



November / December - 2018

Microbiology : Paper - II

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(Systemic Bacteriology, Virology, Mycology & Clinical Microbiology)

Time : Hours)

[Total Marks : _____]

Instruction :

નીચે દર્શાવેલ નિશાનીવાળી વિગતો ઉત્તરવહી પર અવશ્ય લખવી.
Fill up strictly the details of signs on your answer book.

Name of the Examination:

Second Year M. B. B. S.

Name of the Subject :

Microbiology : Paper - II

Subject Code No.

3	7	4	3
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Section No. (1, 2,): **1, 2**

Seat No.: _____

Student's Signature _____

SECTION - I

1. A 10 year old child admitted in hospital with complains of fever, abdominal cramp & diarrhea, containing blood and mucus. Stool culture identified the NLF bacteria on MacConkey's medium. Identify the disease & answer the following :
- Name the causative agent & describe the morphology of causative agent
 - Write the pathogenicity of causative agent
 - Describe the laboratory diagnosis of causative agent.

OR

- 1 A 28 years female patient visited the hospital with pus discharging swelling on the hand. Gram stain of discharge shows the presence of GPC in cluster. Culture shows the B-hemolysis on blood agar. Bacteria ferment mannitol with acid only. Identify the organism and answer the following :
- Name the causative agent & describe the morphology of causative agent.
 - Write the pathogenicity of causative agent.
 - Describe the laboratory diagnosis of this causative agent.

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[Contd...



- 2 Write short notes on : (any **three**) 12
- (a) Embryonated egg culture
 - (b) Zika virus
 - (c) Pathogenicity & laboratory diagnosis of polio virus.
 - (d) Virulence factors of pneumococci.

SECTION - II

- 3 Write short notes on: (any **two**) 10
- (a) Opportunistic fungal infections.
 - (b) Virulence factors & lab. diagnosis of cryptococci
 - (c) Mucormycosis
- 4 Write in short : (1-2 sentences) 10
- (a) Name four bacteria causing Non Gonococcal Urethritis.
 - (b) What is Germ tube test ?
 - (c) Enumerate Dimorphic fungi.
 - (d) What are mycotoxins ?
 - (e) What is a treatment of choice in ABPA ?
 - (f) Name the viruses causes hemorrhagic fever.
 - (g) Write in brief about HACEK group.
 - (h) Enumerate four DNA viruses.
 - (i) Write about importance of widal test.
 - (j) What are the signs and symptoms of Zika virus patient ?

