

V11Bio

Virudhunagar District

Common First Revision Test - January 2025



Standard 11

Time Allowed: 3.00 Hours

BIOLOGY

Maximum Marks: 70

PART - I [BIO-BOTANY]

Marks: 35

Section - I

Note: 1. Answer all the questions.

8×1=8

2. Choose the correct answer and write it with their options.

1) Choose the correct statements:

- i) Stromatolites are related with Archaeobacteria.
- ii) Viroid is a circular molecule of ssRNA without a caploid.
- iii) Candidiasis is a bacterial disease.
- iv) Lichens are considered as pollution indicators.

- a) i, iv b) ii, iii c) ii, iv d) i, iii

2) Choose the matched pair:

Alga - **Chloroplast shape**

- a) Spirogyra - Star
- b) Zygnema - Spiral
- c) Chara - Cup
- d) Oedogonium - Reticulate

3) Which of the following is polycarpic plant?

- a) Musa b) Agave c) Bambusa d) Mangifera

4) In an inflorescence where flowers borne laterally in an acropeal succession the position of the youngest floral bud shall be

- a) Intercalary b) Proximal c) Distal d) Anywhere

5) Flowers are zygomorphic in

- a) Ceropogia b) Datura c) Solanum d) Thevetia

6) Study of which part of chromosome providing insights conditions such as ageing and cancer?

- a) Primary constriction b) Telomere
- c) Satellite d) Secondary constriction

7) In human cell division, if APC is defective in human cell which of the following expected to occur?

- a) Chromosome will not condense
- b) Chromosome will not segregate
- c) Chromosomes will be fragmented
- d) Recombination of chromosomes will occur

8) In β -D Glucose units in cellulose are linked together by

- a) β - (1, 4) glycosidic linkage b) 1→3 linkage
- c) N-acetyl side chains d) N-acetyl D-glucosamine

Section - II

Answer any four of the following:

4×2=8

- 9) Differentiate: Leptosporangiate and Eusporangiate
- 10) What are epiphytic roots? Give an example.
- 11) What is called true cyme?
- 12) Where will you place the plants which contain two cotyledons with cup shaped thalamus?
- 13) State: Protoplasm theory
- 14) Classify the chromosomes based on the position of centromere.

Section - III

Answer any three of the following: (Q.No. 19 is compulsory)

3×3=9

- 15) Write a note on Kingdom Chromista.
- 16) Draw and label the parts of the regions of root.
- 17) What is author citation? Give an example.
- 18) Distinguish between Rough ER and Smooth ER.
- 19) Write the properties of water.

V11Bio

2

Section - IV

Answer all the questions:

2×5=10

- 20) a) Differentiate Gymnosperm and Angiosperm. (OR)
 b) Write any five economic importance of Family Fabaceae.
- 21) a) Draw and explain the structure of polytene chromosome. (OR)
 b) Describe the types of RNA.

PART - II [BIO-ZOOLOGY]

Marks: 35

Section - I

Answer all the questions. Choose the correct answer:

8×1=8

- 1) Who coined the term biodiversity?
 a) Walter Rosen b) Aristotle c) A.G. Tansley d) A.P. De candole
- 2) The respiratory pigment in cockroaches is
 a) Haemoglobin b) Haemocyanin
 c) Haemoerythrin d) None of the above
- 3) Bone cells present in the lacunae are called
 a) Neuroglia cell b) Osteocytes c) Lymphocyte d) Monocytes
- 4) Excretory glands present in cockroache are
 a) Conglobate gland b) Mushroom shape gland
 c) Malpighian glands d) Urecese gland
- 5) Which one is incorrectly matched?
 A) Pepsin - Stomach
 B) Renin - Liver
 C) Trypsin - Intestine
 D) Ptyalin - Mouth
- 6) The oxygen dissociation curve is
 a) sigmoid b) straight line
 c) curved d) Rectangular hyperbola
- 7) Which of the following is not involved in blood clotting?
 a) Calcium b) Platelets c) Bilirubin d) Fibrin
- 8) Podocytes are the cells present on the
 a) wall of glomerular capillaries b) neck of nephron
 c) inner wall of Bowman's capsule d) Outer wall of Bowman's capsule

Section - II

Answer any four of the following:

4×2=8

- 9) Differentiate between probiotics and pathogenic bacteria.
 10) List three features that characterise Bony fishes.
 11) Why blood is considered as a typical connective tissue?
 12) Define the term Met-haemoglobin.
 13) What are anastomoses?
 14) Name the two main hormones involved in the regulation of renal function.

Section - III

Answer any three questions: (Question No. 19 is compulsory)

3×3=9

- 15) List any three salient features of the family Felidae.
 16) Some epithelia are pseudostratified. What does this mean?
 17) What is known as oral rehydration therapy?
 18) Why is pneumonia considered a dangerous disease?
 19) What is cardio pulmonary resuscitation (CPR)?

Section - IV

Answer all the questions:

2×5=10

- 20) a) List the characteristic features of phylum arthropoda. (OR)
 b) Differentiate between male and female cockroach.
- 21) a) Describe the mechanism by which the human heart beat is initiated and controlled. (OR)
 b) Explain the heart's role in secreting a hormone that regulates renal function? What hormone is this?