BIOLOGY

101.	Prions were discovered by	(3)	Are made up of pro	oteins only
	(1)Prusiner	(4)	Multiply only in hos	st cells
	(2) Gajdusek	0. Cya	nophage is a virus t	that attacks-
	(3) Stanley	(1)	Blue-green algae	(2) Bacteria
	(4) Temin	(3)	All plants	(4) All animals
102.	The fact that best supports the concept that viruses are living is that viruses (1) Are made up of common chemicals	prod	duced by host cells i	molecular weight protein) in response to viral infection, against further viral infection
	(2) Duplicate themselves	1S		
	(3) Cause disease		Phytotoxin	(2) Antibody
	(4) Penetrate cell membrane	` ′	Interferon	(4) Hormone
103.	is	vivu	ım fluidum"	called viruses as "Contagium
	(1) Plasma membrane of the host(2) Mitochondria of the host		Beijerinck	(2) Twort
		` '	d' Herelle	(4) Bawden and Perie
	(3) RNA of the host	3. Viri	on refers to	
	(4) Ribosome of the host		•	able of causing infection
104.	Longest known virus is	` ′	•	ble of causing infection
	$\begin{array}{c} (1) \phi \times 174 \\ (2) TMV \end{array}$		Nucleic acid of virinfection	rus not capable of causing
	(2) TMV (3) Citrus tristeza virus		Complete form of infection	f virus capable of causing
	(4) T ₁ phage	1/12	iphage T ₂ has	trance
105.	Viruses have	10 (C) (C)	ss RNA	(2) ss DNA
	(1) Chromosomes (2) Ribosomes	` ′	ds RNA	(4) ds DNA
	(3) Nucleoprotein (4) Carbohydrates	` '		virus infected plant can be
106.	The virus responsible for AIDS is an example of a/an		nined by	virus infecteu piune cui oc
	(1) Adeno virus (2) Mosaic virus	(1)	Tissue culture	
	(3) T-even virus (4) Retrovirus	(2)	Stem cutting	
107.	Viroids have	(3)	Shoot apex z culture	2
	(1) Single stranded RNA not enclosed by protein coat		Phloem culture	
	coat		ne TMV cryptogram ten as E/E. It repre	n, the third pair of symbols is
	(3) Double stranded DNA enclosed by proteins coat	(1)	the type of nucleic a	cid in virus/strands of nucleic
	(4) Double stranded RNA enclosed by proteins coat		acid	
108.	Kuru, a human disease is caused by (1) Viruses		molecular weight of percentage of nucle	of nucleic acid in millions/ ic acid is virus
	(2) Viroids		shape of virus/shape	
	(3) PPLO (4) Prions	(4)	kind of host/kind of	vetor
109.	Which of the following is true for viruses?	7. Hyc	kind of host/kind of drophobia is caused Hernes virus	by Enlish
	(1) Occur only inside bacteria	(1)	Herpes virus	(2) Rhabdovirus
	(2) Behave as if they are plants	(3)	HIV virus	(4) Pox virus

118.	Chemically interferons are	126.	Bouquet stage is characteristics of
	(1) Glycolipids		(1) Leptotene of animal cells
	(2) Glycoproteins		(2) Zygotene of animal cells
	(3) Nucleoproteins		(3) Pachytene of plant cells
	(4) Polysaccharides		(4) Leptotene of plant cells
119	Which of the following is a dermotropic viral disease?	127.	Prometaphase is characterized by
117.	(1) Influenza (2) AIDS	30	(1) Complete disappearing of nuclear membrane
			(2) Complete formation of spindle fibres
120	(3) Rabies (4) Measles		(3) Complete formation of inter-zonal fibres
120.	Hereditary matter of virus present with DNA of bacteria of	100	(4) Complete polymerization of nucleolus
		128.	"Phragmoplast" is associated with
	(1) Prophage (2) Intron		(1) Cytokinesis of animal cell
	(3) Plasmid (4) Capsid		(2) Cytokinesis of plant cell
121.	Which of the following human diseases is related to		(3) Cell elongation
	bovine spongiform encephalopathy (BSE)?	120	(4) Karyokinesis during cell division
	(1) ILUIU UZUI	129.	Which of the following statement is correct about chiasmata?
	(2) Encephalitis (3) Cerebral spondylitis		(1) It is responsible for crossing over
	(3) Cerebral spondylitis		(2) It is the result of crossing over
	(4) Creutzfeldt-Jacob disease		(3) It occurs during pachytene of prophase
122.	Virus replicates on		(4) It is responsible for genetic variation
	(1) Agar gel	130.	Absence of Peroxisomes leads to
	(2) Living culture medium		(1) Tay Sachs Syndrome
	(3) Dead tissue		(2) Hunter's Syndrome
	(4) Artificial culture medium		(3) Zellwagner Syndrome
123	Tailed bacteriophages having tail fibres are		(4) Jacob Syndrome
123.	(1) Motile on the surface of bacteria	131.	The component of centriole, which help in its
	(2) Non-motile	inc	duplication are known as
	D. E.		(1) Triplets (2) Massules
	(3) Actively motile in water	122	(3) Hub (4) Satellite DNA
101	(4) Motile on surface of plant leaves	132.	Dynein is a protein which help in
124.	A viral DNA can be made radioactive		 Movement of cilia & flagella Formation of doublet
	(1) By culturing the viruses on a medium of potato, dextrose and P ³²		(3) Formation of doublet
			(4) Assembly of microtubules
	(2) By culturing the viruses in a medium of P^{32}	133	Which of the following factor is associated with the
	(5) By providing P to a vacterium which has been	155.	assembly of microtubules during cell division?
	infected by a virus		(1) Calmodulin (2) Calcium
	(4) By providing P^{32} to viruses when they are about		(3) Magnesium (4) All of these
105	to attach the bacteria	134.	Peroxisomes participates actively in
125.	Plant viruses have mainly		(1) Glucoce metabolism (2) Alcohol metabolism
	(1) DNA (2) RNA		(3) Fat metabolism (4) Purine metabolism
	(3) both DNA or RNA (4) Coiled nucleoid	135.	Reason of chromosomal movement in anaphase is
		-0	(1) Astral ray (2) Chromocentre
	ance war		(3) Kinetochore
	Entrance		(4) Kinetochore and spindle fibres

- 136. Which of the two events restore the normal number of chromosomes in life cycle?
 - (1) Meiosis & fertilization (2) Mitosis & meiosis
 - (3) Fertilization & mitosis (4) Only meiosis
- 137. What happens in interkinesis?
 - (1) DNA-replication
 - (2) Chromosome duplication
 - (3) Preparation of second meiotic division
 - (4) All of these
- 138. Glyoxysomes mainly convert fatty acids into
 - (1) Amino acids
- (2) Purines
- (3) Pyrimidines
- (4) Carbohydrates
- 139. In animal, active mitosis can be observed
 - (1) At the base of nails (2) At the apex of hairs
 - (3) Dermis of skin
- (4) Glans & root tips
- 140. Which of the following is incorrect about cell reproduction?
 - (1) Daughter cells in meiosis have half the number of chromosome than the parent cell
 - (2) The fully formed cell plate is called middle lamella
 - (3) M-Phase is process of nuclear division and divided into four stages-prophase, metaphase, anaphase and telophase
 - (4) Interphase is metabolically inactive and visible phase of cell cycle
- 141. How many times a cell has to divide mitotically to produce 256 cells?
 - (1) 127
- (2) 126
- (3) 128
- (4) 255
- 142. A chromosome has 2 or more
 - (1) Chromatids
 - (2) Telomeres
 - (3) Centromere
- (4) All of these
- 143. An egg cell has 10 Pg of DNA in its nucleus. How much amount of DNA will be in this animal at the end of G, phase of mitosis?
 - (1) 2.5 Pg
- (2) 5 g
- (3) 5 Pg
- (4) 40 Pg
- 144. Terminal meiosis is also called
 - (1) Gametic meiosis
- (2) Sporic meiosis
- (3) Zygotic meiosis
- (4) Brachymeiosis
- 145. Colchicine is used in
 - (1) Doubling of chromosome
 - (2) Breaking of chromosome
 - (3) Separation of chromosome
 - (4) Doubling of centromere

- 146. Early prophase is also called spireme stage. In this
 - (1) Chromatin fibres are undergoing spiralization
 - (2) Chromatids are twisted over each other
 - (3) Chromosomes are spirally twisted
 - (4) Chromosomes are overlapping one another
- 147. A bacteria divides every 35 minutes. If a culture containing 10⁵ cells per mL is grown for 175 min., What will be the cell concentration per mL after 175 min.?
 - (1) 175×10^5 cells
- (2) 32×10^5 cells
- (3) 5×10^5 cells
- (4) 35×10^5 cells
- 148. Match list I with list II and select the correct answer using the codes given below the lists:

List I

List II (i) Chiasmata

Pairing of homologous chromosomes

b. Actual interchange of

(ii) Synaptonemal complex

(iv) Crossing over

- segment between two homologous chromosomes c. Protein body formed
 - (iii) Synapsis between paired homologues
- d. The cross shaped configuration visible at diplotene stage between homologues

- (1) a(iv), b(iii), c(i), d(ii) (2) a(iii), b(iv), c(i), d(ii) (3) a(iii), b(iv), c(ii), d(i) (4) a(iv), b(iii), c(ii), d(i)
- 149. Annulus pore of nucleus has
 - (1) 8 microcylinders and nucleoplasmin
 - (2) 10 microcylinders with nuclein
 - (3) 13 microcylinders with chromatin
 - (4) None of these
- 150. Nucleosomes are present in
- (2) Only in prokaryotic chromosomes
 (3) Only in viral

 - (4) All of these

Entrance

