

Ts11Bio

Tenkasi District Common Examinations
Common Half Yearly Examination - December 2022



21-12-2022 Standard - 11

Time Allowed: 3.00 Hours

BIO-BOTANY

Maximum Marks: 35

PART - I**Choose the correct answer.****8×1=8**

- Which of the plant group has gametophyte as a dominant phase?
a) pteridophytes b) Bryophytes c) Gymnosperm d) Angiosperm
- Select the Mismatch pair:
a) Musa - unicostate
b) Lablab - Trifoliolate
c) Acalypha - Leaf mosaic
d) Allamanda - Ternate phyllotaxy
- Gynoecium with united carpels is termed as
a) Apocarpous b) Multicarpellary c) Syncarpous d) None of the above
- Grafting is successful in dicots but not in Monocots because the dicots have
a) Vascular bundles arranged in a ring
b) Cambium for secondary growth
c) Vessels with elements arranged end to end
d) Cork cambium
- Which chlorophyll molecule does not have a phytol tail?
a) Chl-a b) Chl-b c) Chl-c d) Chl-d
- The number of ATP Molecules formed by complete oxidation of one molecule of pyruvic acid is
a) 12 b) 13 c) 14 d) 15
- Which is the edible portion in false fruit of Jack fruit?
a) ovary b) perianth c) thalamus d) bracts
- Exanthema in citrus caused by the deficiency of
a) Boron b) Manganese c) Iron d) Copper

PART - II**Note: Answer any 4 questions.****4×2=8**

- What is Archaeobacteria?
- Draw and label the parts of Regions of root.
- What is Aestivation?
- What is tyloses?
- What is Respiratory Quotient?
- What is halting, Richmord Lang effect?

PART - III**Note: Answer any 3 questions. Question No. 18 is compulsory.****3×3=9**

- Briefly discuss on five kingdom classification, Add a note on merits and demerits.
- What is phyllode?
- Difference between racemose and cymose.
- What is binomial nomenclature?
- Difference between cyclic photo phosphorylation and non cyclic photo phosphorylation.

PART - IV**Note: Answer all the questions.****2×5=10**

- a) i) What are the three classes of Bryophytes?
ii) Difference between Gymnosperm and Angiosperms. (OR)
- b) Give the floral characters of clitoria ternatea. (OR)
- a) Write the flow chart of glycolysis. (OR)
- b) Difference between C₃ and C₄ plants.

BIO-ZOOLOGY**SECTION - I****Answer all the questions.****8×1=8**

- Which one of the following is correct pair?
a) Exotic - Cyprinus Carpio
b) Apiculture - Reeling
c) Sericulture - Propolis
d) Milch breed - Malvi
- If Henle's loops were absent from mammalian nephron, which one of the following is to be expected?

Kindly send me your questions and answerkeys to us : Padasalai.net@gmail.com

15. 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
3. Three domain classification was proposed by
 a) Cavalier Smith
 b) R.H. Whittaker
 c) Carolus Linnaeus
 d) Carl Woese
4. Which of the following is not present in the same rank?
 a) Diptera
 b) Insecta
 c) Primata
 d) Orthoptera
5. Match the following:
 a) Parathyroid hormones - i) Addison's disease
 b) Glucocorticoid hormones - ii) Endemic goitre
 c) Thyroxine hormones - iii) Tetany
 d) Growth hormones - iv) Acromegaly
- a) 1 - iii, 2 - i, 3 - ii, 4 - iv
 b) 1 - iii, 2 - iv, 3 - ii, 4 - i
 c) 1 - iv, 2 - i, 3 - ii, 4 - iii
 d) 1 - i, 2 - iii, 3 - iv, 4 - ii
6. CO₂ is transported through blood to lungs
 a) Carboxy haemoglobin
 b) Carbonic acid
 c) Oxy haemoglobin
 d) Carbamino haemoglobin
7. Select the correct order.

- a) Spiracles → Tracheoles → Trachea → Tissues
 b) Trachea → Tracheoles → Spiracle → Tissues
 c) Tissues → Trachea → Tracheoles → Spiracles
 d) Spiracles → Trachea → Tracheoles → Tissues
8. Read the following statements and choose the correct option.
 Assertion (A) : Nacre is secreted continuously by the epithelial layer of the mantle deposited around the foreign particle and over a period of time the formation of repeated layer of Calcium Carbonate makes the hard and glossy pearl.
 Reason (R) : The pearl comprise of 2-4 water and 90% Calcium Carbonate.
 a) Statement (A) is incorrect but statement (R) is correct
 b) Both statement (A) and (R) are correct and (R) is the correct explanation to (A)
 c) Both statement (A) and (R) are correct and (R) is not correct explanation to (A)
 d) Statement (A) is correct but statement (R) is incorrect

PART - II

Note: Answer any 4 questions. Question No. 14 is compulsory. 4×2=8

9. Define - Species
 10. Classify the earthworms based on their ecological strategies with example.
 11. Write notes on diphyodont?
 12. What might be the effect on a person whose diet has less iron content?
 13. What is meant by blind spot? Why is it called so?
 14. Name the following:
 a) Commercial production of silk through silkworm rearing.
 b) Cultivation of mulberry plant-

PART - III

Note: Answer any 3 questions. Question No. 19 is compulsory. 3×3=9

15. Define : i) Schizo coelomates ii) Entero coelomates.
 16. Write notes on PEM.
 17. Mention the changes that occur in a person's body who lives in low partial O₂ pressure.
 18. Write short notes on CPR.
 19. Name the gland that functions as a circadian rhythm (biological clock) in our body. Where is it located? Name its secretion.

PART - IV

Note: Answer all the questions. 2×5=10

20. a) Write the rules of nomenclature. (OR)
 b) Explain the Electrocardiogram ECG.
 21. a) Sacromere is a structural and functional unit of muscle - justify this statement. (OR)
 b) Define Artificial insemination. What technology is applied to cattle, sheep and buffaloes When the success rate of crossing is low even after insemination and explain its steps? Write the advantages of artificial insemination.