	Utech
Name:	
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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:

 $10 \times 1 = 10$

- i) All are flagellated bacteria except
 - a) E. coli

- b) Salmonella sp.
- c) V. cholerae
- d) Clostridium sp.
- 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 proteinis
 - a) Clotting Designator
 - b) Cluster Designator
 - c) Clump Designator
 - d) Constrictor Designator.
- iv) Which of the following immunoglobins is found in tear?
 - a) IgA

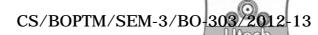
b) IgD

c) IgE

- d) IgM.
- v) Facultative anaerobic bacteria
 - a) do not tolerate O_2
 - b) reuire low ${\rm O_2}$ 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 Heliobacter pyloria
 - 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.

 $3 \times 5 = 15$

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

GROUP - C

(Long Answer Type Questions)

Answer any *three* of the following. $3 \times 15 = 45$

- 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 gorwth curve. $7\frac{1}{2} + 7\frac{1}{2}$

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