

MCT 7017

Second Year MBBS Examination II MBBS Microbiology Paper 2 (New)

Date: 03-01-2023

Time: 2 hours

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

Max Marks: 50

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

a) 18-year-old young female was admitted to the hospital with intense headache, abdominal discomfort for last 5 days. She had also developed fever which is of remittent type with gradual rise in a step ladder fashion, on

examination she was toxic with temperature of 101 F, Tongue was coated and mild splenomegaly was present.

(a) What is most probable etiological diagnosis? (b) Describe pathogenesis of this condition. (c) Describe lab diagnosis. Write note on treatment and prevention.

b) A 54-year old male was admitted to the hospital with complaints of severe pain in lateral aspect of his left calf and small amount of pus discharge from ingrown hair. On physical examination, the local area was found to be red, warm and tender pus was aspirated and was subjected to gram stain (Showed gram positive cocci in cluster) culture on blood agar showed B haemolytic colony.

(a) What is the clinical diagnosis and causative organism?(b) Enlist the infections caused by causative organism.(c)Enlist the virulence factors of this organism and lab diagnosis of the organism.2+3+5

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

a) Laboratory diagnosis of Gas gangrene

b) Clinical feature and laboratory diagnosis of

Malaria

c) Aspergillosis

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

a) Extra intestinal amoebiasis.

b) Laboratory diagnosis of Dermatophytes

c) Histoplasmosis

d) Clinical feature and laboratory diagnosis of Bacterial meningitis.

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

a) Enumerate four bacteria causing sexual transmitted infection.

b) Clinical characteristics of mycetoma.

c) Enumerate 4 fungus which infects CNS.

d) Difference between Tuberculoid and Lepromatous leprosy.

e) Name two fungi causing food poisoning.

f) Clinical feature of Enteric fever.

Section 2

Max Marks: 50

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

a) A child aged 7 years with high grade fever, toxic, pain in the throat, inability to swallow was brought to the casualty. On examination a white patch was found on the fauces, which started bleeding when touched. No history of immunization is available. (1) What is clinical diagnosis? (2) Name the etiological agent causing this clinical condition. (3) Write in detail pathogenesis and laboratory diagnosis of this condition. (4) Discuss the management of this condition. 1+1+6+2

b) A 28-year-old male having history of sexual exposure with commercial sex worker is presented to a STD clinic with painless hard indurated genital ulcer and painless hard lymph node. (1) What is the probable condition and etiological agent? (2) Describe in detail the pathogenesis of this condition. (3) Describe laboratory diagnosis of above clinical condition 2+4+4

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

a) Opportunistic infection of AIDS.

b) Enumerate oncogenic viruses. Describe any one in detail.

c) Morphology & pathogenesis of HIV/AIDS.

7. Short notes: (Any 8 out of 4) (18)

a) Clinical features and laboratory diagnosis of Round worm infection.

b) Clinical features and laboratory diagnosis of central nervous system infection.

c) Clinical features and laboratory diagnosis of Hepatitis B virus infection.

d) Clinical features and laboratory diagnosis of food poisoning.

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

a) Enumerate 2 parasites infecting Hepatobiliary system.

b) Enumerate 2 organisms causing lobar A pneumonia.

~~c) Morphological classification of fungi.~~

d) Clinical characteristics of Rabies

e) Describe string test.

f) Enumerate four systemic mycoses.

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