

Second Year MBBS Examination

II MBBS Microbiology Paper 2 (New)

Time: 2 hours

Max

Marks: 100

Date: 03-03-2022

Instructions:

1. Answer to the points.
2. Figure to the right indicates marks.
3. Use separate answer books for each section.
4. Draw diagrams wherever necessary.
5. Write legibly.

Section 1

1. Structured Long Question: (Any 1 out of 2) (10)

- a. 52 years old male attended surgical OPD with complaints of severe pain in the lateral aspect of his right calf & pus discharge from ingrown hair. On physical examination, the local area was found red, warm & tender. Pus was aspirated & sent to laboratory for bacteriological examination. Gram stain showed Gram positive cocci arranged in clusters & culture on blood agar showed beta hemolytic colonies.
 1. What is the clinical diagnosis & causative agent? 2
 2. Describe pathogenicity caused by the organism 4
 3. Briefly discuss laboratory diagnosis of above case. 4
- b. A 54-year-old male with fever, chills and rigor since five days. The patient developed convulsions prior to admission. On physical examination Anemia and splenomegaly were present. The blood sample was collected for peripheral

blood smear examination which showed acrole form, multiple ring forms and crescent shaped gametocytes inside RBCs

1. What is the etiological agent based on history? 2
2. Write briefly about the life cycle of the etiological agent. 4
3. Describe complications produced 4

2. Write short notes (Any 2 out of 3) (12)

- a. Laboratory diagnosis of pulmonary tuberculosis
- b. Laboratory diagnosis of viral hepatitis.
- c. Candidiasis

3. Short. notes: (Any 3 out of 4) (18)

- a. Extra intestinal amoebiasis.
- b. Dermatophytoses
- c. Laboratory diagnosis of Cryptococcal Meningitis
- d. Gas gangrene.

4. Answer only in 2-3 sentences: (Any 5 out of 6) (10)

- a. Enumerate four bacterial causes of infective endocarditis
- b. Anti rabies vaccine.
- c. Characteristics of Bacillary dysentery.
- d. Mention two clinical manifestations associated with *Clostridium tetani*
- e. Name two fungi causing food poisoning.
- f. Non Gonococcal urethritis.

Section 2

5. Structured Long Question: (Any 1 out of 2) (10)

- a. A 25 year old truck driver presented to the Skin and VD OPD, with a genital ulcer which was painless. He had unprotected sexual contact with a commercial sex worker one month ago. On examination, the ulcer was found to be circumscribed, indurated and partially healed. The inguinal lymph nodes were enlarged.
1. Enumerate various bacterial causes of genital ulcer. 2
 2. What is the probable diagnosis in this case? 1
 3. Mention the clinical stages of this disease 3
 4. Write the laboratory diagnosis of this disease 4
- b. A 4-year-old boy developed severe watery diarrhoea and vomiting. The stool collected has a rice water type of appearance. It Was sent for bacteriological analysis
1. What is the probable eiological diagnosis of this condition? 2
 2. Describe in detail the pathogenesis of this condition. 4
 3. Add a note on its laboratory diagnosis 4

6. Short notes: (Any 2 out of 3) (12)

- a. Mucormvycosis
- b. Describe oncogenic viruses
- c. Morphology & pathogenesis of HIV/AIDS.

7. Short notes: (Any 3 out of 4) (18)

- a. Antigenic variation in Influenza virus
- b. Urinary tract infection.
- c. Methicillin Resistant Staphylococcus aureus (MRSA)
- d. Laboratory diagnosis of Typhoid fever.

8. Answer only in 2-3 sentences: (Any 5 out of 6) (10)

- a. Pigments of *Pseudomonas aeruginosa*.
- b. Name two viruses which have caused pandemics.
- c. Draw a neat labeled diagram of Hydatid cyst.
- d. Enumerate two important fungi associated in HIV infection.
- e. Lepromin test.
- f. Draw a neat labeled diagram of egg of *Taenia* species.

www.FirstRanker.com