

## NEET(UG)–2020 EXAMINATION BIOLOGY ANSWER KEY WITH NCERT PAGE NUMBER

NOTE: ANY CHANGES OR MODIFICATION IN PAGE NUMBER OR ANSWER PLS INFORM ME – THANK YOU

S.NO	QUESTIONS	CLASS	P.NO (NCERT)
1.	Name the enzyme that facilitates opening of DNA helix during transcription. (1) RNA polymerase (2) DNA ligase (3) DNA helicase (4) DNA polymerase Ans. (1)	11	
2.	Which of the following regions of the globe exhibits highest species diversity? (1) Amazon forests (2) Western Ghats of India (3) Madagascar (4) Himalayas Ans. (1)	11	
3.	Floridean starch has structure similar to: (1) Laminarin and cellulose (2) Starch and cellulose (3) Amylopectin and glycogen (4) Mannitol and algin Ans. (3)	11	
4.	The plant parts which consist of two generations one within the other : (a) Pollen grains inside the anther (b) Germinated pollen grain with two male gametes (c) Seed inside the fruit (d) Embryo sac inside the ovule (1) (a) and (d) (2) (a) only (3) (a), (b) and (c) (4) (c) and (d) Ans. (1)	11	
5.	Match the following : (a) Inhibitor of catalytic activity (i) Ricin (b) Possess peptide bonds (ii) Malonate (c) Cell wall material in fungi (iii) Chitin (d) Secondary metabolite (iv) Collagen Choose the correct option from the following : (a) (b) (c) (d) (1) (ii) (iii) (i) (iv) (2) (ii) (iv) (iii) (i) (3) (iii) (i) (iv) (ii) (4) (iii) (iv) (i) (ii) Ans. (2)	11	mixed
6.	Which of the following is correct about viroids ? (1) They have free DNA without protein coat. (2) They have RNA with protein coat. (3) They have free RNA without protein coat. (4) They have DNA with protein coat. Ans. (3)	11	27
7.	Which of the following pairs is of unicellular algae? (1) Chlorella and Spirulina (2) Laminaria and Sargassum (3) Gelidium and Gracilaria	11	32

	(4) Anabaena and Volvox Ans. (1)		
8.	Bilaterally symmetrical and acoelomate animals are exemplified by: (1) Annelida (2) Ctenophora (3) Platyhelminthes (4) Aschelminthes Ans. (3)	11	51
9.	Match the following columns and select the correct option. Column -I                      Column -II (a) 6 -15 pairs of gill slits    (i) Trygon (b) Heterocercal caudal fin    (ii) Cyclostomes (c) Air Bladder                    (iii) Chondrichthyes (d) Poison sting                 (iv) Osteichthyes (a) (b) (c) (d) (1) (i) (iv) (iii) (ii) (2) (ii) (iii) (iv) (i) (3) (iii) (iv) (i) (ii) (4) (iv) (ii) (iii) (i) Ans. (2)	11	56
10.	The roots that originate from the base of the stem are : (1) Lateral roots (2) Fibrous roots (3) Primary roots (4) Prop roots Ans. (2)	11	66
11.	Ray florets have : (1) Half inferior ovary (2) Inferior ovary (3) Superior ovary (4) Hypogynous ovary Ans. (2)	11	73
12.	The ovary is half inferior in : (1) Plum (2) Brinjal (3) Mustard (4) Sunflower Ans. (1)	11	73
13.	The transverse section of a plant shows following anatomical features: (a) Large number of scattered vascular bundles surrounded by bundle sheath. (b) Large conspicuous parenchymatous ground tissue. (c) Vascular bundles conjoint and closed. (d) Phloem parenchyma absent. Identify the category of plant and its part :- (1) Dicotyledonous root (2) Monocotyledonous stem (3) Monocotyledonous root (4) Dicotyledonous stem Ans. (2)	11	93
14.	Identify the incorrect statement. (1) Due to deposition of tannins, resins, oils etc., heart wood is dark in colour (2) Heart wood does not conduct water but gives mechanical support (3) Sapwood is involved in conduction of water and minerals from root to leaf (4) Sapwood is the innermost secondary xylem and is lighter in colour Ans. (4)	11	96
15.	Cuboidal epithelium with brush border of microvilli is found in :	11	101

	(1) eustachian tube (2) lining of intestine (3) ducts of salivary glands (4) proximal convoluted tubule of nephron Ans. (4)		
16.	Goblet cells of alimentary canal are modified from : (1) Compound epithelial cells (2) Squamous epithelial cells (3) Columnar epithelial cells (4) Chondrocytes Ans. (3)	11	102
17.	Which of the following statements are true for the phylum-Chordata ? (a) In Urochordata notochord extends from head to tail and it is present throughout their life. (b) In Vertebrata notochord is present during the embryonic period only. (c) Central nervous system is dorsal and hollow. (d) Chordata is divided into 3 subphyla : Hemichordata, Tunicata and Cephalochordata. (1) (b) and (c) (2) (d) and (c) (3) (c) and (a) (4) (a) and (b) Ans. (1)	11	54,55
18.	If the head of cockroach is removed, it may live for few days because: (1) the head holds a 1/3 <sup>rd</sup> of a nervous system while the rest is situated along the dorsal part of its body. (2) the supra-oesophageal ganglia of the cockroach are situated in ventral part of abdomen. (3) the cockroach does not have nervous system. (4) the head holds a small proportion of a nervous system while the rest is situated along the ventral part of its body. Ans. (4)	11	114
19.	Which of the following statements about inclusion bodies is incorrect ? (1) These represent reserve material in cytoplasm. (2) They are not bound by any membrane. (3) These are involved in ingestion of food particles. (4) They lie free in the cytoplasm. Ans. (3)	11	129
20.	Which is the important site of formation of glycoproteins and glycolipids in eukaryotic cells ? (1) Polysomes (2) Endoplasmic reticulum (3) Peroxisomes (4) Golgi bodies Ans. (4)	11	134
21.	Identify the basic amino acid from the following. (1) Valine (2) Tyrosine (3) Glutamic Acid (4) Lysine Ans. (4)	11	144
22.	Secondary metabolites such as nicotine, strychnine and caffeine are produced by plants for their : (1) Effect on reproduction (2) Nutritive value (3) Growth response	11	146

	(4) Defence action Ans. (4)		
23.	Identify the substances having glycosidic bond and peptide bond, respectively in their structure : (1) Inulin, insulin (2) Chitin, Cholesterol (3) Glycerol, trypsin (4) Cellulose, lecithin Ans. (1)	11	148
24.	Match the following columns and select the correct option. Column-I      Column-II (a) Gregarious, polyphagous pest (i) Asterias (b) Adult with radial symmetry and larva with bilateral symmetry (ii) Scorpion (c) Book lungs (iii) Ctenoplane (d) Bioluminescence (iv) Locusta (a) (b) (c) (d ) (1) (ii) (i) (iii) (iv) (2) (i) (iii) (ii) (iv) (3) (iv) (i) (ii) (iii) (4) (iii) (ii) (i) (iv) Ans. (3)	11	51,53,54
25.	Identify the correct statement with regard to G <sub>1</sub> phase (Gap 1) of interphase. (1) Nuclear Division takes place. (2) DNA synthesis or replication takes place. (3) Reorganisation of all cell components takes place. (4) Cell is metabolically active, grows but does not replicate its DNA. Ans. (4)	11	163
26.	Dissolution of the synaptonemal complex occurs during : (1) Leptotene (2) Pachytene (3) Zygotene (4) Diplotene Ans. (4)	11	168
27.	Match the following with respect to meiosis: (a) Zygotene (i) Terminalization (b) Pachytene (ii) Chiasmata (c) Diplotene (iii) Crossing over (d) Diakinesis (iv) Synapsis Select the correct option from the following: (a) (b) (c) (d) (1) (ii) (iv) (iii) (i) (2) (iii) (iv) (i) (ii) (3) (iv) (iii) (ii) (i) (4) (i) (ii) (iv) (iii) Ans. (3)	11	168
28.	The process responsible for facilitating loss of water in liquid form from the tip of grass blades at night and in early morning is : (1) Plasmolysis (2) Transpiration (3) Root pressure (4) Imbibition Ans. (3)	11	186
29.	The product(s) of reaction catalyzed by nitrogenase in root nodules of leguminous plants is/are :	11	203

	(1) Ammonia and hydrogen (2) Ammonia alone (3) Nitrate alone (4) Ammonia and oxygen Ans. (1)		
30.	In light reaction, plastoquinone facilitates the transfer of electrons from : (1) PS-I to ATP synthase (2) PS-II to Cytb <sub>6</sub> f complex (3) Cytb <sub>6</sub> f complex to PS-I (4) PS-I to NADP <sup>+</sup> Ans. (2)	11	214
31.	The oxygenation activity of RuBisCo enzyme in photorespiration leads to the formation of : (1) 1 molecule of 4-C compound and 1 molecule of 2-C compound. (2) 2 molecules of 3-C compound (3) 1 molecule of 3-C compound (4) 1 molecule of 6-C compound Ans. (3)	11	220
32.	The number of substrate level phosphorylations in one turn of citric acid cycle is : (1) Three (2) Zero (3) One (4) Two Ans. (3)	11	232
33.	Name the plant growth regulator which upon spraying on sugarcane crop, increases the length of stem, thus increasing the yield of sugarcane crop. (1) Abscisic acid (2) Cytokinin (3) Gibberellin (4) Ethylene Ans. (3)	11	249
34.	Identify the correct statement with reference to human digestive system. (1) Vermiform appendix arises from duodenum (2) Ileum opens into small intestine (3) Serosa is the innermost layer of the alimentary canal (4) Ileum is highly coiled part Ans. (4)	11	256
35.	The enzyme enterokinase helps in conversion of : (1) pepsinogen into pepsin (2) protein into polypeptides (3) trypsinogen into trypsin (4) caseinogen into casein Ans. (3)	11	262
36.	Select the correct events that occur during inspiration. (a) Contraction of diaphragm (b) Contraction of external inter-costal muscles (c) Pulmonary volume decreases (d) Intra pulmonary pressure increases (1) only (d) (2) (a) and (b) (3) (c) and (d) (4) (a), (b) and (d) Ans. (2)	11	270
37.	Identify the wrong statement with reference to transport of oxygen. (1) Low pCO <sub>2</sub> in alveoli favours the formation of oxyhaemoglobin.	11	274

(2) Binding of oxygen with haemoglobin is mainly related to partial pressure of O<sub>2</sub>.

(3) Partial pressure of CO<sub>2</sub> can interfere with O<sub>2</sub> binding with haemoglobin.

(4) Higher H<sup>+</sup> conc. in alveoli favours the formation of oxyhaemoglobin.

Ans. (4)

38.	The QRS complex in a standard ECG represents: (1) Repolarisation of ventricles (2) Repolarisation of auricles (3) Depolarisation of auricles (4) Depolarisation of ventricles Ans. (4)	11	286
39.	Which of the following would help in prevention of diuresis ? (1) Decrease in secretion of renin by JG cells (2) More water reabsorption due to undersecretion of ADH (3) Reabsorption of Na <sup>+</sup> and water from renal tubules due to aldosterone (4) Atrial natriuretic factor causes vasoconstriction Ans. (3)	11	297
40.	Select the correct statement. (1) Insulin is associated with hyperglycemia. (2) Glucocorticoids stimulate gluconeogenesis. (3) Glucagon is associated with hypoglycemia. (4) Insulin acts on pancreatic cells and adipocytes. Ans. (2)	11	337
41.	Match the following columns and select the correct option. Column - I                      Column - II (a) Organ of Corti (i) Connects middle ear and pharynx (b) Cochlea (ii) Coiled part of the labyrinth (c) Eustachian tube (iii) Attached to the oval window (d) Stapes (iv) Located on the basilar membrane (a) (b) (c) (d) (1) (i) (ii) (iv) (iii) (2) (ii) (iii) (i) (iv) (3) (iii) (i) (iv) (ii) (4) (iv) (ii) (i) (iii) Ans. (4)	11	325, 326
42.	Which of the following is the most abundant protein in the animals ? (1) Insulin (2) Haemoglobin (3) Collagen (4) Lectin Ans. (3)	11	148,151
43.	Some dividing cells exit the cell cycle and enter vegetative inactive stage. This is called quiescent stage (G <sub>0</sub> ). This process occurs at the end of : (1) G <sub>2</sub> phase (2) M phase (3) G <sub>1</sub> phase (4) S phase Ans. (2/3)	11	163,164 (P)
44.	Match the following concerning essential elements and their functions in plants : (a) Iron (i) Photolysis of water (b) Zinc (ii) Pollen germination (c) Boron (iii) Required for chlorophyll biosynthesis (d) Manganese (iv) IAA biosynthesis Select the correct option :	11	197,198

	(a) (b) (c) (d ) (1) (iv) (i) (ii) (iii) (2) (ii) (i) (iv) (iii) (3) (iv) (iii) (ii) (i) (4) (iii) (iv) (ii) (i) Ans. (4)		
45.	135. Which of the following is not an inhibitory substance governing seed dormancy? (1) Para-ascorbic acid (2) Gibberellic acid (3) Abscisic acid (4) Phenolic acid Ans. (2)	11	249,250
46.	Match the following columns and select the correct option. Column - I                  Column - II (a) Floating Ribs (i) Located between second and seventh ribs (b) Acromion (ii) Head of the Humerus (c) Scapula (iii) Clavicle (d) Glenoid cavity (iv) Do not connect with the sternum (a) (b) (c) (d) (1) (iv) (iii) (i) (ii) (2) (ii) (iv) (i) (iii) (3) (i) (iii) (ii) (iv) (4) (iii) (ii) (iv) (i) Ans. (1)	11	310,311
47.	Match the following columns and select the correct option : Column-I                  Column-II (a) Pituitary gland (i) Grave's disease (b) Thyroid gland (ii) Diabetes mellitus (c) Adrenal gland (iii) Diabetes insipidus (d) Pancreas (iv) Addison's disease (a) (b) (c) (d) (1) (ii) (i) (iv) (iii) (2) (iv) (iii) (i) (ii) (3) (iii) (ii) (i) (iv) (4) (iii) (i) (iv) (ii) Ans. (4)	11	334,335, 336,338
48.	Match the following columns and select the correct option. Column-I          Column-II (a) Placenta (i) Androgens (b) Zona pellucida (ii) Human Chorionic Gonadotropin (hCG) (c) Bulbo-urethral glands (iii) Layer of the ovum (d) Leydig cells (iv) Lubrication of the Penis (a) (b) (c) (d) (1) (ii) (iii) (iv) (i) (2) (iv) (iii) (i) (ii) (3) (i) (iv) (ii) (iii) (4) (iii) (ii) (iv) (i) Ans. (1)	12	MIXED
49.	The body of the ovule is fused within the funicle at: (1) Chalaza (2) Hilum (3) Micropyle (4) Nucellus	12	25

	Ans. (2)		
50.	In water hyacinth and water lily, pollination takes place by : (1) insects and water (2) insects or wind (3) water currents only (4) wind and water Ans. (2)	12	29
51.	Strobili or cones are found in : (1) Equisetum (2) Salvinia (3) Pteris (4) Marchantia Ans. (1)	12	36
52.	Which of the following hormone levels will cause release of ovum (ovulation) from the graffian follicle? (1) Low concentration of FSH (2) High concentration of Estrogen (3) High concentration of Progesterone (4) Low concentration of LH Ans. (2)	12	51
53.	Select the option including all sexually transmitted diseases. (1) Cancer, AIDS, Syphilis (2) Gonorrhoea, Syphilis, Genital herpes (3) Gonorrhoea, Malaria, Genital herpes (4) AIDS, Malaria, Filaria Ans. (2)	12	63
54.	In which of the following techniques, the embryos are transferred to assist those females who cannot conceive? (1) GIFT and ICSI (2) ZIFT and IUT (3) GIFT and ZIFT (4) ICSI and ZIFT Ans. (2)	12	64
55.	How many true breeding pea plant varieties did Mendel select as pairs, which were similar except in one character with contrasting traits? (1) 8 (2) 4 (3) 2 (4) 14 Ans. (4)	12	70
56.	Identify the wrong statement with reference to the gene 'I' that controls ABO blood groups. (1) Allele 'i' does not produce any sugar. (2) The gene (I) has three alleles. (3) A person will have only two of the three alleles. (4) When I <sup>A</sup> and I <sup>B</sup> are present together, they express same type of sugar. Ans. (4)	12	77
57.	Experimental verification of the chromosomal theory of inheritance was done by: (1) Morgan (2) Mendel (3) Sutton (4) Boveri Ans. (1)	12	83
58.	Select the correct match. (1) Thalassemia - X linked	12	90



	(2) Haemophilia - Y linked (3) Phenylketonuria - Autosomal dominant trait (4) Sickle cell anaemia - Autosomal recessive trait, chromosome-11 Ans. (4)		
59.	Which of the following statements is correct ? (1) Adenine does not pair with thymine (2) Adenine pairs with thymine through two H-bonds (3) Adenine pairs with thymine through one H-bond (4) Adenine pairs with thymine through three H-bonds Ans. (2)	12	97
60.	If the distance between two consecutive base pairs is 0.34 nm and the total number of base pairs of a DNA double helix in a typical mammalian cell is $6.6 \times 10^9$ bp, then the length of the DNA is approximately : (1) 2.7 meters (2) 2.0 meters (3) 2.5 meters (4) 2.2 meters Ans. (4)	12	99
61.	Meiotic division of the secondary oocyte is completed : (1) At the time of fusion of a sperm with an ovum (2) Prior to ovulation (3) At the time of copulation (4) After zygote formation Ans. (1)	12	51,52
62.	Choose the correct pair from the following : (1) Exonucleases :Make cuts at specific positions within DNA (2) Ligases :Join the two DNA molecules (3) Polymerases :Break the DNA into fragments (4) Nucleases :Separate the two strands of DNA Ans. (2)	12	106
63.	The first phase of translation is : (1) Recognition of an anti-codon (2) Binding of mRNA to ribosome (3) Recognition of DNA molecule (4) Aminoacylation of tRNA Ans. (4)	12	114
64.	From his experiments, S.L. Miller produced amino acids by mixing the following in a closed flask : (1) CH <sub>3</sub> , H <sub>2</sub> , NH <sub>3</sub> and water vapor at 600°C (2) CH <sub>4</sub> , H <sub>2</sub> , NH <sub>3</sub> and water vapor at 800°C (3) CH <sub>3</sub> , H <sub>2</sub> , NH <sub>4</sub> and water vapor at 800°C (4) CH <sub>4</sub> , H <sub>2</sub> , NH <sub>3</sub> and water vapor at 600°C Ans. (2)	12	127
65.	Embryological support for evolution was disapproved by : (1) Oparin (2) Karl Ernst von Baer (3) Alfred Wallace (4) Charles Darwin Ans. (2)	12	129
66.	Flippers of Penguins and Dolphins are examples of: (1) Natural selection (2) Adaptive radiation (3) Convergent evolution (4) Industrial melanism Ans. (3)	12	131

67.	Which of the following refer to correct example(s) of organisms which have evolved due to changes in environment brought about by anthropogenic action? (a) Darwin's Finches of Galapagos islands. (b) Herbicide resistant weeds. (c) Drug resistant eukaryotes. (d) Man-created breeds of domesticated animals like dogs. (1) Only (d) (2) Only (a) (3) (a) and (c) (4) (b), (c) and (d) Ans. (4)	12	132
68.	The infectious stage of Plasmodium that enters the human body is : (1) Male gametocytes (2) Trophozoites (3) Sporozoites (4) Female gametocytes Ans. (3)	12	147
69.	Identify the wrong statement with reference to immunity. (1) Foetus receives some antibodies from mother, it is an example for passive immunity. (2) When exposed to antigen (living or dead) antibodies are produced in the host's body. It is called "Active immunity". (3) When ready-made antibodies are directly given, it is called "Passive immunity". (4) Active immunity is quick and gives full response. Ans. (4)	12	152
70.	By which method was a new breed 'Hisardale' of sheep formed by using Bikaneri ewes and Marino rams ? (1) Inbreeding (2) Out crossing (3) Mutational breeding (4) Cross breeding Ans. (4)	12	168
71.	Match the following columns and select the correct option. Column - I    Column - II (a) Clostridium butylicum (i) Cyclosporin - A (b) Trichoderma polysporum (ii) Butyric Acid (c) Monascus purpureus (iii) Citric Acid (d) Aspergillus niger (iv) Blood cholesterol lowering agent (a) (b) (c) (d) (1) (iv) (iii) (ii) (i) (2) (iii) (iv) (ii) (i) (3) (ii) (i) (iv) (iii) (4) (i) (ii) (iv) (iii) Ans. (3)	12	183
72.	Which of the following is put into Anaerobic sludge digester for further sewage treatment ? (1) Activated sludge (2) Primary sludge (3) Floating debris (4) Effluents of primary treatment Ans. (1)	12	184
73.	Identify the wrong statement with regard to Restriction Enzymes. (1) Sticky ends can be joined by using DNA ligases.	12	196

(2) 12 restriction enzyme functions by inspecting the length of a DNA sequence.  
 (3) They cut the strand of DNA at palindromic sites.  
 (4) They are useful in genetic engineering.  
 Ans. (1)

74.	The specific palindromic sequence which is recognized by EcoRI is : (1) 5' - GGATCC - 3' 3' - CCTAGG - 5' (2) 5' - GAATTC - 3' 3' - CTTAAG - 5' (3) 5' - GGAACC - 3' 3' - CCTTGG - 5' (4) 5' - CTTAAG - 3' 3' - GAATTC - 5' Ans. (2)	12	196
75.	In gel electrophoresis, separated DNA fragments can be visualized with the help of : (1) Ethidium bromide in infrared radiation (2) Acetocarmine in bright blue light (3) Ethidium bromide in UV radiation (4) Acetocarmine in UV radiation Ans. (3)	12	198
76.	The sequence that controls the copy number of the linked DNA in the vector, is termed : (1) Recognition site (2) Selectable marker (3) Ori site (4) Palindromic sequence Ans. (3)	12	199
77.	Which of the following statements is not correct ? (1) Genetically engineered insulin is produced in E-Coli. (2) In man insulin is synthesised as a proinsulin. (3) The proinsulin has an extra peptide called C-peptide. (4) The functional insulin has A and B chains linked together by hydrogen bonds. Ans. (4)	12	211
78.	Which of the following is not an attribute of a population? (1) Species interaction (2) Sex ratio (3) Natality (4) Mortality Ans. (1)	12	227
79.	The process of growth is maximum during : (1) Dormancy (2) Log phase (3) Lag phase (4) Senescence Ans. (2)	12	231
80.	In relation to Gross primary productivity and Net primary productivity of an ecosystem, which one of the following statements is correct ? (1) There is no relationship between Gross primary productivity and Net primary productivity. (2) Gross primary productivity is always less than net primary productivity. (3) Gross primary productivity is always more than net primary productivity. (4) Gross primary productivity and Net primary productivity are one and same. Ans. (3)	12	243

81.	Match the trophic levels with their correct species examples in grassland ecosystem. (a) Fourth trophic level (i) Crow (b) Second trophic level (ii) Vulture (c) First trophic level (iii) Rabbit (d) Third trophic level (iv) Grass Select the correct option : (a) (b) (c) (d) (1) (i) (ii) (iii) (iv) (2) (ii) (iii) (iv) (i) (3) (iii) (ii) (i) (iv) (4) (iv) (iii) (ii) (i) Ans. (2)	12	246
82.	According to Robert May, the global species diversity is about : (1) 7 million (2) 1.5 million (3) 20 million (4) 50 million Ans. (1)	12	259
83.	Montreal protocol was signed in 1987 for control of : (1) Disposal of e-wastes (2) Transport of Genetically modified organisms from one country to another (3) Emission of ozone depleting substances (4) Release of Green House gases Ans. (3)	12	283
84.	Snow-blindness in Antarctic region is due to : (1) Damage to retina caused by infra-red rays (2) Freezing of fluids in the eye by low temperature (3) Inflammation of cornea due to high dose of UV-B radiation (4) High reflection of light from snow Ans. (3)	12	283
85.	Presence of which of the following conditions in urine are indicative of Diabetes Mellitus ? (1) Renal calculi and Hyperglycaemia (2) Uremia and Ketonuria (3) Uremia and Renal Calculi (4) Ketonuria and Glycosuria Ans. (4)	12	338
86.	Match the organism with its use in biotechnology. (a) Bacillus thuringiensis (i) Cloning vector (b) Thermus aquaticus (ii) Construction of first rDNA molecule (c) Agrobacterium tumefaciens (iii) DNAPolymerase (d) Salmonella typhimurium (iv) Cry proteins Select the correct option from the following: (a) (b) (c) (d) (1) (iii) (iv) (i) (ii) (2) (ii) (iv) (iii) (i) (3) (iv) (iii) (i) (ii) (4) (iii) (ii) (iv) (i) Ans. (3)	12	203,209
87.	Match the following columns and select the correct option. Column - I    Column - II (a) Eosinophils (i) Immune response (b) Basophils (ii) Phagocytosis (c) Neutrophils (iii) Release histaminase, destructive enzymes (d) Lymphocytes (iv) Release granules containing histamine	12	279,280

	(a) (b) (c) (d) (1) (ii) (i) (iii) (iv) (2) (iii) (iv) (ii) (i) (3) (iv) (i) (ii) (iii) (4) (i) (ii) (iv) (iii) Ans. (2)		
88.	Match the following diseases with the causative organism and select the correct option. Column - I    Column - II (a) Typhoid (i) Wuchereria (b) Pneumonia (ii) Plasmodium (c) Filariasis (iii) Salmonella (d) Malaria (iv) Haemophilus (a) (b) (c) (d) (1) (iv) (i) (ii) (iii) (2) (i) (iii) (ii) (iv) (3) (iii) (iv) (i) (ii) (4) (ii) (i) (iii) (iv) Ans. (3)	12	146,147, 149
89.	Match the following columns and select the correct option. Column - I    Column - II (a) Bt cotton (i) Gene therapy (b) Adenosine deaminase deficiency (ii) Cellular defence (c) RNAi (iii) Detection of HIV infection (d) PCR (iv) Bacillus thuringiensis (a) (b) (c) (d) (1) (i) (ii) (iii) (iv) (2) (iv) (i) (ii) (iii) (3) (iii) (ii) (i) (iv) (4) (ii) (iii) (iv) (i) Ans. (2)	12	208,209, 211
90.	Bt cotton variety that was developed by the introduction of toxin gene of Bacillus thuringiensis (Bt) is resistant to : (1) Insect predators (2) Insect pests (3) Fungal diseases (4) Plant nematodes Ans. (2)	12	208,209, 211