

**MBBS II (Second) Professional Examination 2014-15**

Course Code:MBS202

Paper ID: 0322405

**Microbiology-I**

Time: 2 Hours 40 Minutes

Max Marks: 30

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

**Part 'B'**

1. A 20 years old male has come with fever of 10 days duration along with mild coated tongue and splenomegaly. (1+1+4+1=7)
- a) What is the most probable diagnosis?
  - b) Name the bacteria causing this condition.
  - c) Discuss the tests you would like to carry out.
  - d) Name different antibiotic choices available to treat the condition.
2. Define hypersensitivity reaction. What are different hypersensitivity reactions? Discuss type-I hypersensitivity reaction with reference to mechanism and manifestations. (1+1+5=7)
3. Describe briefly: (8+8=16)
- a) Mechanisms of genetic transfer in bacteria
  - b) Etiology & pathogenesis of cholera

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Roll No.

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Student's Signature

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Course Code:MBS202

Student's Name

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Invigilator's Signature

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Paper ID: 0322405

**Microbiology-I**

**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 spirochaetes **can be** seen by compound microscope:
- Treponema
  - Leptospira
  - Borrelia
  - None of the above
- Q.3 The concentration of  $H_2SO_4$  used for decolorization of *Mycobacterium leprae* is:
- 20%
  - 1%
  - 5%
  - 0.5%
- Q.4 Which one of the following is **not strictly** microaerophilic:
- Nocardia
  - Actinomyces
  - Helicobacter pylori
  - Neisseria gonorrhoeae
- Q.5 The usual **cut off titre** of Widal test for diagnosis typhoid fever is:
- 1:20
  - 1:40
  - 1:80
  - 1:160
- Q.6 Which of the following immunoglobulin is **better marker** for diagnosing acute infections:
- IgG
  - IgM
  - IgD
  - IgE
- Q.7 Which of the following bacteria is the **commonest cause** of neonatal meningitis:
- Escherichia coli
  - Haemophilus influenzae
  - Streptococcus pyogenes
  - Staphylococcus aureus
- Q.8 An infection contracted **due to procedures** in the hospital is called as:
- Nosocomial
  - Iatrogenic

- Vibrio parahaemolyticus
- Vibrio cholerae
- Yersinia enterocolitica
- Shigella dysenteriae

- Q.17 Which of the following is **not** an enriched medium:
- Loeffler's serum slope
  - Sabouraud's dextrose agar
  - Chocolate agar
  - Blood agar
- Q.18 Usual **incubation period** for the growth *Mycobacterium tuberculosis* is:
- 3-8 weeks
  - 3-8 days
  - 3-8 hours
  - 3-8 months
- Q.19 Which of the following medium is poured after melting **without autoclaving**:
- Blood agar
  - TCBS
  - Nutrient agar
  - McConkey agar
- Q.20 Which one of the following media is used for **rapid growth** of *Corynebacterium diphtheriae*:
- Mueller Hinton agar
  - Blood agar
  - Loeffler's serum slope
  - Tellurite blood agar

- Chlamydia pneumoniae
- Mycoplasma pneumoniae
- Rickettsiae prowazekii

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- Q.10 Which of the following medium is a **selective** medium for *Salmonella Typhi*:
- Tellurite blood agar
  - TCBS
  - Wilson Blair medium
  - Selenite F broth

P.T.O.

- Q.11 The substance which **induces** proliferation of lymphocytes is called as:
- Antigen
  - Mitogen
  - Hapten
  - Adjuvant
- Q.12 **Montoux** test is an example of:
- Type I hypersensitivity reaction
  - Type IV hypersensitivity reaction
  - Type II hypersensitivity reaction
  - Type III hypersensitivity reaction
- Q.13 In *Mycobacterium tuberculosis* multidrug therapy is administered to avoid development of drug resistance through:
- Plasmids
  - Transformation
  - Mutation
  - Bacteriophages
- Q.14 Which of the following is the **most common** cause of urinary tract infection:
- Coagulase negative Staphylococci
  - Neisseria gonorrhoeae
  - Escherichia coli
  - Citrobacter freundii
- Q.15 Which of the following vaccine **must** be taken before joining a diagnostic laboratory:
- Small pox
  - Polio
  - Hepatitis B
  - Dengue
- Q.16 Which of the following bacteria **does not** cause dysentery:

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