



Model Question Paper

Biology

(10 Class)

Maximum Marks : 40

Time : 2.30 mts.

I. Write answers to the following questions.

Each question carries four marks.

(4 × 4 = 16)

1. Write reasons for the following.

- (i) In blood circulation why blood from stomach and intestine transport through liver and to heart. Why not directly to heart ?
- (ii) Before blood transfusion why donor has to know the blood group of recipient.
- (iii) Veins are only valves. Why valves are absent in arteries ?
- (iv) Why arteries are situated in deeper parts of the body ? (A.S-1)

2. A boy conducted an experiment factors responsible for photosynthesis. He took a plant grown in a pot. He kept the potted plant in dark for 24 hrs. Second day morning he fixed a black paper in the middle of selected leaf and kept the potted plant in sunlight for few hours. Write answers to the following questions.

- (i) What factor he wants to know in photosynthesis ? Why ? (A.S-3)
- (ii) Is there any control in this experiment ? Describe if is it ?
- (iii) Before conducting experiment why he kept the plant in dark for 24 hours.
- (iv) Write different steps student conducting experiments to recognise the presence of carbohydrates.

3. Analyse the table given below.

Animal Name	Weight of the body	Heart weight	Heart beat for minutes
Blue Whale	1,50,000 kgs	750 kgs	7
Elephant	3000 kgs	12 - 21 kgs	46
Human man	60 - 70 kgs	300 grams	70 - 80
Coaltit bird	8 grams	0 - 15 grams	1200



1. In the above table which animal is with more body weight ?
 2. Reason for heart weight less than body weight ?
 3. What is the relation between weight of the body and weight of the heart.
 4. Why rate of heart beat is more in animals with less weight.
 5. Why rate of heart beat is less in animals with more body weight.
 6. What is the relationship between weight of the heart and its number of heart beats.
4. What is dialysis ? In what conditions dialysis is conduct ? Describe the process of dialysis with a diagram. (A.S-1)

II. Short answer questions.

(6 × 2 = 12)

1. Write differences between Harmones and enzymes. (A.S-1)
2. Why Mendal selected pea plants for his genetic experiments (A.S-1)
3. Describe double circuit circulation with the help of a diagram.
4. What will happen if natural resources are exhaust rapidly. (A.S-6)
5. If decomposers are eleminated from food web what will happen.
6. When we get angry it doesn't stay for a long time and it controlled after sometime. What is the reason ?

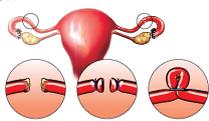
III. Very short answer questions.

(7 × 1 = 7)

1. Why blood should maintain congstant osmotic blood pressure ?
2. What is difference between Reflex arc and
3. What questions you will ask in an interview a person using vehicle on the consumption of petrol.
4. Is there any difference in number of chromosomes when 8 months child is compared with 18 years old person.
5. How Basophills are different from Neutrophills ?
6. Draw a diagram of food in Oesophagus. The process of movement is called.
7. Write two slogans on the wastage of electricity to make awareness to the people.



IV. Multiple choice questions.

1. What factor doesn't increase the rate of respiration. ()
a) light intensity b) humidity c) temperature d) గాఢత
2. Nerve impulse takes place with ()
a) Ventricular systole b) Ventricular diastole
c) Auricular systole d) None
3. Reflex arc is controlled by ()
a) Brain b) Vertebral column
c) Autonomous nervous system d) Paripharal nervous system
4. What is the life span of Carpus leuteum after pregnancy ()
a) 4 days b) 10 days c) 14 days d) 25 days
5. Reason for yellow colour of urine ()
a) Urochrome b) Vasopressin c) Creatine d) Oestrogen
6. Stopping the usage of insecticides means ()
a) Control on using insecticides
b) Ban on insecticides
c) Fallowing Eco-friendly agricultural methods
d) Bio-chemical reaction
7. Use of soaking pit ()
a) Supply water to irrigation b) To increase underground water level
c) Storage of rain water d) To stop floods in rainy season
8. Given diagram shows what ()

a) Surgery to heart valve b) Surgery to Ureters
c) Surgery to spermatozoa d) Surgery to female falloplan tube
9. Reasons for decrease of ground water ()
a) less rain fall b) deforestation c) No controll on borewells d) All
10. A tank filled completely with pistia plants means ()
a) formation of imbalance in Ecosystem b) increase of producers
c) decrease of consumers d) All