



TEST PAPER: BIOLOGY

Time: 45 Minutes

Class: CBSE 10

Max. Marks: 30 Marks

Date: 8th Aug 2018

Marking Scheme: All questions carry 10 marks each. Subparts (A) and (B) carry 3 marks each and subpart (C) carries 4 marks.

Question 1:

A. Give reason.

1. Variation is important for population.
2. Prenatal sex determination has been prohibited by law.
3. Why is DNA copying is an essential part of the process reproduction?

B. Choose the correct option.

1. The two oviducts in a human female unite into an elastic bag like is known as
a. Vagina b. Uterus c. Cervix d. Fallopian tube
2. Which of the following disease is transmitted sexually?
a. Syphilis b. Jaundice c. Cholera d. TB
3. Which of the following is a contraceptive?
a. Copper T b. Condom c. Diaphragm d. All of these
4. When an animal is cut into pieces and each piece grows into a complex organism. What is the process?
a. Budding b. Fragmentation c. Spore formation d. Regeneration
5. Which is the portion on which grafting is done that provides the roots?
a. Stock b. Scion c. Both a and b d. None of these
6. Where does fertilization occur in human females?
a. Uterus b. Cervix c. Oviduct d. Fallopian tube.

C. Explain.

1. Implantation.
2. Placenta.
3. What is the average duration of human pregnancy?
4. How does the embryo get nourishment inside the mother's body?

Question 2.

A. Differentiate (two each).

1. Regeneration & fragmentation.
2. Binary & multiple fission.
3. Sexual & asexual reproduction.

B. A lady died due to complication in pregnancy in a hospital where MTP was not legalized. Now explain-

- a. Do you think the decision of the hospital was correct?
- b. What are the situations where MTP can be advised?
- c. Give two different ways she could have avoided pregnancy.

C. Explain. 1. If an ovum is fertilized, what the fertilized cell is called? How the uterus prepares for it?

2. What happens when the Egg is not fertilized? Explain in detail.

Question 3.

A. Answer the following.

1. What is reproduction?
2. How will an organism be benefited if it reproduces through spores? Give an example.
3. Why is vegetative propagation practiced by farmers for growing some types of plants?

B. Explain.

1. How do flowers reward their insect pollinators? Explain. What value does this relationship illustrate?
2. Due to increased health facilities and better living conditions human population is growing at an exponential rate. Is it morally correct for one species to grow at this rate? Justify your answer.

C. State the functions.

- a. Testis
- b. Ovaries
- c. Vas deferens
- d. Seminal vesicles