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## Annual Examination 2014

Science - Biology

Class – XI

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Time allowed: 3 hours

Maximum Marks: 70

### General instructions:

- All questions are compulsory.
  - There are 26 questions in total. Q. Nos. **1 to 5** carry **1 mark** each, Q. nos. **6 to 10** carry **2 marks** each, Q. nos. **11 to 22** carry **3 marks** each, Q. no. **23** carry **4 marks** and Q. nos. **24 to 26** carry **5 marks** each.
  - There is no overall choice. However, internal choice has been provided in 1 question of 2 marks, 1 question of 3 marks and all 3 questions of 5 marks each. You have to attempt only one of the given choices in such questions.
  - The diagram should not neatly and properly drawn, wherever necessary.
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### Section – A

- Give the full form of-
  - ICBN
  - ICZN
- What is a dikaryon?
- Name to essential amino acids.
- Who proposed the cell theory? State the cell theory.
- Give the significance of zygotene stage of meiosis.

### Section – B

- Name the kingdom to which these organism belong:
  - Bacteria
  - Puccinia graminis
  - Euglena
  - Diatoms
- Differentiate between the following:
  - Peptide bond and Glycosidic bond
  - Polypeptide and polynucleotide
- Draw the fluid Mosaic model of cell membrane.
- What is erythroblastosis foetalis?
- Draw a labelled diagram of human heart.

**Or**

Give the significance of the following:

- Botanical garden

- b) Museum
11. Give example of the following:
- a) Homopolymer polysaccharide
  - b) Polymer of fructose
  - c) One modified sugars
12. Draw a labelled diagram of digestive system in man.
13. Give the function of the following:
- a) Goblet cells
  - b) Renin
  - c) Rennin
14. Explain the gaseous exchange in man.
15. Differentiate between phycomycetes and ascomycetes on the basis of
- a) Mycelium
  - b) Types of spores
16. Draw a labelled diagram of Mitochondria.
17. Explain the following terms in respiration
18. Name the enzymes of pancreatic juice.

**Or**

What is triglyceride? Give it's structure.

19. Explain the digestion of fat in man, in short.
20. A) Draw the graph of ECG.  
B) Name the different type of chromosome on the basis of position of centromere.
21. A) What is vital capacity?  
B) If a person with blood group A (donor) gives blood to a person with blood group (recipient). Will the recipient accept the donor's blood? Explain.
22. Give the function of the following:
- a) Spirometer
  - b) Sphygmomanometer
  - c) Synaptoemal complex
  - d) Kinetochore
  - e) Lysosome
  - f) Ribosome

#### **Section – D**

23. Apoorva went to Kolkata along with her family to attend marriage of her niece. On the completion of marriage function. Apoorva showed her willingness to see Botanical garden which her parents allowed her.

#### **Section – E**

24. Describe the structure of secondary protein.

**Or**

Give two identifying features of the four classes of kingdom fungi and give two examples of each class.

25. Explain Meiosis-I with labelled diagrams.

**Or**

Explain Mitosis with labelled diagrams.

26. Explain cardiac cycle.

**Or**

Describe the transport of gases in man.

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