

Tsi11Bio

Tenkasi District
First Revision Examination - 2024



Standard 11
BIOLOGY

Time: 3.00 Hours

Marks: 70

Marks: 35

Part -I (Bio-Botany)

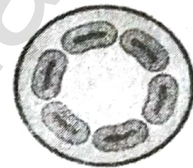
i) Answer all the questions.

8x1=8

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

- 1) The plant hormone derived from Herring Fish
a) Auxin b) Gibbrellin c) Kinetin d) Zeatin
- 2) The substance which links the Kreb's cycle and Glycolysis
a) Acetyl CoA b) Succinic Acid c) Pyruvic acid d) Citric Acid
- 3) Which type of Chlorophyll lack Phytol tail?
a) Chlorophyll a b) Chlorophyll b c) Chlorophyll c d) Chlorophyll d
- 4) Brown heart of turnip is caused by the deficiency of
a) Mo b) Zn c) Cu d) Bo
- 5) Which of the following water transport includes vacuoles?
a) Apoplast b) Symplast c) Intermembrane d) None of above
- 6) Write the function of nucleus in albuminous cells.
a) Sieve cells of Angiosperms are controlled
b) Sieve cells of Pteridophytes are controlled
c) Sieve cells of Gymnosperms are controlled
d) Xylem cells of Gymnosperms are controlled
- 7) Name the type of stele by referring the diagram given below.
a) dictyostele b) atactostele

c) solenostele d) plectostele
- 8) Which substance is useful to stop the cell division at metaphase stage?
a) auxin b) Gibbrellin c) Colchicin d) cytokinin

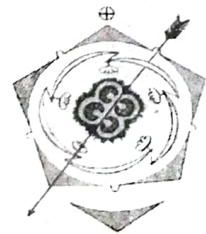


Part -II

II. Answer any four from the following

4x2=8

- 9) Write about the merits of Five kingdom classification.
- 10) Differentiate - Avicennia and Trapa
- 11) Differentiate - Composite and aggregate fruit.
- 12) Write the formula to calculate RQ.
- 13) A tree is releasing oxygen during night time. Will you accept this statement? Give reasons for your answer.
- 14) Explain the following floral digram.



Part -III

III. Answer any 3 from the following. Qn.No. 19 is compulsory.

3x3=9

- 15) Differentiate the cytokinesis occurring in plant cell and animal cell.
- 16) Give a note on ribosomal RNA
- 17) What are trichosclerieds?
- 18) Write about Programmed Cell Death.
- 19) Differentiate the Pigments system of the reaction centres P 680 and P700.

Part -IV

IV. Answer all the Questions.

2x5=10

- 20) a) Differentiate between the cross sections of Dicot Root and Monocot Root.
b) Explain about the site of photosynthesis
- 21) a) Draw different steps involved in glycolysis.
b) Explain the botanical description of Clitoria ternatea

Tsi11Bio

2

Part -I (Bio-Zoology)

Marks: 35

Section - A**I. Choose and write the correct answer****8x1=8**

- 1) When a cockroach tries to enter into the ear of a sleeping person, which one of the following process will start?
 - a) Stimulation of negative feedback mechanism
 - b) Neuro muscular fatigue
 - c) Unconditioned reflex
 - d) Conditioned reflex.
- 2) The cytoplasm of the muscle fibre is called
 - a) myofibril
 - b) Sarcoplasm
 - c) Sarcomere
 - d) Sarcolemma
- 3) Three domain classification was proposed by
 - a) Cavalier smith
 - b) R.H. Whittaker
 - c) Carolus Linneaus
 - d) Carl woose
- 4) Which one of the following is correct pair?
 - a) Exotic breed - Cyprinus Carpio
 - b) Apiculture - Reeling
 - c) Sericulture - Propolis
 - d) Milch breed - Malvi
- 5) Vital capacity is
 - a) RV + ERV
 - b) TV + IRV + ERV
 - c) TV + IRV
 - d) RV + ERV
- 6) Which of the following is not present in the same Rank?
 - a) Diptera
 - b) Insecta
 - c) Primata
 - d) Orthoptera
- 7) If Henle's Loop were absent from mammalian nephron, which one of the following is to be expected?
 - a) The urine will be more concentrated
 - b) The urine will be more diluted
 - c) There will be no urine formation
 - d) There will be hardly any change in the quality and quantity of urine formed
- 8) **Assertion (A)** : Large intestine also shows the presence of villi like small intestine
Reason (B) : Absorption of water takes place in large intestine
 - a) Both A and B are true and B is the correct explanation of A
 - b) Both A and B are true but B is not the correct explanation of A
 - c) A is true but B is false
 - d) A is false but B is true

Section -B**II. Answer any four Questions.**

- 9) Define Species.
- 10) Classify the animals based on the body cavity.
- 11) We are not consuming urea. But in our body urea is produced why?
- 12) List the disorders of muscular system.
- 13) Name the three zones which are present in Adrenal gland?
- 14) Why is the blind spot called so?

Section -C**III. Answer any three Questions. Q.No. 19 is compulsory.****3x3=9**

- 15) Compare the anatomical features between Phylum Cnidaria and Ctenophora.
- 16) Why do we call cockroach avector?
- 17) Why, villi present in the intestine are not present.
- 18) Draw and Label the parts of the neuron.
- 19) Pineal gland is an endocrine gland. Write its role.

Section -D**IV. Answer all the Questions.****2x5=10**

- 20) a) Describe the mechanism by which the human heart beat is initiated and controlled.
(OR)
- b) Write about the refractive errors of eye.
- 21) a) Discuss the various techniques adopted in cattle breeding.
(OR)
- b) Sequence the events in inspiration and expiration.