

BHARATI VIDYAPEETH (DEEMED TO BE UNIVERSITY), PUNE- INDIA
MASTER OF SCIENCE (MEDICAL MICROBIOLOGY)
M. Sc. (Medical Microbiology) :SUMMER- 2022
SUBJECT : PAPER - I

Day : Friday
Date : 1/7/2022

S-792-2022

Time : 01:30 PM-04:30 PM
Max. Marks : 100

N. B. :

- 1) All questions are **COMPULSORY**.
 - 2) Figures to the right indicate **FULL** marks.
 - 3) Draw neat and labelled diagrams **WHEREVER** necessary.
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Q. 1 What is polymerase chain reaction? Describe various types of PCR and their applications. Add a note on disadvantages of PCR. **(15)**

Q. 2 Describe Quality Assurance and Quality control in microbiology laboratory. **(15)**

Q. 3 Write briefly **ANY SEVEN** of the following: **(70)**

- a) Describe various sterilization methods used in CSSD.
- b) Describe management of Biomedical waste in your hospital.
- c) Describe various biochemical reactions used for identification of bacteria in the diagnostic microbiology with examples of bacteria giving these reactions.
- d) Describe fluorescent microscope and its applications.
- e) Classify various culture media. Describe commonly used culture media in diagnostic microbiology.
- f) Describe various mechanisms of drug resistance in bacteria.
- g) Describe various methods of anaerobiosis.
- h) Describe various staining techniques used in diagnostic microbiology.

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