Model Test Paper

GLA UNIVERSITY, MATHURA

(M.Sc. Microbiology & Biotechnology)

Q.No.1. A gene is made up of- (a) DNA, RNA and Protein	Q.No.7- Collagen is-
(b) (b) DNA and Protein	(a) Protein (b) Fat
(c) (c) DNA only	(c) Sugar (d) Starch
(d) (d) DNA and RNA	
Q.No.2- Bacterial which retain purple colour after staining with Gram stain is-	Q.No.8- Common bread mould is- (a) Aspergillus (b) Penicellium
(a) Gram +ve (b) Gram –ve	(c) Erisiphe (d) Rhizopus
(c) Spirillum (d) None of the other	
Q.No.3- Blood colour of arthropods is-	Q.No.9- Loss of H ₂ O in vapour form from aerial parts of plants is called -
(a) Colourless (b) Reddish	(a) Transpiration (b) Guttation
(c) Bluish (d) Yellow	(c) None (d) Both (a) and (b)
Q.No.4- Branch of biology dealing with the study of birds-	Q.No.10- Difference between DNA and RNA is that of-
(a) Anthropology (b) Herpetology	(a) Sugar and base
(c) Ornithology (d) Onchology	(b) Sugar and phosphate
Q.No.5- Chromosome replication occurs during-	(c) Phosphate and Base(d) Sugar only
(a) Metaphase (b) Interphase	
(b) (c) Anaphase (d) None of these	Q.No.11- Distance between two base pairs of DNA is-
Q.No.6- Cistron is the functional unit of-	(a) 34nm (b) 3.4nm
(a) DNA (b) RNA	(b) (c) 0.68nm (d) 0.34nm
(c) Non functional unit of DNA	
(d) None functional unit of RNA	Q.No.12- DNA occurs in-
	(a) Nucleus and some organelles
	(b) Cell organelle (c) Cytoplasm
	(d) Nucleus

Q.No.13- Each carpel is made up of - (a) Ovary (b) Stigma (c) Style	Q.No.21- In plants function of water conduction is performed by- (a) Phloem (b) Cortex
(d) All above	© Xylem, tracheids and vessels
Q.No.14- Electron Transport System is present in-	-
(a) Chloroplast (b) Ribosome	(d) Cambium
(c) Mitochondria (d) Nucleus	Q.No.22- Initiation codon for protein synthesis in eukaryotes is-
Q.No.15- Father of microscopy is-	(a) GUA (b) GCA
(a) Theophrastus (b) Janssen	© CCA (d) AUG
(c) Leeuwenhoek (d) Hooker	Q.No.23- Interfascicular cambium is situated-
Q.No.16- Five kingdom classification was proposed	(a) Between xylem and phloem
by-	(b) Between vascular bundles
(a) Linnaeus (b) Whittakar	© Outside the vascular bundle
(c) John Ray (d) Lamark	(d) Innerside of vascular bundles
Q.No.17- Flagella is made up of protein-	Q.No.24- Late blight of potato is due to-
(a) Keratin (b) Myosin	
(c) Flagellin (d) Flagin	(a) Alternaria solani (b) Albugo candida
Q.No.18- Fluid mosaic model was given by-	(c) Fusarium moniliforme
	(d) Phytophthora infestens
 (a) Singer and Nicolson (b) Robert Brown (c) Watson and Crick (d) Beadle and Tatum 	Q.No.25- Muscles get fatigue due to accumulation of-
	(a) Adenosine triphosphate
Q.No.19- Formation of RNA over the DNA template is-	(b) Carbon dioxide
(a) Replication (b) Translation	(c) Lactic acid (d) Phosphate Molecules
(c) Transversion (d) Transcriptio	Q.No.26- Muscles involved in movement of arm are-
Q.No.20- How many whorls are there in a complete flower-	(a) Striated (b) Unstriated
(a) 4 (b) 3	(c) Cardiac (D) Smooth
© 2 (d) 6	

-	Number of mito 8 cells from a	otic divisions re single cell-	equired to	Q.No.34- The cells having the ability to divide are-
(a) 7	(b) 14	(c) 16	(d) 32	(a) Specialised (b) Peramanent
ON: 29 O	Negali agena	nto ono		(c) Meristmatic (d) Glandular
Q.No.28- Okazaki segments are-				Q.No.35- Among the following which one is
(a) Small segments of RNA				terminating codon for protein synthesis
(b) Small peptides				(a) UAA (b) UAG (c) UGA
(c) Small DNA segments				(d) All of them
(d) Small DNA segments formed over DNA template running in 3' - 5' direction			er DNA	36- Reverse transcriptase is present in-
Ĩ	C	de up of single	cell are	(a) Polio virus (b) Retro virus
•	called-	de up of single		(b) (c) Adeno virus (d) Herpes virus
(a) Monocellular (b) One celled				Q.No.37- Which of the classes of RNA molecules carries the genetic information as it is needed for
(c) Unic	cellular	(d) None		the construction of a protein-
Q.No.30- Plant cell wall is mainly composed of-			posed of-	(a) r-RNA (b) t-RNA
(a) Lipids (b) Proteins				(c) m-RNA
(c) Chitin (d) Cellulose				(d) Primary m-RNA transcript
Q.No.31- Plant cells are generally without-		out-		
(a) Lyse	osomes	(b) Cell w	all	Q.No.38- Cells of leydig produce-
(c) Plastids (d) Vacuoles				(a) Progesterone (b) Testosterone
Q.No.32- Plants which grows on other plant is termed as-		plant is	(c) Adrenalin	
			(d) None of the above	
(a) Lith	ophytes	(b) Epiphy	ytes	Q.No.39- Estrogen is secreted by -
(c) Psan	nmophytes	(d) Mesop	bhytes	(a) Theca interna (b) Zona pellucida
Q.No.33-The carrier which is used for transferring selected DNA into cells is known as-			(c) Corona radiata (d) Graafian folllich	
(a) Trai	nsposons	(b) Endon	uclease	Q.No.40-GnRH is secreted by -
(c) Vect	tor	(d) None of	of these	(a) Anterior lobe of pituitary gland
				(b) Cerebellum
				(c) Cerebral hemisphere
				(d) None

Q.No.41-Chromosome with equal arms is-(a) Acrocentric(b) Metacentric	Q.No.43-Cytoplasmic structures involved in cell division are-(a) Mitochondria (b) Ribosomes	
(c) Submetacentric (d) Telocentric	(c) Lysosomes (d) Centrioles	
 Q.No.42-Clover leaf structure is found in- (a) DNA (b) RNA (c) t- RNA (d) m-RNA 	 Q.No.44-Fungal cell wall is composed of- (a) Chitin (b) Cellulose (c) Hemicellulose (d) None of the above 	
	Q.No.45-In which the number of chromosomes is halved-	
	(a) Mitosis (b) Amitosis	
	(c) Meiosis (d) Fertilisation	