

BIOLOGY

2017

Time: 2 ½ Hours

9th Class Karachi Board

Max. Marks: 68

SECTION "B" (SHORT-ANSWER QUESTIONS)

ZOOLOGY

(MARKS 21)

NOTE: Answer 7 questions from this section.

2. Write three differences between Prokaryotic cell and Eukaryotic cell.
3. Draw a neat and labeled diagram of Ventral view of heart of Frog.
4. Write three characteristics of Phylum Arthropoda.
5. Draw a neat and labeled diagram of a rod shaped Bacterium.
6. Define Metamorphosis and write its two types.
7. Name any three endocrine glands also write one hormone secreted by each gland.
8. Write any three differences between sexual reproduction and asexual reproduction.
9. Write three differences between Arteries and Veins.
10. Define: (i) Mitosis (ii) Nucleus (iii) Plastids
11. Name three components of cigarette smoke and write their harmful effects on human health.

BOTANY

(MARKS 21)

NOTE: Answer 7 questions from this section.

12. Write three differences between Dicot plant and Mono cot plant.
13. Draw a neat and labeled diagram of an Adiantum plant.
14. Write three differences between combustion and photosynthesis.
15. Define: (i) Parasites (ii) Saprophytes (iii) Insectivorous plant
16. Define germination and write the names of two kinds of germination.
17. Write short note on Flora of Pakistan.
18. Define three types of movement in plants.
19. Define pollution. Write names of any two types of pollution.
20. Define: (i) Alleles (ii) Homozygous (iii) Dominant character.
21. What is pollination? Write about its two types.

SECTION 'C' (DETAILED-ANSWER QUESTIONS)

ZOOLOGY

(MARKS 14)

NOTE: Attempt 2 questions from this section.

22. Draw a neat and labeled diagram of human digestive system.
23. Describe Darwin's theory of Evolution and explain important points of this theory in detail.
24. What is tissue? Describe animal tissues in detail with the help of labeled diagram.

(DETAILED-ANSWER QUESTIONS)

BOTANY

(MARKS 14)

NOTE: Attempt 2 questions from this section.

25. Describe an experiment to prove that Carbon dioxide is essential for photosynthesis. Draw its labelled diagram.
26. What is meant by Dispersal of Seeds and Fruits? Describe different methods of dispersal.
27. Draw a neat and labeled diagram of the transverse section of Brassica stem.