

M.B.B.S. DEGREE EXAMINATION

(For the candidates admitted from the Academic Year 2019-2020)

SECOND PROFESSIONAL – SUPPLEMENTARY (CBME)

PAPER II – MICROBIOLOGY

Q.P. Code: 526066

Time: 20 Minutes

Maximum : 20 Marks

Answer All Questions

Choose one correct answer in the box provided in the Answer Script. No overwriting should be done. Choice should be given in Capital Letters.

III. Multiple Choice Questions:

(20 x 1 = 20)

1. A man presented with a 3 day H/o lacrimation redness and discharge from left eye. Later on he developed perforation. Discharge from his eye demonstrated gram negative cocci which were oxidase positive. Which of the following can be the probable organism?
A) Pseudomonas
B) Acinetobacter
C) Neisseria gonorrhoea
D) Moraxella catarrhalis
2. A child came with fever, cold, cough, membrane over tonsils, throat swab is taken, culture should be done on which medium for earliest diagnosis
A) Loeffler's serum slope
B) L J medium
C) MacConkey's Agar
D) Citrate media
3. A major step in the pathogenesis of Listeriosis is
A) The formation of antigen-antibody complex with resultant complement activation and tissue damage
B) The release of hyaluronidase by L. monocytogenes, which contributes to its dissemination from local sites
C) The antiphagocytic activity of the L. monocytogenes capsule
D) The survival and multiplication of L.monocytogenes within mononuclear phagocytes and host epithelial cells.
4. Which of the following are acid fast positive with 20% sulphuric acid
A) M.avium
B) M.leprae
C) M. tuberculosis
D) M. Nocardia
5. Exacerbation of lesions in patients of borderline leprosy is seen in
A) ENL (Erythema Nodosum Leprosum)
B) Lepa reaction type I
C) Jarisch-Herxheimer reaction
D) Resolving leprosy
6. Rapid growing non Tuberculous mycobacteria causing lung infection are all except
A) M. kansasii
B) M.chelonae
C) M. fortuitum
D) M. abscessus
7. A 20-year-old male had pain in abdomen and mild fever followed by gastroenteritis. The stool examination showed presence of pus cells and RBC's on microscopy. The most likely etiological agent is
A) Enteroinvasive E. coli
B) Enteropathogenic E. coli
C) Enterotoxigenic E. coli
D) Enteroaggregative E. coli

8. Salmonella which causes food poisoning
A) Salmonella gallinarum B) Salmonella typhi
C) Salmonella typhimurium D) Salmonella paratyphi A
9. Which of the following is the drug of choice for chemo-prophylaxis of cholera?
A) Tetracycline B) Doxycycline C) Furazolidone D) Cotrimoxazole
10. A diabetic person presents with multiple abscess in leg. Microscopic examination of pus shows gram (-)ve bacilli. On staining with methylene blue bacteria shows bipolar staining. The most likely causative agent is
A) B. pseudomallei B) Y. pestis
C) Pseudomonas mallei D) Botryomycosis
11. A farmer presenting with fever on and off for the past 4 years was diagnosed to be suffering from chronic brucellosis. All of the following serological tests would be helpful in the diagnosis at this state except
A) Standard Agglutination test B) 2-mercapto-ethanol test
C) Complement fixation test D) Coomb's test
12. Disease caused by both Rickettsia and Orientia is transmitted by
A) Rat flea B) Tick C) Louse D) Trombiculid mite
13. The most sensitive method for detecting cervical Chlamydia trachomatis infection is
A) Direct fluorescent antibody test B) Enzyme immunoassay
C) Polymerase chain reaction D) Culture on irradiated McConkey cells
14. Which Rickettsiae are able to grow in cell free media
A) R. Quintana B) R. rickettsii C) R. typhi D) R. tsutsugamushi
15. A 25-year-old farmer presented with history of high grade fever for 7 days and altered sensorium for 2 days. On examination, he was comatose and had conjunctival haemorrhage. Urgent investigations showed a haemoglobin of 11 gm/dl. Peripheral blood smear was negative for malarial parasitic. What is the most likely diagnosis?
A) Brucellosis B) Weil's disease C) Acute viral hepatitis D) Q fever
16. Consider the following statements:
1. In Leptospirosis, the incubation period ranges from 2 to 20 days
2. In Leptospirosis, urine may show microscopic haematuria
Which of the following statement are correct?
A) 1 only B) 2 only C) Both 1 and 2 D) Neither 1 nor 2
17. Mycoplasma pneumonia is characterized by all except
A) Diagnosed by serum cold antibody B) Treatment is erythromycin
C) Cannot be cultured from sputum D) Raised ESR
18. Vaccine preparation requires which virus as vector
A) Rhinovirus B) Vaccinia C) Adenovirus D) Ebola
19. Hantan virus
A) Is a DNA virus B) Causes hemorrhagic fever with renal involvement
C) Belong to Retroviridae family D) Person to person transmission
20. Hepatitis C virus resembles which of the following virus groups
A) Picarno viruses B) Herpes viruses C) Hepadna viruses D) Flavi viruses
