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MBBS 2nd Professional Examination, 2012

Microbiology

Paper I

Time Allowed : 2 Hours Full Marks : 40

Use Separate answer script for each group

Attempt all questions. The figures in the margin indicate distribution of marks in each question.

Group – A

1. a) A 35 year old man with a history of contact with a female sex worker has come to OPD with urethral discharge. The urethral discharge didn't show any Gram –ve diplococci . What is your diagnosis?What are the possible etiological agents? How will you proceed for laboratory diagnosis of any one of these agents? What is L farm? .5+1.5+6+2

or

b) A 12 year old boy has been brought to emergency with severe dehydration and cold clammy extremities and history of frequent passage of painless watery stool. What is the clinical condition and etiological agent? Discuss the pathogenesis and laboratory diagnosis of this case. 1+4+5

Group - B

2. Write short notes on (***any three***) : 3 x 4
   a) Heterophil antigen
   b) IgE
   c) VDRL test
   d) Mutation

Group - C

3. Comment on (***any three***) : 3 x 4
   a) Cell mediated immunity is important for recovery from viral infection
   b) Structure of Gram +ve cell wall is different from Gram –ve orgasm
   c) Plasmid has an important role in transfer of drug resistance in bacteria.
   d) Though a commensal in GI tract E. coli may cause diarrhea

Group – D

4. Differentiate between : 3 x 2
   a) CD4+ and CD8+ lymphocytes
   b) Secretory and invasive diarrhea
   c) Lag phase and log phase of bacterial growth curve

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