

RSM

# REVISION EXAMINATION - 2020

11 - Std

## BIOLOGY

Time : 3.00 Hrs

BIO - BOTANY

Marks : 70

### PART - A

**I Answer all the questions.**

1. Caphophilic bacteria refers to 8 X 1 = 8  
 a) Bacteria which release CO<sub>2</sub>    b) Bacteria which rises CO<sub>2</sub>    c) Bacteria utilise O<sub>2</sub>    d) Bacteria release O<sub>2</sub>
2. Match correctly.  
 a) Root modification - i) Potato  
 b) Stem modification - ii) Opuntia  
 c) Leaf modification - iii) Carrot  
 d) Phylloclade - iv) Nepenthes
3. An example for the fruit developed from apocarpous ovary  
 a) A-3, B-1, C-2, D-4    b) A-2, B-4, C-3, D-1  
 c) A-3, B-1, C-4, D-2    d) A-2, B-4, C-1, D-3
4. Correct sequence for cell cycle  
 a) Jackfruit    b) polytheia    c) Tomato    d) Oryza
5. Find the correct option.  
 a) S-M-G<sub>1</sub>-G<sub>2</sub>    b) S-G<sub>1</sub>-G<sub>2</sub>-M    c) G<sub>1</sub>-S-G<sub>2</sub>-M    d) M-G<sub>1</sub>-G<sub>2</sub>-S
6. Statement : passage cells are seen in Endoderm is  
 Reason : Casparian stripes are not present in the cells opposite to protoxylem.  
 a) Both statement and reasons are correct.    b) Statement is right reasons is wrong  
 c) Statement is wrong and reasons is right    d) Both statement and reasons are incorrect
7. Choose the wrong pair  
 a) Quinine - Chincona bark  
 b) Cork - Quercus  
 c) Turpentine - Acacia  
 d) Rubber - Hevea
8. In which type of chlorophyll phytol tail is not found  
 a) chlorophyll a    b) Chlorophyll b    c) Chlorophyll c    d) Chlorophyll - d
9. One molecule of pyruvic acid completely oxidised and gives \_\_\_\_\_ ATP molecules.  
 a) 12    b) 13    c) 14    d) 15

### Part - B

**II Answer any four questions.**

9. Why do farmers plant leguminous plant in crop rotations? 4 X 2 = 8
10. What is Binomial nomenclature? Give examples.
11. What are 4 main types of inflorescence.
12. Write the type of ribosomes and units their sub unit numbers.
13. What is meant by Quiescent center?
14. What forms annual ring's and what is in Dendro Chronology?

### Part - C

**Answer any three questions. Qn.No. 18 is compulsory.**

15. What are Archebacteria? Give example. 3 X 3 = 9
16. What are photosynthetic roots? Give example.
17. Write the 3 importance of herbarium.
18. Draw and label the parts of Golgi complex. 385-157
19. Point out the 3 difference between mitosis and meiosis. 166

### Part - D

**Answer the following questions.**

20. Write the steps involved in gram staining. 29 2 X 5 = 10
21. a) Explain the types of sclereid. 305 (OR) b) Write the difference between prokaryotes and Eukaryotes. 143
22. What are the adaptations seen in the grasses to compensate the loss of photorespiration. What is the name? and explain.

R. JAPANESE

M.C.B.F.P

T.R.T



BIO - ZOOLOGY (PART - A)

I Answer all the questions. Choose the most appropriate answer from the given four alternatives and write the option code and the corresponding answer. 8 X 1 = 8

1. Find the correct match.  
i) John ray - a) Five kingdom  
ii) Linnaeus - b) Cladogram  
iii) Ernst Haeckel - c) Binomial nomenclature  
iv) R.H. Whittaker - d) Methodus plantarum  
a) 1 - d, 2 - c, 3 - b, 4 - a  
b) 1 - a, 2 - b, 3 - c, 4 - d  
c) 1 - c, 2 - a, 3 - b, 4 - d  
d) 1 - d, 2 - c, 3 - a, 4 - b
2. Which type of tissue forms glands?  
a) Epithelial b) Muscular c) Nervous d) Connective
3. Which one is not matched  
a) pepsin - stomach  
b) Renin - Liver  
c) Trypsin - intestine  
d) Ptyalin - mouth
4. The slow excitation of "QRS" wave indicates \_\_\_\_ defect  
a) Inflammation of ventricles b) Defects in bicuspid valve c) Block in the coronary artery, d) Defects in atrio - ventricular node
5. Glucose is reabsorbed from glomerular filtrate through  
a) Active transports b) passive transport c) Osmosis d) Diffusion
6. Inflammation of Joints due to accumulation of uric acid crystals is called as  
a) Gout b) Myasthenia gravis c) Osteoporosis d) osteomalacia
7. **Assertion (A) :** Cerebral cortex looks grey is colour  
**Reason : (R) :** Cerebral cortex looks gray due to the presence of unmyelinated nerve cells  
a) (R) is correct but (A) is wrong b) (A) is correct and (R) explains (A)  
c) (A) is correct but (R) is wrong, d) Both (A) and (R) wrong
8. Serum calcium level is regulated by  
a) thyroxine b) FSH c) Pancreas, d) Thyroid and parathyroid

Part - B

II Answer any four questions. 4 X 2 = 8

9. Define lateral line sense organ.
10. Give notes on vermiform appendix.
11. What is role of mucus cells during respiration?
12. Differentiate cortical from medullary nephrons.
13. Cornea transplant in humans is almost never rejected. State the reason.
14. List any two common uses of shellac.

Part - C

III Answer any three questions. Qn.No. 19 is compulsory. 3 X 3 = 9

15. Differentiate between probiotics and pathogenic bacteria.
16. Write the significance of the followings.  
i) micro villi ii) Goblet cells
17. What is succus entericus and name the enzymes present in it?
18. What are the effects of excess secretion of cortisol?
19. What are the advantage of artificial insemination?

Part - D

Answer all the questions. 2 X 5 = 10

20. Describe the brain of frog. (OR) Explain double circulation.
21. Write about the mechanism and healing of bone fracture. (OR)  
Write a note on disorder caused due to malfunctioning of thyroid gland.