

**U.G. 5th Semester Examination - 2020**

**ZOOLOGY**

[HONOURS]

**Discipline Specific Elective (DSE)**

**Course Code : ZOOL-H-DSE-T-02**

Full Marks : 40

Time : 2½ Hours

*The figures in the right-hand margin indicate marks.*

*Candidates are required to give their answers in their own words as far as practicable.*

1. Answer any **five** questions of the following:  $2 \times 5 = 10$ 
  - a) Write down the differences between gram-positive and gram-negative bacteria.
  - b) What is cyanophycin?
  - c) Define pathogen with example.
  - d) Write down names of normal flora present in the intestinal tract.
  - e) Write down importance of Culture Media.
  - f) Write down the differences between Exotoxins and Endotoxins.
  - g) What is transformation?
  - h) Mention the function of external capsule of bacteria.

2. Answer any **two** questions of the following:  $5 \times 2 = 10$ 
  - a) What are the beneficial functions of normal flora?
  - b) Explain Koch's postulates.
  - c) Describe the different types of Transduction.
  - d) Write down the procedure of acid-fast staining.
3. Answer any **two** questions of the following:  $10 \times 2 = 20$ 
  - a) What is the full form of AIDS? Describe the mode of action and preventive measures of AIDS Virus. 1+5+4
  - b) Describe the routes of entry of microorganisms and its dissemination to secondary sites. 5+5
  - c) Write down the morphology of bacteria in detail. Explain Pandemic. 7+3
  - d) Write short notes on: 5+5
    - i) Conjugation in bacteria.
    - ii) Staphylococcal food poisoning.

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