



RAN-3713

Second Year M.B.B.S. Examination

December / January - 2019 / 2020

Microbiology : Paper - II

(Systemic bacteriology, Virology & Mycology)

Time: 2 Hours]

[Total Marks: 40

સૂચના : / Instructions

નીચે દર્શાવેલ નિશાનીવાળી વિગતો ઉત્તરવટી 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 1 3

Seat No.:

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Student's Signature

Section -I

Q.1 Write notes on:

1. A 50 years old male was admitted to the hospital with complaint of pain and pus discharging swelling in the lateral aspect of his left calf. Gram stain shows gram positive cocci in clusters, culture on blood agar shows golden yellow pigmented beta hemolytic colonies. Identify the organism and answer the following:

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- a) Name the causative agent and describe the morphology of causative agent.
- b) Write about virulence factor of this organism.
- c) briefly discuss the laboratory diagnosis

OR

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[1]

[P.T.O.]

1. A 10 year old girl developed severe watery diarrhoea and vomiting. The stool collected has a rice watery type of appearance. It was sent for microbiological analysis. 8
- a) What is the probable etiological diagnosis of this condition and write morphology of causative organism.
- b) Describe in detail about pathogenesis of causative organism.
- c) Write briefly about laboratory diagnosis.

Q.2 Write short notes on: (Any Three) 12

- a) Laboratory diagnosis of urinary tract infection.
- b) Tuberculin test.
- c) Candidiasis.
- d) Antigenic structure of HIV virus.

Section- II

Q.3 Write notes on: (Any Two) 10

- a) Gas gangrene.
- b) Laboratory diagnosis of Hepatitis B.
- c) Mucormycosis.

Q.4 Write in short: (1-2 Sentences) 10

- a) Name four organism causing Non-gonococcal urethritis.
- b) Castaneda method.
- c) Antigenic shift.
- d) Name two bacteria causing food poisoning.
- e) Germ tube test.
- f) Draw diagram of bacteriophage.
- g) Enumerate two viruses causing Diarrhoea.
- h) Examples of two bacterial zoonotic diseases.
- i) Nagler reaction.
- j) Reverse CAMP test.