

Ts11Blo

Tenkasi District Common Examinations
Common First Revision Examination - January 2023

Standard 11

Time: 3.00 Hours

BIOLOGY

Marks: 70

[Bio - Botany]

Section - A

8x1=8

I. Choose the correct answer:

- 1) The integrated phage DNA is called
a) Prophage b) Bacteriophage c) cyanophage d) Mycophage
- 2) Water is essential for fertilization
a) Angiosperms b) Bryophytes c) Gymnosperms d) fungi
- 3) Ribosomes were first observed by
a) Christian de Duve b) George palade
c) A. Kolliker d) A.F.U. Schimper
- 4) Pulsation theory was proposed by
a) J.C. Bose b) Godlewski
c) Strasburger d) Stephen Hales
- 5) Exanthema in citrus caused by the deficiency of
a) Boron b) Manganese c) Iron d) Copper
- 6) What is the total number of percentage in tRNA?
a) 3% b) 80% c) 5% d) 15%
- 7) Which of the following represents gametophytic generation in pteridophytes?
a) Prothallus b) Thallus c) Cone d) Rhizophore
- 8) The compound which links glycolysis and Krebs cycle is
a) Succinic acid b) Pyruvic acid c) acetyl COA d) Citric acid

Section - B

4x2=8

II. Answer any 4 questions:

- 9) What is Eustele?
- 10) What is photophosphorylation?
- 11) Differentiate between Morus and Pinus.
- 12) Differentiate homoiomerous and heteromerous lichens?
- 13) What is Idioblast?
- 14) Define ascent of Sap.

Section - C

3x3=9

III. Answer any 3 questions:

Question No. 17 is compulsory.

- 15) Respiratory quotient is Zero in succulent plants. Why?
- 16) Significance of pentose phosphate.
- 17) How root climbers differ from stem climbers?
- 18) Draw and label the structure of polytene chromosomes.
- 19) Write the properties of enzyme?

Section - D

2x5=10

IV. Answer all the questions:

- 20) a) Explain the types of stele.
(OR)
b) Write the special types of inflorescence
- 21) a) Draw and label the part of T.S. of Dicot leaf?
(OR)
b) Write the flow chart of Krebs cycle or Citric acid cycle.

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[Bio - Zoology]

Part - I

8×1=8

I. Answer all the questions:

Choose the most appropriate answer form the given four alternatives and write the option code and the corresponding answer.

- 1) Molecular taxonomic tool consist of
 - a) DNA and RNA
 - b) Mitochondria and Endoplasmic Reticulum
 - c) Cell wall and membrane Protein
 - d) All the above
- 2) Pneumatic bones are seen in
 - a) Shark
 - b) Rana
 - c) Pigeon
 - d) Whale
- 3) Connective tissue develops from
 - a) Endoderm
 - b) Ecotoderm
 - c) Mesoderm
 - d) Endomesoderm
- 4) Presence of gills in the tadpole of frog indicates that
 - a) Fishes were amphibious in the past
 - b) Fishes involved from frog - like ancestors
 - c) Frog will have gills in future.
 - d) Frog evolved from gill ancestor.
- 5) Match column I with column II and choose the correct option

Column I	Column II
P) Small intestine	i) Largest factory
Q) Pancreas	ii) Absorption of glucose
R) Liver	iii) Carrying electrolytic solution
S) Colm	iv) Digestion and absorption.

 - a) P - iv, Q - iii, R - i, S - ii
 - b) P - iii, Q - ii, R - i, S - iv
 - c) P - iv, Q - iii, R - ii, S - i
 - d) P - ii, Q - iv, R - iii, S - i
- 6) Which of the following substances in tobacco smoke damage the gases exchange system.
 - a) Carbonmonoxide and carcinogen
 - b) Carbonmonoxide and nicotine
 - c) Carcinogen and tar
 - d) Nicotine and tar
- 7) Which of the following cranial nerve controls the movement of eye ball.
 - a) Trochlear nerve
 - b) optic nerve
 - c) olfactory nerve
 - d) Vagus nerve
- 8) Serum calcium level is regulated by
 - a) Thyroxine
 - b) FSH
 - c) Pancreas
 - d) Thyroid and Parathyroid

Part - II

4×2=8

II. Answer any four of the following questions:

- 9) What is binomial clature?
- 10) What are the three types of hephridia in earthworm?
- 11) What is succus entericus?
- 12) What are aquaporins?
- 13) Difference between cortical nephron and medullary nephron.
- 14) Name the three hormones involved in the regulation of renal functions.

Part - III

3×3=9

III. Answer any three of the following questions:

Question No: 19 is compulsory.

- 15) What is the difference between a zoo and wild life sanctuary?
- 16) Write short notes on CPR.
- 17) Differentiate between Rod and cone cells.
- 18) What are the characteristic of subphylum vertebrate
- 19) Differentiate Nuptial flight from swarming.

Part - IV

2×5=10

IV. Answer all questions:

- 20) a) Draw and explain the cross -sectional view of kidney? (OR)
- b) Comment on the functions of adrenaline.
- 21) a) Discuss the various techniques adopted in cattle breeding? (OR)
- b) (i) Brief description of metagenesis in Cnidaria
- (ii) What are the characteristics of Phylum Ctenophora.