

Seat No.	
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M.Phil./Ph.D. Entrance Examination, September - 2019**MICROBIOLOGY**

Day and Date : Friday, 20 - 09 - 2019

Total Marks : 100

Time : 1.00 p.m. to 3.00 p.m.

- Instructions :**
- 1) All questions are compulsory.
 - 2) Each question carries 2 marks.
 - 3) Answers should be marked in the given OMR answer sheet by darkening the appropriate option.
 - 4) Use black ball point pen only for marking the circle. Do not make any stray mark on the OMR Answer Sheet.
 - 5) Follow the instructions given on OMR Sheet.
 - 6) Rough work shall be done on the sheet provided at the end of question paper.
 - 7) Only non programmable calculators are allowed.

- 1) Which of the following is not a limitation of Beer Lambert's law, which gives the relation between absorption, thickness and concentration?
 - A) Concentration must be lower
 - B) Radiation must have higher bandwidth
 - C) Radiation source must be monochromatic
 - D) Does not consider factors other than thickness and concentration that affect absorbance

- 2) Which of the following is not true about Absorption spectroscopy?
 - A) It involves transmission
 - B) Scattering is kept minimum
 - C) Reflection is kept maximum
 - D) Intensity of radiation leaving the substance is an indication of concentration

P.T.O.

- 13) A researcher is generally expected to _____.
- A) study the existing literature in a field
 - B) generate new principles and theories
 - C) synthesize the ideas given by others
 - D) evaluate the findings of the study
- 14) The government of India conducts Census other every 10 years. The method of research in this process is _____.
- A) case study
 - B) developmental
 - C) survey
 - D) experimental
- 15) Research ethics do not include _____
- A) Honesty
 - B) Subjectivity
 - C) Integrity
 - D) Objectivity
- 16) In the process of conducting research, formulation of hypothesis is followed by _____
- A) Statement of objectives
 - B) Analysis of data
 - C) Selection of research tools
 - D) Collection of data

- 27) HTTP stands for _____
- A) Hyper Test Transport Protocol
 - B) Hyper Text Transfer Protocol
 - C) Hyper Test Transfer Protocol
 - D) Hyper Text Training Programme
- 28) Human genome project was accomplished during _____.
- A) 1989-2004
 - B) 1990-2003
 - C) 1984-1999
 - D) 2003-2013
- 29) The Protein separation in chromatographic techniques are often based on the following properties except;
- A) Solubility of protein
 - B) Charge of protein
 - C) Viscosity of protein
 - D) Specific binding affinity of protein
- 30) An example of complement fixation test is _____
- A) Widal test
 - B) Wasserman test
 - C) Weil-Felix test
 - D) Kahn test

Rough Work