

**MBBS II (Second) Professional Examination 2019-20**

Course Code:MBS202

Paper ID: 03219203

**Microbiology-I**

Time: 2 Hours 40 Minutes

Max Marks: 30

**Note:** Attempt all questions. Draw proper diagrams to support your answer.

**Part 'B'**

1. Enumerate 3 most common bacteria causing pyogenic meningitis. How will you differentiate pyogenic meningitis from tubercular meningitis from CSF findings. How will you make the aetiological diagnosis in a case of pyogenic meningitis? (1.5+1.5+4=7)
2. How do Treponema differ from Borrelia and Leptospira in morphology. How will you confirm the diagnosis in a suspected case of Syphilis who is presenting with painless ulcer on glans penis? (3+4)
3. Differentiate between: (4+4)
  - a) L – forms of bacteria and mycoplasma
  - b) Vibrio cholerae classical and eltor.
4. Write short notes on: (2x4=8)
  - a) Contribution of Louis Pasteur in Microbiology
  - b) Transduction.
  - c) Widal test
  - d) Albert's staining

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Roll No.

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Student's Signature

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Student's Name

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Invigilator's Signature

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Course Code:MBS202

Microbiology-I

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**Part 'A'**

Time: 20 Minutes

Max Marks: 10

- Note:** 1. Attempt all questions and return this part of the question paper to the invigilator after 20 Minutes.  
2. Please tick (✓) correct one only. Cutting, overwriting or any other marking are not allowed.  
3. For answering please use Ball- pen only.

Q.2 Which of the following is cell wall deficient:

- Burkholderia
- Rickettsia
- Mycoplasma
- Mycobacterium

Q.3 Generation time of Mycobacterium tuberculosis is:

- 20 days
- 20 hours
- 20 minutes
- 20 seconds

Q.4 Which of the following is used commercially for sterilization of plastic disposable items;

- Ethylene oxide
- Autoclave
- Hot air oven
- Ethyl alcohol

Q.5 TSI medium contain following carbohydrate except:

- Glucose
- Lactose
- Mannitol
- Sucrose

Q.6 F factor carrying some chromosomal genes is known as:

- F factor
- F prime
- HFr
- RTF

Q.7 Chemical nature of Endotoxin is:

- Lipo polysaccharide
- Protein
- Carbohydrate
- None of the above

Q.8 Tube coagulase test detects:

- Free coagulase
- Bound coagulase
- Both the above
- None of the above

Q.17 Haemophilus influenza requires:

- X factor
- V factor
- X and V both
- Neither X nor V

Q.18 Which is the most infective stage in Whooping cough:

- Catarrhal stage
- Paroxysmal stage
- Convalescent stage
- None of the above

Q.19 Which of the following animals are involved in causing brucellosis:

- Sheep
- Goat
- Cattle
- All of the above

Q.20 Lepromin test is negative in:

- Lepromatous leprosy
- Tuberculoid leprosy
- Both of them
- None of them

c) Potassium tellurite agar

d) Crystal violet Blood agar

Q.10 Chlamydia trachomatis is

- Chlamydia trachomatis
- Mycoplasma hominis
- Ureaplasma urealyticum
- All of the above

P.T.O.

Q.11 Babes Ernst granules are present in:

- Mycobacterium tuberculosis
- Mycobacterium leprae
- Corynebacterium diphtheriae
- Yersinia pestis

Q.12 Which of the following may show swarming on blood agar:

- Clostridium
- Vibrio
- Pseudomonas
- Proteus

Q.13 Significant bacteriurea means:

- More than  $10^5$ /ml
- Between  $10^3 - 10^5$  /ml
- Less than  $10^3$ /ml
- None of the above

Q.14 Which Shigella species does not ferment mannitol:

- Shigella dysenteriae
- S. flexneri
- S. boydii
- S. sonnei

Q.15 In which species of Salmonella, the H antigen are monophasic:

- Salmonella typhi
- S. paratyphi – A
- S. enteritidis
- All of the above

Q.16 Which of the following may cause food poisoning after consumption of sea food:

- V. cholerae
- V. parahaemolyticus
- V. alginolyticus
- V. vulnificus