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Time : 3.00 hrs.

Half-Yearly Examination - 2022 BIOLOGY

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Max. Marks: 70

BIO - BOTANY (Marks 35) PART - I

Choose the correct answer

8 x 1 = 8

- Of an anglosperm plant hapfold chromosome number is 14. What is the number of chromosome in its endosperm tissue? a) 7 b) 4 c) 42 d) 28
- 2. Which part of leaf in Nepenthus plant is modified into tendril?
 - a) Petiole b) Midrib c) Leaf surface d) Leaf tip
- 3. Alkaline amino acid
 - a) Arginine b) Histidine c) Glycine d) Glutamine
- What does stomatal opening depend on?

 a) Entry of potassium ion b) Excretion of potassium ion
 - c) Entry of chikoride ion d) Entry of hydroxyl ion
- 5. Which element is non-replaceable?
 - a) Phosphorus b) Potassium c) Calcium d) Nitrogen
- 6. Glycolysis and Krebs cycle connecting compound is
 - a) Succinic acid b) Pyruvic acid c) Acetyle CoA d) Citric acid
- 7. Each CO, Molecules entering the C, cycle require.......ATP andNADPH.
- a) 2 ATP + 2 NA+DPH b) 2 ATP + 3 NADPH c) 3 ATP + 2 NADPH d) 3 ATP + 3 NADPH
- 8. To know the phylogeny which of the following sequences are used?
 - a) mRNA b) tRNA c) tRNA d) HnRNA

PART - II

Answer any 4 questions

4x2=

- 9. What is the importance of imbibition?
- 10. Draw a diagram of an open vascular bundle and label the parts.
- 11. Write functions of seeds. (any 2)
- 12. Define Respiratory Quotient.
- 13. Krebs cycle is amphibolic. Give reason.
- 14. Write 2 differences between sap wood and heart wood.

PART - III

realization of the most sufficiently bearing

Answer any 3 questions (Question No.18 compulsory)

 $3 \times 3 = 9$

- 15. Write the importance of Mycorrhizae.
- 16. Write any 3 rules of nomenclature.
- 17. Draw a picture of mitochondria and label the parts.
- 18. Describe Emersons' enhancement effect.
- 19. What are the applications of Vernalization?

PART - IV

Answer in detail

 $2 \times 5 = 10$

20. Explain the tyhpes placentation. (OR)

Write the differences between C3 and C4 plants.

21. List the differences between mitosis and meiosis. (OR) Write the biological effects of Gibberellin.

11 - Biology - 1

Choose the coiract answer

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Answer any 4 quostions

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Draw a cladiam of an open vascular bundle and label ma parts

Answer any 2 questions (Question No. 18 compulsory)

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is the determinant between engosis and resposes TOR)

BIO - ZOOLOGY (Marks 35) SECTION - A VITE OVER 184

Choose the correct answer

 $8 \times 1 = 8$

- Of classification, without regard to quality each unit is......
 - a) Taxon b) Genus c) Species d) Strain (MATOS) O(B)
- 2. Legless amphibians
 - a) Ethiophys b) Hyla c) Rana d) Salamander
- 3. "Squamous epithelium is seen in MV 11 suredmen amusements biologis his a surbysome as 10
 - a) skin b) digestive tract c) gall bladder d) trachea
- Which of the following is not a function of liver its ballboan selection and transfer and transf 4.
 - a) Insulin production b) Detoxification d) Glycogen storage d) Bile water production
- Breathing capacity of a normal human being a) 800 ml b) 1200 ml c) 500 ml d) 1100-1200 ml (b) (b) (c) (c) (c) (c) (c)
- 6. To which blood group does a person have A and B antigens on the surface of erythrocytes? c) Erroy of a the adde look of Edity of availbard look
 - a) A b) B c) AB d) O
- Product of ornithine cycle is
 - a) Carbon dioxide b) Uric acid c) Urea d) Ammonia (1996) (5) (5) (6) (6) (7) (7) (7)
- What is isinglass used for?
 - a) Preparation of wine b) To purify wine c) Filtration of wine d) Canning of wine

Hara PTA SECTION Brave a samparative service of .00 rate

Answer any 4 questions. 8 HACAMER STAR (6 HACAMER STAR (4 HACAMER STAR)

- Why flatworms are called acoelomate? is secretable a printer of shi to dollar ynegolydg and work of
- 10. Distinguish between tergum and ternum.
- 11. How does one's body heal to live gtogether at higher altitudes above sea level?
- 12. Mention 3 hormones that regulate kidney function.
- 13. Draw the diagram of nerve cell and label its parts.
- 14. Define Cross breeding.

SECTION - C

Answer any 3 questions. (Question no.18 compulsory)

P= Ex E - Respiratory Suprient

- 15. Why Mule is sterile in nature?
- 16. Differentiate white adipose tissue from brown adipose tissue pow and assume the state of the
- 17. Why are villi present in the intestine and not in the stomach?
- 18. How is Tetany caused?
- 19. Comment on Homeostasis.

SECTION - D

Answer in detai.

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- 20. a) Can we use recent molecular tools to identify and classify organism? Production have to accompany or one and lackly .91
 - b) Describe the mechanism by which the human heart beat is initiated and controlled.
- 21. a) List the chemical changes that starch molecule undergoes from the time it reaches the small intestine. (OR) (90) Indumonal constitution of sape
 - b) What are the nutritive values of fishes?

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