



Name :

Roll No. :

Invigilator's Signature :

CS/BOPTM/SEM-3/BO-303/2012-13

2012

**MEDICAL PATHOLOGY & MICROBIOLOGY
(GEN. & OCULAR)**

Time Allotted : 3 Hours

Full Marks : 70

The figures in the margin indicate full marks.

*Candidates are required to give their answers in their own words
as far as practicable.*

GROUP - A

(Multiple Choice Type Questions)

1. Choose the correct alternatives from the following :

10 × 1 = 10

i) All are flagellated bacteria except

- | | |
|-----------------------|---------------------------|
| a) <i>E. coli</i> | b) <i>Salmonella sp.</i> |
| c) <i>V. cholerae</i> | d) <i>Clostridium sp.</i> |

ii) Vaccine is an example of

- a) Natural active immunity
- b) Natural passive immunity
- c) Active induced immunity
- d) Passive induced immunity.

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iii) The full form of CD receptor protein is

- a) Clotting Designator
- b) Cluster Designator
- c) Clump Designator
- d) Constrictor Designator.

iv) Which of the following immunoglobins is found in tear ?

- a) IgA
- b) IgD
- c) IgE
- d) IgM.

v) Facultative anaerobic bacteria

- a) do not tolerate O_2
- b) require low O_2 to grow
- c) can be grown aerobically as well as anaerobically
- d) none of these.

vi) The first event of inflammation is

- a) Leukocytic event
- b) Margination & Rolling
- c) Vascular changes
- d) Adhesion & transmigration.

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vii) Which of the following diseases and bacteria are matched up incorrectly ?

- a) Cellulitis — *Pasteurella multocida*
- b) Tularemia — *Francisella tularensis*
- c) Gastritis — *Helicobacter pylori*
- d) Lyme disease — *Yersinia pestis*.

viii) Spores are killed by

- a) Boiling
- b) Filtration
- c) Autoclave
- d) None of these.

ix) Anamnestic response to an antigen is

- a) primary response
- b) secondary response
- c) tertiary response
- d) quaternary response.

x) MHC protein is also called as

- a) HLA
- b) master protein
- c) major protein
- d) memory protein.

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GROUP - B

(Short Answer Type Questions)

Write short notes on any *three* of the following.

3 × 5 = 15

2. Herpes simplex virus.
3. Hypersensitivity.
4. Sterilization.
5. Thrombosis.
6. Blepharitis.

GROUP - C

(Long Answer Type Questions)

Answer any *three* of the following. 3 × 15 = 45

7. What are the different types of inflammation ? Describe vascular and cellular events of acute inflammation.
8. What are different types of infections ? Write a short note on wound healing. 8 + 7
9. What is antimicrobial chemotherapy ? Discuss the steps of viral replication ? 7 + 8
10. Discuss the types and characteristics of metaplasia, dysplasia and neoplasia. 5 + 5 + 5
11. What is sigmoid growth curve ? Write the factors controlling the bacterial growth curve. $7 \frac{1}{2} + 7 \frac{1}{2}$



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