REV-01 BMLT/23/28

BACHELOR OF MEDICAL LABORATORY **TECHNOLOGY** FOURTH SEMESTER . MICROBIOLOGY IV

BMLT - 404

[USE OMR SHEET FOR OBJECTIVE PART]

Duration: 3 hrs.

Time: 30 min.

Objective)

Choose the correct answer from the following:

d. Klebsiella

b. Staphylococcus

b. 108-1010 bacilli

b. Diabetes mellitus

d. Pseudomonas

b. Hemophilus

d. Salmonella

d. 1-10 bacilli

b. Stuart

d. MYPA

d. Typhoid

b. Vibrio

1. Most common organism causing UTI

a. E. coli

c. Streptococci

2. The infective dose of S. typhi is

a. 1 bacillus

c. 102 -105 bacilli

3. Selective media for Vibrio

a. TCBS

c. MacConkey agar

4. Widal test is carried out to test

a. Malaria

c. HIV/AIDS

5. Pyocyanin is formed by

a. Streptococcus

c. Proteus

6. Satellitism is seen in culture of

a. Klebsiella

c. Proteus

7. Which of following is the smallest virus?

a. Smallpox virus

c. Parvovirus

b. Reo virus

d. Adenovirus

Electron microscopy can be used for the laboratory diagnosis of

a. Rotavirus infection

b. Hepatitis A virus infection

c. Adenovirus infection

d. All the above

The symmetry of nucleo capsid for pox virus is

a. Icosahedral

b. Helical

c. Complex

d. None of the above

2023/06

Full Marks: 70

 $1 \times 20 = 20$

Marks: 20

10. Koplik's spots on the buccal a. Mumps c. Rubella	l mucosa is a characteristic feature of b. Measles d. Hepatitis D virus	
 In LPCB, the function of laction. It prevent fungus from doc. Preserve fungal structure 	drying b. Act as disinfectant	tructure
 Pseudohyphae seen in a. Candida albicans c. Sporothrix schenckii 	b. Histoplasma capsulat d. Both b & c	tum
 In Mycology Negrosin dye is a. Aspergillus fumigatus c. Candida albicans 	is use to detect b. Cryptococcus neoform d. Penicillum spp	nans
14. Which of the following dermaa. M. gypseumc. M. canis	b. M. audouinii d. None of the above	
 Which of the following fungue a. Aspergillus fumigatus c. Penicillum spp 	Thich of the following fungus present predominantly in the faece in. Aspergillus fumigatus b. Cryptococcus neofo d. M. canis	
 Cryptococcus neoformans differences. Growth at 37°c Production of brown color seed agar 	b. Urea hydrolysis onies on niger d. All of the above	eci by:
17. Which of the following infecta. Oral thrushc. Poronychia	ctions may occur by <i>Candida albicans</i> b. Vulvo vaginitis d. All of the above	
18. Barber's itch is the other nama. Tinea capitisc. Tinea barbae	me b. Tinea corporis d. Tinea pedis	
19. In TSI test what does K/A,H ₂ S Only Glucose is fermente produce		mented
c. All sugar are fermented, l	H ₂ S produce d. Only Glucose is fer produce	mented, gas
20. Tryptophan is a. Sugar c. Lipid	b. Amino acidd. Enzyme	

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USTM/COE/R-01

Descriptive

Time: 2 hrs. 30 min. Marks: 50 [Answer question no.1 & any four (4) from the rest] 8 a. Write morphology, pathogenesis and laboratory diagnosis of Dermatophytes. 2 b. Give two example of dimorphic fungus. 7 a. Explain the morphology, cultural characteristics, pathogenesis and laboratory diagnosis of Salmonella. b. Write a short note on laboratory diagnosis of Proteus spp 3 7 a. Explain the morphology, cultural characteristics, pathogenesis and laboratory diagnosis of Vibrio cholera. b. Explain the laboratory diagnosis of Hemophilus spp. 3 6 a. Explain the morphology, cultural characteristics and laboratory diagnosis of E. coli. b. Explain the various methods of cultivation of virus. 5. a. Explain the lytic and lysogenic cycle of bacteriophages. b. Explain the morphology and laboratory diagnosis of polio virus. 2 6. a. How many types of hepatitis virus are there? Write their name. b. Explain the morphology, antigenicity, pathogenicity and 8 laboratory diagnosis of Hepatitis B virus. a. Write short notes on Candida albicans. 6 b. Discuss about habitat and pathogenesis of Cryptococcus neoformans.

8. Classify the fungal diseases. Name the four classes of fungus based on morphology.

7+3=10

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