2×5=10

(OR)

(OR)

RANIPET- DIST 11014 **COMMON HALF YEARLY EXAMINATION - 2022** Reg.No. Standard - XI Time: 3.00 hrs. **BICLOGY** Marks: 70 **BIO-BOTANY** Marks: 35 PART-1 Note: i) Answer all the questions. ii) Choose the most appropriate answer from the given four alternatives and write the option code and the corresponding answer: 1. Identify the Archaebacterium a) Acetobacter b) Erwinia c) Treponema d) Methanobacterium 2. Which of the following is a flowering plant with nodules containing filamentous nitrogen firing micro organisms. a) Crotalaria Juncea b) Cycas revoluta c) Cicer arietinum d) Casuarina equisetifolia \_ are called power house of a cell. a) Chloroplast b) Mitochondria c) Golgi bodies d) Nucleus 4. Colchicine prevents the mitosis of the cells at which of the following stage a) Anaphase b) Prophase c) Melaphase d) Interphase 5. The most basic aminoacid is a) Arginine b) Histidine c) Glycine d) Glulamine 6. Refer to the given figure and select the correct statement: a) Phloem occurs on both the outer and inner sides of xylem. b) Phloem lies in the centre with Xylem surrounding it. c) Cambium is absent between Xylem and Phloem d) Xylem and Phloem are present in concentric circles one around the other in some stems. 7. Which Chlorophyll molecule does not have a Phytol tail? a) Chl -a b) Chl - b c) Chl - c d) Chl - d 8. The number of ATP molecules formed by complete oxidation of one molecule of Pyruvic acid is a) 12 b) 13 c) 14 d) 15 PART - 2 II. Note: Answer any four questions:  $4 \times 2 = 8$ 9. Differentiate homoiomerous and heteromerous lichens. 10. What are called bisexual flower? Give example. 11. Give an account of G0 phase. 12. Write the overall equation of respiration. 13. Define apical dominance. 14. What is Ascent of sap? PART - 3 III. Note: Answer any three questions. Question No.19 is compulsory.  $3 \times 3 = 9$ 15. Write the distinguishing features of monera. 16. Differentiate between cyclic and non-cyclic photo phosphorylation. 17. Respiratory quotient is zero in succulent plants. Why? 18. Write the physiological effects of Cytokinins. 19. Draw and label the structure of the Polytene Chromosome. **PART - 4** 

IV. Answer the following questions:

Draw a flow chart of Calvin cycle.

20. Distinguish between prokaryotes and eukaryotes.

21. Explain the insectivorous mode of nutrition in angiosperms?

Give the floral characters of Datura metal.

# XI - BIOLOGY

# **BIO - ZOOLOGY SECTION - I**

Marks: 35

Note: i) Answer all the questions. ii) Choose the most appropriate answer and write the option code and the corresponding answer.

- 1. Sexually earthworms are
  - a) sexes are separate

- b) Hermaphroditic but not self fertilizing
- c) Hermaphroditic and self fertilizing d) Pathogenic
- 2. Match Column I with Column II and Choose the correct option.

# Column I

## Column II

- P) Small intestine
- i) Largest factory Absorption of water ii)

Q) Pancreas

- iii) Carrying electrolytic solution
- R) Liver S) Colon
- 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
- 3. Which one of the following is not involved in blood clotting?
  - a) Fibrin
- b) Calcium
- c) Platelets
- d) Bilirubin

- 4. The fundamental unit of muscle fibre is
  - a) Sarcomere
- b) Sarcoplasm
- c) Myosin
- d) Actin

- 5. The limbic system is called
  - a) Emotional brain b) Cerebrum c) Cerebellum
- d) Brain stem

- 6. Hyper secretion of GH in children leads to
  - a) Cretinism
- b) Giganlism
- c) Grave's disease d) Tetany
- 7. Which one of the following is not an endemic species of earthworm? c) Eudrillus a) Perionyx b) Lampito

- d) Octochaetona
- 8. Which of the following is an egg laying mammal?
  - a) Delphinus
- b) Macropus
- c) Ornithorhynchus d) Equus

#### **SECTION - II**

# Answer any four of the following questions:

 $4 \times 2 = 8$ 

 $2 \times 5 = 10$ 

- 9. What is the role of Charles Darwin in relation to concept of Species?
- 10. What is gastro oesophagus reflex disorder?
- 11. What is meant by juxta medullary nephrons?
- 12. Cornea transplant in human is almost never rejected. State the reason.
- 13. Name the hormones responsible for circadian rhythm.
- 14. Write the advantages of Vermicomposting.

#### **SECTION - III**

Answer any three of the following. Question No.19 is compulsory.

- 15. List the characteristic features that distinguish cartilagenous fishes with living jawless fishes.
- 16. What are cell junction. Write its types.
- 17. Write notes on Appendicitis.
- 18. What is Cardio Pulmonary resuscitation? When it is done?
- 19. Write any three uses of silk.

# **SECTION - IV**

Answer the following questions:

- 20. Write notes about classical taxonomical tools?
- (OR)
- Differntiate male and female Cockroach. 21. Describe the structure of a typical long bone.
- (OR)

Tabulate the different types of Silk Worm.