



Name

1- ہر سوال کے سامنے چار دائرے دئے گئے ہیں، صرف صحیح جواب والا دائرہ بھریں۔

2- دائروں کو شیڈ (بھرنے) کے لئے نیلے یا کالے رنگ کا مارکر استعمال کریں۔

Roll No

3- جواب میں ایک سے زائد دائرے بھرنے سے جواب غلط تصور ہوگا۔

Time Allowed: 20 Minutes

SECTION – A

Marks : 18

- | | | | | | |
|----|---|--|--|---|--|
| 1 | DNA is a negatively charged molecule because of..... | <input type="radio"/> Histone molecules | <input checked="" type="radio"/> Phosphate group | <input type="radio"/> Nitrogen bases | <input type="radio"/> De-oxyribose sugar |
| 2 | Catastrophism theory of evolution was proposed by..... | <input checked="" type="radio"/> George Cuvier | <input type="radio"/> Charles Lyell | <input type="radio"/> Hutton | <input type="radio"/> Aristotle |
| 3 | The average percentage of net energy production from one trophic level to pass to next level. | <input checked="" type="radio"/> 10% | <input type="radio"/> 20% | <input type="radio"/> 30% | <input type="radio"/> 40% |
| 4 | The two possible ways of cloning a gene are recombinant DNA technology and..... | <input type="radio"/> Gene splicing | <input checked="" type="radio"/> PCR | <input type="radio"/> Gel electrophoresis | <input type="radio"/> DNA sequencing |
| 5 | Breeding and management of farm animals is called..... | <input type="radio"/> Dairy forming | <input type="radio"/> Live stock | <input type="radio"/> Animal husbandry | <input checked="" type="radio"/> All these |
| 6 | Approximately the amount of oxygen carried by blood plasma is..... | <input type="radio"/> 2% | <input checked="" type="radio"/> 3% | <input type="radio"/> 4% | <input type="radio"/> 5% |
| 7 | Animals whose body fluids have different solute concentration to that of external environment are called..... | <input type="radio"/> Osmoconformer | <input checked="" type="radio"/> Osmoregulator | <input type="radio"/> Thermoregulator | <input type="radio"/> Both A and B |
| 8 | The total number of spinal nerves in human are..... | <input type="radio"/> 5 pairs | <input type="radio"/> 8 pairs | <input type="radio"/> 12 pairs | <input checked="" type="radio"/> 31 pairs |
| 9 | Universal donor for blood transfusion is a person having blood group..... | <input type="radio"/> A | <input type="radio"/> B | <input type="radio"/> AB | <input checked="" type="radio"/> O |
| 10 | Involuntary control of breathing is carried out by a breathing centre located in the..... | <input checked="" type="radio"/> Cerebrum | <input type="radio"/> Cerebellum | <input type="radio"/> Pons | <input type="radio"/> Medulla oblongata |
| 11 | The maintenance of sodium level at a steady state is controlled by..... | <input type="radio"/> Testosterone | <input checked="" type="radio"/> Aldosterone | <input type="radio"/> Progesterone | <input type="radio"/> Antidiuretic Hormone |
| 12 | Axial skeleton of human consists of skull, vertebral column and..... | <input type="radio"/> Fore arm | <input type="radio"/> Pelvic girdle | <input type="radio"/> Pectoral girdle | <input checked="" type="radio"/> Ribs |
| 13 | Sensory neuron is..... | <input type="radio"/> Bipolar | <input type="radio"/> Tripolar | <input checked="" type="radio"/> Mono polar | <input type="radio"/> Multi polar |
| 14 | Parturition is facilitate by a hormone..... | <input checked="" type="radio"/> Oxytocin | <input type="radio"/> Antidiuretic hormone | <input type="radio"/> Thyroid stimulating hormone | <input type="radio"/> Lutenizing hormone |
| 15 | Which is true about learning behaviour..... | <input type="radio"/> Heritable | <input checked="" type="radio"/> Extrinsic | <input type="radio"/> Intrinsic | <input type="radio"/> Stereotype |
| 16 | The enzyme which helps the sperm in penetration of an egg..... | <input checked="" type="radio"/> Hyaluroxidase | <input type="radio"/> Amylase | <input type="radio"/> Hydrogen peroxidase | <input type="radio"/> Hydrogenase |
| 17 | The newly born baby usually cries due to..... | <input checked="" type="radio"/> Fall in temperature | <input type="radio"/> Disconnection from mother | <input type="radio"/> Oxygen deficiency | <input type="radio"/> Delivery trauma |
| 18 | Baldness in human is which type of trait? | <input checked="" type="radio"/> Sex influenced | <input type="radio"/> Sex limited | <input type="radio"/> Sex linked | <input type="radio"/> Sex related |

1-502

PR XII (01) 19
BIOLOGY (New)
Inter Part-II
(Fresh/Reappear)

Note: Time allowed for Section – B and Section – C is 2 Hours and 40 minutes.

Section – B

Marks: 40

Q-II Answer any TEN parts. Each part carries FOUR marks.

1. Differentiate among Trachea and Bronchi.
2. How terrestrial animals can do osmoregulation?
3. Draw labeled diagram of composition of Sarcomere.
4. What is Nicotine? Write medical uses and misuses of this drug.
5. Why pancreas is known as double gland?
6. Write a brief note on biological rhythms.
7. What is menstrual cycle? Write briefly three sub-stages of this cycle.
8. What is importance of cleavage?
9. Why pea was the most suitable plant for Mendel's experiments?
10. What is sickle cell anemia? Write causes, symptoms and treatment of this disease.
11. Give arguments in favour of evolution in the light of comparative embryology.
12. Write only four problems related to rapid growth in human population.
13. Write four components of PCR technique very briefly.

Section – C

Marks: 27

Note : Attempt any THREE questions. All questions carry equal marks.

Q-III Describe the mechanism of transport of oxygen in the blood.

Q-IV What is polygenic inheritance? Explain its mode of inheritance by taking an example in human.

Q-V Describe structure and function of human spinal cord.

Q-VI Write note on the following:

- (a) Pyramid of energy
- (b) Taq polymerase