

**Important Instructions**

1. Use only **Blue/Black** Ball Point Pen to Fill up the Particulars on the Question Booklet and Answer Sheet and also for marking the responses on the Answer Sheet. **Use of Pencil is strictly prohibited.**
2. Immediately Fill in the Particulars asked on this page & on the answer sheet very carefully. Write the Application number and Roll Number, asked in the Answer Sheet very neatly and darken the respective circle.
3. Write the Answer Sheet Number on the Attendance Sheet, as mentioned in the Answer Sheet.
4. Open the seal of the Question Booklet after getting necessary instructions from the invigilator. This Question Booklet contains 16 pages.
5. After opening the seal, check all the pages of the question booklet. If there is any discrepancy, report to the invigilator immediately for change of question booklet.
6. This question Booklet consists of 100 multiple choice questions each carrying **+4** for correct response, **-1** for incorrect response and **0** for no response.
7. The Test is of **two hours** duration.
8. Handle the Question Booklet and Answer Sheet with care.
9. Don't do any rough work or writing work on Answer Sheet. All calculations / writing works are to be done in the space provided for the purpose in the Question Booklet itself, marked 'Space for Rough Work'.
10. On demand, show the admit card to the invigilator.
11. The candidates are governed by the Rules and Regulation of the University with regard to their conduct in the Examination Hall / Room.
12. Candidates are not allowed to carry any textual material, printed or written, bits of papers, pager, mobile phone, electronic device, electronic / manual calculator, drawing instruments (such as scale, compass etc.) or any other material except the Admit Card and Ball Point Pens inside the Examination Hall / Room.
13. No Part of the Question Booklet and Answer Sheet shall be detached or folded or defaced under any circumstances.
14. Before handing over the Answer Sheet to the invigilator, confirm that your Answer Sheet has been signed by the Invigilator.
15. On completion of the test, handover the Answer Sheet to the invigilator. At no circumstances, you will be allowed to leave the examination hall / room without handing over the Answer Sheet to the Invigilator.

Name of the Candidate \_\_\_\_\_ Roll No. \_\_\_\_\_

Examination Centre \_\_\_\_\_

Candidate's Signature

Invigilator's Signature

## BIOLOGY

1. The most abundant polymer of glucose found in plants  
(A) Cellulose      (B) Sucrose      (C) Starch      (D) Xylose
2. Mutation that occur due to the addition or deletion of a nucleotide are called  
(A) Base substitution mutation      (B) Nonsense mutation  
(C) Frameshift mutation      (D) Misense mutation
3. The DNA content in a pollen mother cell is 2C. What would be the content of DNA per cell at pachytene?  
(A) 1C      (B) 2C      (C) 4C      (D) 6C
4. Which of the following enzyme fix CO<sub>2</sub> in the Calvin cycle of photosynthesis and also play a role in photorespiration in C<sub>3</sub> plant?  
(A) Pyruvate carboxylase      (B) Isomerase  
(C) Ribulose diphosphate carboxylase      (D) Phosphoribulokinase
5. Global warming refers to increase in atmospheric temperature that is of serious environmental concern. The molecule that contribute to this phenomena are  
(A) CO<sub>2</sub>, ethylene, sulphur dioxide  
(B) Sulphur dioxide, methane, CO  
(C) Ethylene, nitrous oxide, ozone  
(D) CO<sub>2</sub>, methane, chloro fluoro carbon compounds
6. The causal agent for leaf curl disease of tomato is  
(A) Mycoplasma      (B) Virus      (C) Bacteria      (D) Fungus
7. Which of the following phytohormones play a role in seed germination?  
(A) Gibberelins      (B) Cytokinins      (C) Auxins      (D) Abscissic acids
8. Cellwall polysaccharides are synthesized mainly in  
(A) Cytosol      (B) Golgi apparatus  
(C) Endoplasmic reticulum      (D) Plasma membrane
9. Chloroplasts may be obtained in a relatively pure form by differential centrifugation of the cell homogenate for 2 minutes at  
(A) 100xg      (B) 12,000xg      (C) 1000xg      (D) 144,000xg

