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School of Biological and Life sciences

Bachelor of Science Honours in Biomedical Science

Semester End Examination - May 2024

Duration : 180 Minutes

Max Marks : 100

Sem VI - P1UA601T - Medical Microbiology and Advanced Medicinal ChemistryGeneral Instructions*Answer to the specific question asked**Draw neat, labelled diagrams wherever necessary**Approved data hand books are allowed subject to verification by the Invigilator*

- 1) Explain how can you prevent E. coli infection? K1 (2)
- 2) Give one example of signalling molecule of steroid hormone K2 (4)
- 3) What were some of the global responses to the swine flu pandemic of 2009 K2 (6)
- 4) Elaborate the difference between targeting DNA and targeting RNA for therapeutic purposes K3 (9)
- 5) Describe the Ebola virus and its transmission pathways K3 (9)
- 6) Elaborate on the molecular mechanisms by which steroid hormone receptors regulate gene transcription. Provide examples of specific steroid hormones and their target tissues K5 (10)
- 7) Categorize some examples of diseases or conditions treated by targeting nucleic acids. K4 (12)
- 8) List of diseases of various organ systems and their causative agents K5 (15)
- 9) Analyze the risk factors associated with tinea pedis, including environmental and lifestyle factors. K5 (15)
- 10) Evaluate the effectiveness of different treatment options for kala-azar, including drug therapies and combination treatments K6 (18)