

**Biology**

**Note:** Time allowed for Section-B and Section-C is 2 Hours and 40 minutes.

**SECTION-B**

**Q2:** Answer any TEN parts. Each part carries FOUR marks.

- 1) State about the volumes and capacities of lungs.
  - 2) Compare the structure and function of nephron and dialyzer?
  - 3) Enlist the name of joints according to their structural classification.
  - 4) Write briefly about drug tolerance.
  - 5) Define hormone and name the hormones secreted from anterior lobe of pituitary gland?
  - 6) Innate behavior ensure the survival of individual in a population, how?
  - 7) Briefly discuss about Epididymis and Fallopian tubes.
  - 8) Mention about the system level changes in aging?
  - 9) Illustrate about Erythroblastosis foetalis.
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- 10) Write any four differences between Transcription and Translation.
  - 11) Briefly elaborate the statement "Natural Selection or Survival of the fittest".
  - 12) Briefly discuss about Global Warming.
  - 13) Write the applications of PCR.

**SECTION-C**

**Note:** Attempt any THREE questions. All questions carries equal marks.

- Q3:** (a) Explain the term Acclimatization and Selective Breeding.  
 (b) Mention any four aspects related to the safety in Biotechnology.
- Q4:** (a) Discuss about human lungs.  
 (b) Discuss about lithotripsy.
- Q5:** (a) Write the causes, kinds and symptoms of stroke.  
 (b) Briefly explain negative feedback mechanism.
- Q6:** Explain gene and chromosomal mutation in detail.