

THE TAMIL NADU DR. M.G.R. MEDICAL UNIVERSITY

[MBBS 0524]

MAY 2024

Sub. Code :6066

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. <u>Choice should be given in Capital Letters.</u>

III. Multiple Choice Questions:

 $(20 \times 1 = 20)$

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) Decorder and a

A) Pseudomonas

B) Acinetobacter

C) Neisseria gonorrhea

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) Mac Conkey'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 mononuculear 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) Lepra reaction type I

C) Jarisch-Herxheimer reaction

D) Resolving leprosy

6. Rapid growing non Tuberculous mycobacteria causing lung infection are all except

A) M. kansasi

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



		2			
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	f choice for chemo-prophylaxis of cho	lera?		
	A) Tetracycline B) Doxycyline	C) Furazolidone D) Cotrimoxa	nzole		
10.	* *	tiple abscess in leg. Microscopic exactining with methylene blue bacteria shagent is B) Y. pestis D) Botryomycosis			
11.	1	All of the following serological test except B) 2-mercapto-ethanol test D) Coomb's test			
12.	Disease caused by both Rickettisia ar	nd Orientia is transmitted by			
	A) Rat flea B) Tick	C) Louse D) Tromb	iculid mite		
13.	The most sensitive method for detect A) Direct fluorescent antibody test C) Polymerase chain reaction	ring cervical Chlamydia trachomatis in B) Enzyme immunoassay D) Culture on irradiated McConl			
14.	Which Rickettsiae are able to grow in	n cell free media			
	A) R. Quintana B) R. rickettsii		gamushi		
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: In Leptospirosis, the incubation period ranges from 2 to 20 days 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 v A) Rhinovirus B) Vaccinia				
19.	Hantan virus A) Is a DNA virus C) Belong to Retroviridae family	B) Causes hemorrhagic fever with re D) Person to person transmission	nal involvement		
20	0. Hepatitis C virus resembles which of the following virus groups				

[MBBS 0524]

D) Flavi viruses

B) Herpes viruses

A) Picarno viruses

C) Hepadna viruses