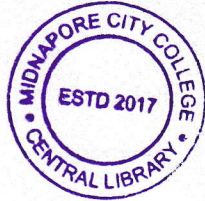


The West Bengal University of Health Sciences
M.Sc. in Medical Microbiology Part-I February-March, 2023
Examination

Subject : Research Methodology and Environmental Sciences

Time : 3 hrs.



Full Marks : 100

Attempt all questions

Choose the most appropriate answer of the following :

1. What are the roles of biomedical research in the practicing field of healthcare professionals? Briefly state how to review a research article to enhance knowledge. 4+6
2. What is ecological pyramid? Prescribe the various types of ecological pyramids with suitable examples. 2+8
3. Differentiate between renewable and non-renewable resources. Mention the role of human in conservation of energy resources citing examples. 4+6
4. What are the broad types of epidemiological studies? Explain how would you plan for an epidemiological study to investigate a research problem. 4+6
5. What do you mean by Randomized Controlled Trial? What are its advantages over and above the conventional empirical observations? What is Randomization? 4+4+2
6. What are the various types of biodiversity? 'India is a mega-diversity nation' – Justify. 4+6
7. What is photochemical smog? How is it formed? Briefly discuss its health impacts. 2+2+6
8. Define urban waste and classify it. Illustrate the pathways of sustainable urban waste management. 2+2+6
9. Mention different types of air pollutions. What are the global impacts of water pollution and how we can prevent it? 4+3+3
10. What are the various watershed management practices? State its benefits and limitations. 4+3+3