl	ication, the Okazal	ki fragn	nents on the lagging st	and and joined to	gether by
	(A) DNA ligase	(B) DNA poly	ymeras	e (C) Primase	(D) Helicase	
325.	Red data book co	ntains data of				
	(A) All plant spec	cies		(B) All animal specie	s	
Learn	(C) Economically ing Leads To Ruling	important species		(D) Threatened end	angered species Page 38	3 of 48

The highly resistant bodies produced within the cells of certain gram positive bacteria are

(C) Endospores

(B) Globules

(A) Granules

334.

(D) Plasmid

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335.	No indicator is suitable for the titration of					
	(A) Strong acid Vs strong base	(B) Strong acid Vs Weak base				
	(C) Weak acid Vs weak base	(D) Weak acid Vs strong base				
336.	The increasing order of lattice energy of the following NaF, NaCl, NaBr, NaI is					
	(A) Nal > NaBr > NaCl > NaF	(B) Nal < NaBr < NaCl < NaF				
	(C) NaF > NaBr > NaCl > Nal	(D) NaBr < Nal < NaF < NaCl				
337.	How many time the stomach takes	to the brain that it is full and that one should stop eating?				
	(A) 5 minutes (B) 10 minut	es (C) 15 minutes (D) 20 minutes				
338.	How many years sun takes to comp	lete one revolution round its galactic centre, called cosmic year?				
	(A) 550 million years	(B) 450 million years				
	(C) 350 million years	(D) 250 million years				
339.	Fermentation is similar to					
	(A) Aerobic respiration	(B) Anaerobic respiration				
	(C) Photosynthesis	(D) Transpiration				
340.	Einstein's photoleotric equation is					
	(A) $h\gamma = \frac{1}{2} mv^2$	(B) $h\gamma_0 = h\gamma + \frac{1}{2} mv^2$				
	(C) $h\gamma = h\gamma_0 + \frac{1}{2}mv^2$	(D) $2h\gamma = hr_0 + mv^2$				
341.	If the earth steps rotating suddenly, the value of 'g' at a place will be					
	(A) Increase (B) Decrease	s (C) Becomes zero (D) Remain unchanged				
342.	The upper limit of the troposphere	s called				
	(A) Tropopause (B) Stratopa	use (C) Ozonosphere (D) Exosphere				
343.	Suppose a planet went areound the sun twice as fast as earth. What would be its orbital size as compared to that of the earth?					
	(A) 63% that of the earth	(B) 53% that of the earth				
	(C) 43% that of the earth	(D) 33% that of the earth				
344.	Which of the following statements about transistor amplifiers are incorrect?					

I.
$$\beta = \frac{\alpha}{1-\alpha}$$

II.
$$\frac{1}{\alpha} - \frac{1}{\beta} = 1$$

III. Gain increases with negative feedback

IV. Gain decreases with positive feedback

- (A) I and II
- (B) II and III
- (C) III and IV
- (D) II and IV

345. Which of the following is not a 'blue copper protein?

- (A) Stellacyanin
- (B) Ferritin
- (C) Plastocyanin
- (D) Azurin

346. The equivalent conductance of an electrolyte with dilution

- (A) Does not vary
- (B) Increases till it reaches a limiting value
- (C) decreases
- (D) First decreases and then increases

347. Which bacterium contains the crystal protein (endotoxin) that kills Lepidoptera insects?

- (A) Xanthomonas campetris
- (B) Bacillus thuringiensis
- (C) Pseudomonas syringe
- (D) Bacillus anthracis

Carnivorous adaptation of plants mainly compensate for soil that has a relatively low content of 348.

- (A) Potassium
- (B) Nitrogen
- (C) Phosphate
- (D) Calcium

349. The Compton shifts ($\Delta \lambda$) in wavelength is given by

- $(\mathbf{A}) \frac{h}{\mathsf{moc}} (\mathbf{1}\text{-}\mathbf{cos}\,\phi) \qquad (\mathbf{B}) \frac{h}{\mathsf{moc}^2} (\mathbf{1}\text{-}\mathbf{cos}\,\phi) \qquad (\mathbf{C}) \frac{hc}{\lambda} \frac{hc}{\lambda 0} \qquad (\mathbf{D}) \frac{h}{\mathsf{moc}} (\mathbf{1}\text{-}\mathbf{sin}\,\phi)$

If we assume, the mass of an electron is 9 10⁻¹³ kg, the number of electrons required for 1 kg world 350. be

- (A) 10^{31}
- (B) 10^{30}
- (C) 10^{32}
- (D) 10^{29}

What is the study of soil called? 351.

- (A) Pomology
- (B) Phycology
- (C) Pedology
- (D) Mycology

The first synthetic polymer produced in 1909 is 352.

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	(A) R	layon		(B) F	Polystyrene	(C) Bake	elite	(D) Polyethylene	
353.	Phos	gene is							
	(A) C	CCl ₄		(B) (COCl ₂	(C) CS ₂		(D) NOCl	
354.	Matc	Match the following types of cancer			of cancer base	d on the tissu	ıe:		
	(a) C	arcinon	na	Cancer of the Lymphatic System					
	(b) Sa	arcoma			2. Cancer of	2. Cancer of the white blood cells or bone marrow			
	(c) L ₂	ymphor	na		3. Cancer of	of the bone an	nd soft tiss	sues	
		eukemi			4. Cancer of	of the epitheli	al cells		
	, ,	(a)	(b)	(c)	(d)	-			
	(A)	2	3	1	4				
	(B)	3	4	1	2				
	(C)	4	2	1	3				
	(D)	4	3	1	2				
355.	, ,				und the sun is	a			
300.		inear m				Wave motion	n		
			icircul	ar moti		Uniform line		n	
356.					oits of an elec				
330.		7			Ruther Ford		-	-	
257		J. Thor				(C) Neil I	DOIII	(D) Sommerfeld	
357.				tne ten	nperature at w	nich			
		Vater fro		• . •	1.1				
					olid state				
		_			ody would be	e completely	at Rest		
			aporizes						
358.	In the	e follow	ing con	-					
	(i). N	$_{2}O$		(ii) N	O and		(iii) N ₂ O ₃		
	Calcu	ılate the	e ratio o	f oxyge	n that combin	nes with 14 gr	ms of nitre	ogen.	

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	(A) 3:2:1	(B) 1:3:2		(C) 1:2:3		(D) 2:1:3	
359.	The instrument used	to measure the	humidi	ty is			
	(A) Thermometer	(B) Thermisto	or	(C) Hygromete	er	(D) Anemometer	
360.	Typhoid fever can be	confirmed by	which o	of the following to	est		
	(A) WIDAL test		(B) M	lantoux test			
	(C) Van Den Berg te	st	(D) So	outhern blotting t	echni	que	
361.	Which of the following	ng is taken by a	thletes	to increase their	musc	le power and efficiency?	
	(A) Glucose	(B) Insulin	(C) A	nabolic steroids		(D) Epinephrine	
362.	Following are the nuc	cleotides and ar	nino ac	id involved in pro	otein	synthesis	
	(a) tRNA						
	(b) mRNA						
	(c) rRNA						
	(d) amino acid (Alan	ine)					
	(d) DNA						
	(A) e, b, a, d	(B) a, b, c, d,	e	(C) a, b, c		(D) a, d, b, e	
363.	Which of the following	ng reactions are	redox	reactions			
	I. $CuSO_4 + 4 NH_3 \rightarrow$	[Cu(NH ₃) ₄] S	O_4				
	II. 2CuSO ₄ + 4KI →	$2 \text{ CuI} + 2 \text{ K}_2\text{SO}$	$O_4 + I_2$				
	III. Na ₂ SO ₄ + BaCl ₂	→ BaSO ₄ + 2 N	NaCl				
	IV. 3 Br ₂ + 6 NaOH	\rightarrow NaBrO ₃ + 5	NaBr +	- 3 H ₂ O			

364. Which one is not an organo phosphorous insectide?

(A) Diazinon

(A) I and III

(B) Malathion

(B) II and IV

(C) Carbaryl

(C) I and IV

(D) Chloropyrifos

(D) II and III

365. The pH scale runs from a pH of _____ to pH of _____

(A) 0, 7

(B) 1, 14

(C) 7, 14

(D) 0, 14

366. The five kingdom proposed by Whittaker are

- (A) Monera, Protista, Algae, Fungi, Animalia
- (B) Monera, Protozoa, Fungi, Plantae, Animalia
- (C) Monera, Protozoa, Bacteria, Plantae, Animalia
- (D) Monera, Protista, Fungi, Plantae, Animalia
- 367. Which of the following is the correct sequence in Kreb's cycle?
 - (A) Isocitric acid \rightarrow Oxalosuccinic acid \rightarrow α Ketoglutaric acid
 - (B) Oxalosuccinic acid $\rightarrow \alpha$ Ketoglutaric acid \rightarrow Isocitric acid
 - (C) Isocitric acid $\rightarrow \alpha$ Ketoglutaric acid \rightarrow Oxalosuccinic acid
 - (D) α Ketoglutaric acid → Isocitric acid → Oxalosuccinic acid
- 368. Pick out the correct reasons:

Oil mixed with petrol for two wheelers due to the following reason(s):

- (1) It lubricates the engine parts
- (2) It remove heat inside two engines
- (3) It allows for the deposit of carbon on the spark plug
- (A) (1), (2) and (3)

(B) (1) and (2) only

(C) (2) and (3) only

- (D) (1) and (3) only
- 369. Match the following:
 - (a) Osmium

1. Best conductor of electricity

(b) Lithium

2. Heaviest metal

(c) Tungsten

3. Lightest metal

(d) Silver

- 4. Highest melting point 3300°C
- a b c d
- (A) 1 2 3 4
- (B) 2 1 4 3
- (C) 2 3 4 1
- (D) 3 4 1 2
- 370. Match List I with List II correctly:

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List I List II

(Solution)

(pH value)

- (a) Blood
- 1. 6.5
- (b) Urine
- 2.7.3 7.5
- (c) Vinegar
- 3.5.5 7.5
- (d) Milk
- 4.2.4 3.4

d

1

1

- a
- c
- (A) 2
- 3

b

- •
- (B) 2
- 4
- 3
- (C) 4
- 2

1

- D) 2
- .

3

- (D) 3
- 4 2

371. Match the following:

Deficiency diseases

- (a) A
- 1. Pellagra
- (b) B₁
- 2. Nictalopia
- (c) B_6
- 3. Pernecious Anaemia
- (d) B_{12}
- 4. Beri Beri

d

3

2

- a
- c
- (A) 2
- 3

b

- 1 4
- (B) 1
- 2
- (C)
- 3

1

(D)

2

- 4
- 3
- 372. Which of the following pairs are incorrect?
 - I. Chloroflurocarbons
- Refrigerators

II. Methane

- Ploughing of fields
- III. Nitrous oxide
- Enteric fermentation in cows

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	IV. Carbon dioxide	- Burning of fossil fuels				
	(A) I and II	(B) II and III	(C) III and IV	(D) I and IV		
373.	The respiratory quotient	ent of glucose in anaer	obic respiration is			
	(A) One	(B) Four	(C) Infinity	(D) Less than one		
374.	A man sitting in the velocity	revolving chair with	stretched hands, sudde	enly bend his hands, the angular		
	(A) Decreases	(B) Increases	(C) Zero	(D) Constant		
375.	Which of the following	ng device converts ligh	nt signals into electrical	l (or) electronic signals?		
	(1) Digital camera	(2) Fax machine	(3) Optical transmitte	er		
	(A) (1) and (2) only	(B) (2) and (3) only	(C) (1) and (3) only	(D) (1), (2) and (3)		
376. Which of the following statements is/are wrong?						
	(1) Light year is a unit of time					
(2) Astronomical unit (AU) is a unit of distance						
	(3) Parsec is a unit of	mass				
	(A) (2) and (3)	(B) (1) and (3)	(C) (3) only	(D) (1) only		
377.	Identify the incorrect	pair:				
	I. Washing soda	- Na ₂ CO ₃				
	II. Bleaching powder	- CaO				
	III. Plaster of paris	- CaSO ₄ ½H ₂ H ₂	O			
	IV. Baking soda	- NaHCO ₃				
	(A) I (B) II	(C) III	(D) IV			
378.	What are the chemica	als present in match stie	ck?			
	(A) Red phosphorous	s, glue, sulphur				
	(B) Antimony sulph	ate, sulphur, potassiu	m chlorate			
	(C) Antimony sulphio	de, red phosphorous, g	lue			
	(D) Antimony sulphide, phosphorous, sulphur					

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379.	79. Which group of plants species are lower in number in the plant kingdom?						
	(A) Fungi	(B) Pteridophyta	(C) Bryophyte	s (D) Oymnosperms			
380.	Which class of algae is used in the manufacture of dynamite?						
	(A) Chlorophyceae	(B) Chrysophyco	eae (C) Cryptophy	ceae (D) Pheophyceae			
381.	Which is an example for chemosynthetic heterotroph?						
	(A) Man	(B) Viscum	(C) Nitrosomo	nas (D) Beggiatoa			
382.	What is the basic con	cept of Raman effe	ect?				
	(A) Reflection	(B) Incoherent sc	attering (C) Co	herent scattering (D) Refract	ion		
383.	The Epsom salt which	h is used as laxativ	e is				
	$(A)\ MgSO_4.7H_2O$	(B) CaSO ₄ .2H ₂ O	(C) ZnSO ₄ .7H	₂ O (D) CuSO ₄ .5H ₂ O			
384.	Which one of the following is the correct composition of Brass?						
	(A) Cu-50%; Sn – 50	O% (B	6) Cu-60%; Zn – 4	0%			
	(C) $Zn - 70\%$; $Sn - 3$	30% (D) Fe – 40 %; Ni – 6	50%			
385.	1 Femto is equal to _	nto is equal tom.					
	(A) 10^{-6}	(B) 10 ⁻¹⁵	(C) 10 ⁻⁵	(D) 10 ⁻⁹			
386.	What is phototropism?						
	(A) Movement of pla	nts towards chemic	cals (B) Movemen	ts of plants towards light			
	(C) Movement of pla	nts towards soil	(D) Response of plants for day length				
387.	What is the value of g	gravitational field a	at the center of the s	phere?			
	(A) Zero	(B) $\frac{Mr}{G}$	$(C)\frac{GM}{r}$	(D) $-GM/r^2$			
388.	Which of the following	ng is sensitive to ul	ltrasonic waves?				
	(A) Man	(B) Bat	(C) Bird	(D) Fish			
389.	What happens in the reduction process?						
	(A) Loss of electrons	(В	(a) Gain of electrons				
	(C) Loss of hydrogen	(D) Gain of oxygen				

390.	Galena is the ore of which of the following metals?					
	(A) Silver	(B) Lead		(C) Gold	(D) Iron	
391.	A preparation of living (or) killed micro-organism (or) viruses used in prevention of diseases through immunization is called					
	(A) Toxoid	(B) Vaccine		(C) Viremia	(D) Anti – toxin	
392.	In higher plants the sporophytic phase is formed after growth and development of the zygote. Point out the type of cell division in this growth.					
	(A) Mitosis	(B) Meiosis		(C) Amitosis	(D) Zygotic meiosis	
393.	The source of energy	in any eco syste	em are			
	(A) Osmotrophs	(B) Autotroph	ıs	(C) Lithotrophs	(D) Heterotrophs	
394.	Kuhne's tube can den	nonstrate the pro	ocess of	f		
	(A) Fermentation		(B) Ge	rmination of seed		
	(C) Growth of plants		(D) Ae	robic respiration		
395.	395. The Acid Rain destroys the vegetation, because it contains					
	(A) Nitrates	(B) Ozone	(C) Car	rbon monoxide	(D) Sulphuric acid	