

SEMESTER-TWO

BIOLOGY

Class XI

Sample Paper—1

Max. Marks: 50

Time Allowed: 90 minutes

General Instructions:

- (i) This question paper consists of 45 questions in 5 sections.
- (ii) Section A consists of 10 Objective type questions carrying 1 mark each.
- (iii) Section B consists of 10 Fill in the blanks type questions carrying 1 mark each.
- (iv) Section C consists of 10 True or False statement type questions carrying 1 mark each.
- (v) Section D consists of 10 Very short answer type questions carrying 1 mark each.
- (vi) Section E consists of 5 Short answer type questions carrying 2 marks each.

Section A

Select and write one most appropriate option out of the four options given for each of the questions 1 – 10.

1. Select the correct statement about G1 phase.
 - (a) DNA in the cell does not replicate.
 - (b) Cell is metabolically active.
 - (c) Cell stops growing.
 - (d) It is a larger growth phase for the cell.
2. In mitosis, cell division occurs in
 - (a) germ cells
 - (b) somatic cells
 - (c) roots only
 - (d) shoots only

3. The first stage of cell division is called
 - (a) prophase
 - (b) interphase
 - (c) metaphase
 - (d) Anaphase
4. New individuals produced are genetically identical to the single parent in
 - (a) Sexual reproduction
 - (b) Asexual reproduction
 - (c) Conjugation
 - (d) Fertilization
5. A type of reproduction found in Spirogyra is
 - (a) Spore formation
 - (b) Fragmentation
 - (c) Budding
 - (d) Fission
6. The male and female gametes are formed as a result of
 - (a) Mitosis
 - (b) Meiosis
 - (c) Either mitosis or meiosis
 - (d) None of them
7. The zygote is the future foetus which is _____ in nature.
 - (a) Haploid
 - (b) Diploid
 - (c) Triploid
 - (d) Tetraploid
8. Their skin is covered with scales.
 - (a) fishes
 - (b) dogs
 - (c) cats
 - (d) rats
9. They obtain oxygen dissolved in water by using gills.
 - (a) cats
 - (b) dogs
 - (c) elephants
 - (d) fishes
10. They are basically terrestrial, but require water for breeding.
 - (a) Reptiles
 - (b) Amphibia
 - (c) Aves
 - (d) Mammals

Section B

Fill in the blanks with a suitable word for each of the questions 11 – 20.

11. This occurs in nucleus in eukaryotic cells _____.
12. This RNA is the hereditary material in some viruses called riboviruses _____.
13. Thynine and cynocine are types of this _____.
14. It is the process of copying genetic information from one strand of the DNA into RNA _____.

15. These are the two genes which occurs on the same locus _____.
16. This is the external appearance of the body _____.
17. It is the genetic constitution of an organism _____.
18. It is caused by recessive gene X_n located in the X-chromosome _____.
19. This variation refers to small, indistinct difference from normal condition _____.
20. Morgan choose this for the study of linkage _____.

Section C

State whether the following statements are true or false for each of the questions 21–30.

21. Vertebrates are advanced chordates
22. Fishes are exclusively water living animals.
23. Fertilization is external in cartilaginous fishes.
24. Turtle is an example of Amphibia.
25. Torpedo is also known as electric ray.
26. Exocoetus is a marine Fish. Which often takes a leap from water.
27. When the tadpole hatches, it looks more like a frog.
28. Frog and Toads are both reptiles.
29. A toad's nose is much broader in shape that that of a frog.
30. Reptiles are important as food sources for people such as Green iguanas, a type of large lizard, are eaten in Central America.

Section D

Answer each of the questions 31 – 35.

31. Give an example of a bony fish.
32. Give an example of a cartilaginous fish.
33. Write one characteristic of amphibia.
34. What do you understand by vertebrates?
35. What is Endoskeleton?

Section E

Answer each of the questions 36 – 40.

- 36.** What is Abstinence?
- 37.** What is Abused drug?
- 38.** What is Cell cycle?
- 39.** What is Cell division?
- 40.** What is Conjugation?