

Note:

Four possible answers A, B, C and D to each question are given. The choice which you think is correct, fill that circle in front of that question with Marker or Pen ink in the answer book. Cutting or filling two or more circles will result in zero mark in that question.

- 1.1** The destruction of the walls of alveoli is:
 Ⓐ Bronchitis Ⓑ Emphysema
 Ⓒ Pneumonia Ⓓ Asthma
- 2** Treatment for the end stage kidney failure is:
 Ⓐ Lithotripsy Ⓑ Peritoneal dialysis
 Ⓒ Haemodialysis Ⓓ Kidney transplant
- 3** Hormone responsible for male secondary sex characters is:
 Ⓐ Estrogen Ⓑ Progesterone
 Ⓒ Testosterone Ⓓ Glucagon
- 4** The inflammation of the membranes at joints is:
 Ⓐ Osteoporosis Ⓑ Osteoarthritis
 Ⓒ Rheumatoid arthritis Ⓓ Gout
- 5** Vegetative propagation by leaves is found in:
 Ⓐ Bryophyllum Ⓑ Mint
 Ⓒ Yams Ⓓ Calocacia
- 6** An insect pollinated flower is:
 Ⓐ Grass Ⓑ Sunflower
 Ⓒ Willow Ⓓ Corn
- 7** The genotype having identical alleles in a gene pair is called:
 Ⓐ Azygous Ⓑ Hemizygous
 Ⓒ Heterozygous Ⓓ Homozygous
- 8** Theory of natural selection was proposed by:
 Ⓐ Charles Darwin Ⓑ C de Buffon
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- 9** Ⓒ J. de Lamarck Ⓑ Gregor Mendel
 The self-sufficient unit of an environment is:
 Ⓐ Biosphere Ⓑ Ecosystem
 Ⓒ Community Ⓓ Population
- 10** The principal building block of many biomolecules is:
 Ⓐ Nitrogen Ⓑ Hydrogen
 Ⓒ Oxygen Ⓓ Carbon
- 11** In glycolysis the glucose molecule is broken into two molecules of:
 Ⓐ Ethanol Ⓑ Lactic acid
 Ⓒ Pyruvic acid Ⓓ Acetic acid
- 12** Mescaline comes from:
 Ⓐ Mushroom Ⓑ Cactus
 Ⓒ Cannabis Ⓓ Morning glory

UNSOLVED**Biology****Tenth, 2025
Lahore Board****Group – I****Time: 1.45 hrs.****Subjective****Marks : 48****PART – I****Q.2 Write short answers to any FIVE (5) questions: 10**

- i Write symptoms of pneumonia.
- ii How smoking effects badly on human health? Write any two effects.
- iii How will you differentiate between acute bronchitis and chronic bronchitis?
- iv Define cellular respiration.
- v What is lithotripsy?
- vi Write any two major causes of kidney failure.
- vii Write down functions of hypothalamus.
- viii Write name of three parts of inner ear of man.

Q.3 Write short answers to any FIVE (5) questions: 10

- i Write name of ends of skeletal muscle.
- ii What are the characteristics of gout?
- iii Explain corms.
- iv Write disadvantages of vegetative propagation in plants.

- v What is co-dominance? Give example.
- vi What is meant by inheritance in biology?
- vii Define homologous chromosomes.
- viii What is meant by nucleosomes?

Q.4 Write short answers to any FIVE (5) questions: 10

- i Describe two methods of nitrogen fixation.
- ii Compare mutualism and commensalism.
- iii Compare ecosystem and biosphere.
- iv Write two effects of global warming.
- v Write uses of glycerol.
- vi How gene of interest is isolated in genetic engineering?
- vii What are antibiotics? Also give example.
- viii Define pharmacology and pharmacologist.

PART – II**Note: Attempt any TWO questions.**

- Q.5(a)** Write detail of kidney transplant. 5
- (b)** Explain components of human skeleton. 4
- Q.6(a)** Write a note on nerve cell or neuron. 5
- (b)** Discuss the techniques of tissue culture and cloning. 4
- Q.7(a)** Describe the achievements of genetic engineering in medicine, agriculture and environment. 5
- (b)** Write a note on resistance against antibiotics. 4