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Reg. No. : .....

Name : .....

Second Professional M.B.B.S. Examination, June 2009
(Old Scheme)
MICROBIOLOGY (Paper – I)
(Includes General Bacteriology, Systemic Bacteriology and Immunology)

Time : 2 Hours Max. Marks : 40

Instructions *:1) Answer* ***all*** *questions.*
2) Draw diagrams ***wherever*** *necessary.*
3) MCQs should be ***answered first*** *in the response sheet attached.*

SECTION – A

I. Multiple choice questions : **(8× ½=4 Marks)**

1) Paul Ehrich is known as father of
   a) Medical Microbiology b) Chemotherapy
   c) Antiseptic surgery d) Immunology

2) Biological control used for autoclave is
   a) Bacillus subtilis b) Clostridium tetani
   c) Bacillus pumilis d) Bacillus stearothermophilus

3) A carrier who acquires the pathogen from another carrier is known as
   a) Chronic carrier b) Contact carrier
   c) Paradoxical carrier d) Temporary carrier

4) Drug resistance in tuberculosis is due to
   a) Transposons b) Mutation
   c) Conjugation d) Transformation

5) Combined immunodeficiency is seen in
   a) Nezelof's syndrome b) Bruton's disease
   c) Chediac-Higashi syndrome d) Di George syndrome

P.T.O.

6) All the following are systemic autoimmune diseases EXCEPT
   a) Grave's disease b) Rheumatoid arthritis
   c) Sjogren's syndrome d) SLE

7) Incomplete antibodies can be detected by
   a) Coomb's test b) Widal test c) Paul-Bunnel test d) Kahn test

8) Brill Zinsser disease is caused by
   a) Rickettsia rickettsi b) Rickettsia prowazaki
   c) Rickettsia typhi d) Rickettsia akari

II. Match the following : **(8× ½=4 Marks)**

A) 1) Calymmatobacterium granulomatis	a) Ovoya fever
2) Bartonella bacilliformis	b) Woolsorter's disease
3) Bacillus anthracis	c) Hemolytic-uremic syndrome
4) Enterohemorrhagic E.coli	d) Donovanosis
B) 1) T-cells	A) Teichoic acid
2) Graft rejection	B) Dipicolinic acid
3) Bacterial spore	C) Lymphokines
4) Gram positive bacteria	D) HLA typing

III. Draw and label : **(2×1=2 Marks)**

1) Parts of a Bacterial cell

2) Cellwall of Mycobacterium

IV. Short answer questions : **(4×1=4 Marks)**

1) What is attenuation ?

2) What is isoimmunization ?

3) What is Enriched medium ?

4) Mention two specific tests for syphilis.

V. Write short notes on : **(3×2=6 Marks)**

1) Tuberculin test
2) Serum sickness
3) TRIC agents

SECTION – B

VI. Read this paragraph and answer the following questions : **(1+2+2+5=10)**

A twenty three year old lady presented with frequency in passing urine and pain during micturition along with fever for past 3 days. Microscopy of urine showed plenty of puscells and bacilli.

a) What is your diagnosis ?
b) Enumerate four common bacteria causing this condition.
c) Mention four predisposing factors.
d) How will you confirm the diagnosis in the laboratory ?

VII. Short answer questions : **(4×1=4 Marks)**

1) Mention two obligate intracellular bacteria.
2) Enumerate two differences between Classical and Eltor vibrios.
3) What is artificial active immunity ?
4) Mention two cell wall acting antibiotics.

VIII. Write short notes on : **(3×2=6 Marks)**

1) Mycobacterium avium- intracellulare
2) Bacterial flagella
3) Immunological surveillance.

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