

KK11Bio

Tenkasi District Common Examinations
Common Quarterly Examination - September 2022



Standard 11

Time Allowed: 3.00 Hrs.

BIOLOGY

Maximum Marks: 70

Note: Candidate should answer Part-I (Bio-Botany) and Part-II (Bio-Zoology) in separate answer sheets.

PART - I [BIO - BOTANY]

MARKS : 35

Section - 1

Note: i) Answer all the questions.

8×1=8

ii) Choose the most appropriate answer from the given four alternatives and write the option code and the corresponding answer.

- 1) _____ first proved that chromosomes are the physical carriers of genes.
 a) Bridges b) Waldeyer c) Rudolf Virchow d) Jansen
- 2) The correct statement regarding Blue green algae is
 a) Lack of motile structures b) Presence of cellulose in cellwall
 c) Absence of mucilage around the thallus d) Presence of floridean starch
- 3) _____ is an antibiotic prepared from Algae.
 a) Bacitracin b) Chlorellin c) Morphine d) Streptomycin
- 4) Pollengrains are fused together as a single mass called as _____.
 a) Gynostegium b) Syngenesious c) Synandrous d) Pollinium
- 5) Which of the following is polycarpic plant?
 a) Mangifera b) Bambusa c) Musa d) Agave
- 6) Binomial nomenclature was first introduced by _____.
 a) Carolus Linnaeus b) Bentham & Hooker
 c) Gaspard Bauhin d) Theodar Schwann
- 7) _____ is an exception to cell theory.
 a) Fungi b) Bacteria c) Mycoplasma d) Virus
- 8) The correct sequence in cellcycle is _____.
 a) G_1-S-G_2-M b) $S-M-G_1-G_2$ c) $M-G_1-G_2-S$ d) $S-G_1-G_2-M$

Section - 2

Note: Answer any four of the following questions.

4×2=8

- 9) Differentiate Homeomerous and Heteromerous lichen.
- 10) What is plectostele? Give example.
- 11) Define Venation.
- 12) Mention the types of classification.
- 13) What is Plasmodesmata?
- 14) Define cell cycle.

Section - 3

Note: Answer any three of the following questions.

3×3=9

Q.No. 19 is compulsory.

- 15) Do you agree with the statement Bryophytes need water for fertilization. Justify your answer.
- 16) Write down the differences between Raceme and Cyme inflorescence.
- 17) What do you know about Buttress roots? Give example.
- 18) Differentiate Taxonomy and Systematics.
- 19) Write any three properties of enzymes.

Section - 4

Note: Answer all the questions.

2×5=10

- 20) a) What are the steps involved in Gram staining method? (OR)
 b) Explain different types of Placentation.
- 21) a) Write the Botanical description of clitoria ternatea. (OR)
 b) Differences between Mitosis and Meiosis.

Section - I

Note: i) Answer all the questions.

8×1=8

ii) Each question carries one mark.

iii) Choose the correct answer and write the option code and the corresponding answer.

- Excretory organs are absent in
 - Echinodermata
 - Annelids
 - Arthropoda
 - Mollusca
- Sea anemone belongs to phylum
 - Protozoa
 - Porifera
 - Cnidaria
 - Echinodermata
- Select the wrongly matched pair:
 - Exocrine gland - Enzymes
 - Endocrine gland - Hormones
 - Bones - Adipose tissue
 - Blood - Fluid connective tissue
- Identify the part which is not associated with digestive system of earthworm.
 - Typhlosole
 - Oesophagus
 - Gizzard
 - Malpighian Tubules
- Match the following:

Column I

Column II

- | | | |
|---------------------|---|-----------------|
| 1. Renin | - | A) Intestine |
| 2. Mucus | - | B) Stomach |
| 3. Ptyalin | - | C) Goblet cells |
| 4. Succus entericus | - | D) Saliva |
- a) 1-B, 2-C, 3-D, 4-A b) 1-A, 2-B, 3-C, 4-D
 c) 1-C, 2-A, 3-B, 4-D d) 1-D, 2-A, 3-B, 4-C
- Brunner's glands are seen in the
 - Ileum
 - Jejunum
 - Large intestine
 - Duodenum
 - Breathing is controlled by
 - Cerebrum
 - Medulla oblongata
 - Cerebellum
 - Pons
 - Assertion (A)** : Larynx occurs in the upper of the neck.
Reason (R) : It is closed during swallowing process.
 - A and R are right.
 - A is right R is wrong.
 - A and R are wrong.
 - A is wrong R is right.

Section - II

Note: i) Write any four of the following.

4×2=8

ii) Each question carries two marks.

- What are Flame cells?
- Name the Larval stages seen in Phylum Porifera.
- How are multicellular exocrine glands classified based on their mode of secretion?
- What is Juxta medullary nephron?
- Differentiate between male and female frog.
- Write the dental formula.

Section - III

Note: i) Write any three of the following.

ii) Question No. 18 is compulsory.

iii) Each question carries three marks.

- Name the segments of leg of cockroach.
- What is Mesorchium?
- What is Gastro Oesophagus Reflex Disorder?
- Write short notes on Met haemoglobin.
- What is Epicardium?

Section - IV

Note: i) Give the answer of the following questions.

2×5=10

ii) Each question carries five marks.

- List the salient features of Phylum Annelida. (OR)
 Explain the Digestive system of Frog.
- Explain the structure of the liver. Add a note on its function. (OR)
 Draw the human respiration - system and label any five parts.