



AC-5081
P. G. D. M. L. T. Examination
April / May – 2015
Paper - I : Microbiology & Immunology
(Old Course)

Time : 3 Hours]

[Total Marks : 70

Instructions :

(1)

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| <p>नीचे दृशावेव निशानीवाणी विगतो उत्तरवही पर अवश्य लपवी. Fillup strictly the details of signs on your answer book.</p> <p>Name of the Examination : P. G. D. M. L. T.</p> <p>Name of the Subject : PAPER - I : MICROBIOLOGY & IMMUNOLOGY (OLD)</p> <p>Subject Code No. : 5 0 8 1 Section No. (1, 2,.....): 1&2</p> | <p>Seat No. : <input type="text"/><input type="text"/><input type="text"/><input type="text"/><input type="text"/><input type="text"/><input type="text"/><input type="text"/><input type="text"/><input type="text"/><input type="text"/></p> <p style="text-align: center;">Student's Signature</p> |
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2. Answers to each section to be written in separate answer books.
3. Answer **all** the questions.
4. Draw neat and labeled diagrams wherever necessary.
5. Figures to the **right** indicate full marks of the question.

Section-I

Q.1 Write detail on: Antigenic structure, Pathogenicity, cultivation and lab diagnoses of "Staphylococcus". (12)

OR

Q.1 Define Mycosis. Give detail classification of pathogenic fungi and opportunistic fungi. (12)

Q.2 Write short notes on any THREE. (15)

- a) Louise Pasteur.
- b) Significance of Bergey's manual.
- c) Bright field microscopy
- d) Dengue.
- e) Quality control in Microbiology.

Q.3 Write in shorts on any FOUR. (08)

- a) Differentiate: Gram staining and Acid-fast staining.
- b) Write general properties of viruses.
- c) Define decontamination. Enlist its methods.
- d) Explain Hepatitis. Name the causative agents for it.
- e) What is bacteriological media? State its significance.
- f) Write full form of CMV and name the infection caused by it.

Section-II

Q.1 Explain Monoclonal antibodies and their production in detail. (12)

OR

Q.1 Write detail notes on components of immune systems. (12)

Q.2 Write short notes on any THREE. (15)

- a) Agglutination test.
- b) Immediate Vs. delayed HS.
- c) T cells and B cells.
- d) Acquired Vs Innate immunity
- e) Autoimmunity.

Q.3 Write in shorts on any FOUR. (08)

- a) Name any four serological tests with its use.
 - b) Explain polyclonal antibodies.
 - c) Name the scientist who discovered the Ab structure and state its significance.
 - d) Define and differentiate: Active Vs. passive immunity
 - e) Explain vaccines and its importance.
 - f) Define: 1) Forssman Ag
2) Heterophiles.
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