Madhya Pradesh Medical Science University, Jabalpur

MBBS Second Professional Examination April-2024 www.FirstRanker.com Subject- Microbiology

Time: 3:00 Hours Paper- II (new scheme)

Maximum Marks: 100

Instructions:

- a) All auestions are compulsory
- b) Draw diagrams wherever necessary
- c) Answers of Questions and Sub-questions must be written strictly according to serial order of question paper.
- d) MCQ has to be answered in theory answer book
- e) Please write MCQ answer neatly and in serial order with black or blue pen in brackets; for example: 1. (a) 2. (c)
- f) MCQ has to be answered only once, any kind of repetition or cutting or erasing or whitener will be considered as malpractice, such answers will not be counted in marks and action will be taken according to UFM rules of university.
- g) Subjective answer should be answered in up to 30 words per marks. For example, if a question having 2 marks should answered in up to 60 marks.

Q1. Total MCQs: 10 10 x 1 = 10

1. Human acquire cysticer	cus cellulosae infections by a	all except:	
(a) Ingestion of	(b) Autoinfection	(c) Reverse peristalsis.	(d) Ingestion of
contaminated vegetables			contaminated pig's meat
2. Which of the following	parasites is transmitted by ca	at?	
(a) Balantidium coli	(b) Toxoplasma gondii	(c) Echinococcus granulosus	(d) Toxocara canis
3 Serotyning and serosub	typing of meningococci are k	pased on:	
(a) Outer membrane	(b) Endotoxin	(c) Capsular	(d) Transferrin binding
proteins	(b) Endotoxiii	polysaccharide	proteins
proteins		porysacenariae	proteins
4. Which of the following	parasites is transmitted by do	og?	
(a) Echinococcus	(b) Hymenolepis nana	(c) Taenia solium.	(d) Diphyllobothrium latum.
5. Which of the following s	site is most commonly affect	ed by C. diphtheriae:	
(a) Skin	(b) Conjunctiva	(c) Faucial	(d) Kidney
6 Botryomycosis is a myce	etoma-like disease caused by	<i>[</i> *	
(a) Nocardia	(b) Actinomyces	(c) Staphylococcus	(d) Streptococcus
(a) Nocardia	(b) Actinomyccs	(c) staphylococcus	(d) Streptococcus
7. Pathognomonic cells in	bacterial vaginosis are called	1:	
(a) Smudge cells	(b) Atypical cells	(c) Decoy cells	(d) Clue cells
	specimen from an animal wh for handling this specimen?	nich died of Anthrax. What is t	he recommended level of
(a) BSL-1	(b) BSL-2	(c) BSL-3	(d) BSL-4
			'
9. Reactive arthritis syndro	ome consists of all except:		
(a) Conjunctivitis	(b) Urethritis	(c) Polyarthritis	(d) Myocarditis
	·		
10. Co-cultivation method	is used for:		
(a) HBV	(b) HCV	(c) HSV	(d) HIV

Q2. Long Answer Questions

 $2 \times 20 = 40$

- a. An 8-year-old child was admitted to the hospital with chief complaints of high-grade fever, headache, vomiting, altered mental status and neck rigidity. CSF was sent for Biochemical analysis, direct microscopy and Culture & sensitivity testing.
 - I What is the probable clinical diagnosis
 - II What are the etiological agents, pathogenesis and clinical manifestations of this disease?
 - III Describe the laboratory diagnosis in detail
 - IV What are the treatment modalities according to the etiological agents
- b. A 25-year-old male was admitted in the hospital four days after Road Traffic Accident (RTA); on examination, crush injury right foot with soiled gauze contaminated with soil was observed. There was edema, crushed muscles and pain at the site. On palpation crepitus was felt.
 - I What is the clinical condition?
 - II Mention the etiological agent responsible for this condition?
 - III Describe the pathogenesis and clinical manifestations of this condition?
 - IV Describe in detail the laboratory diagnosis and treatment of this disease?

Q3. Brief Answer Questions

 $6 \times 05 = 30$

- a. Vaccine associated paralytic poliomyelitis (VAPP)
- b. What is congenital infection? List the various organism causing congenital infection? Write in detail about congenital syphilis.
- c. List the cutaneous parasitic infection. Write briefly on cutaneous lava migrans.
- d. A child aged 6 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 tonsillar fossa which started bleeding when touched. No history of immunization available. What is the clinical diagnosis? Write in detail laboratory diagnosis of this condition.
- e. Discuss in detail about MRSA (Methicillin Resistant Staphylococcus Aureus)
- f. Write the clinical feature and lab diagnosis of Plague.

Q4. Short Answer Questions

 $10 \times 2 = 20$

- a. Explain Weil-Felix Test and its application.
- b. Differences between Actinomyces and Nocardia
- RNA viruses causing viral exanthems
- d. Name two prion diseases along with their hosts
- e. Pneumococcal vaccine.
- f. Categories of Biomedical waste and types of containers used for their disposal.
- g. Spill management.
- h. Name diseases transmitted by tick
- i What is TORCH infection?
- j. Enlist the organism causing nongonococcal urethritis