



M.Sc. IV Semester Degree Examination, Sept./Oct. - 2024

MICROBIOLOGY

MB DSE-3 : Molecular Diagnostics

(NEP)

Time : 3 Hours

Maximum Marks : 70

Note : Answer **any five** of the following questions with question no.1 is **Compulsory**. Each question carries **equal** marks.

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| 1. | Describe the Central dogma. | 14 |
| 2. | Write an account on applications of BI-RADS and PI-RADS. | 14 |
| 3. | Explain the principle and uses of molecular pathology. | 14 |
| 4. | Discuss the principle of molecular diagnosis of COVID-19. | 14 |
| 5. | Describe with examples of inherited diseases and their diagnosis. | 14 |
| 6. | (a) Discuss two methods of cancer diagnosis. | 5 |
| | (b) Explain cytoskeleton disorders and its diagnosis. | 5 |
| | (c) Write a note on lactic acidosis. | 4 |
| 7. | (a) Briefly discuss RTPCR in diagnosis of HIV. | 7 |
| | (b) Explain PCR based microbial typing. | 7 |
| 8. | (a) Write an account on types of infectious diseases. | 5 |
| | (b) Explain culture independent analysis of bacteria. | 5 |
| | (c) Write a note on markers in inflammation. | 4 |

