Question Paper Exam Date & Time: 02-May-2023 (10:13 AM - 11:30 AM)



MANIPAL ACADEMY OF HIGHER EDUCATION THIRD SEMESTER B.Sc. NURSING DEGREE EXAMINATION - MAY 2023

SUBJECT: MICR 201 - APPLIED MICROBIOLOGY & INFECTION CONTROL AND SAFETY

Marks: 62 **Duration: 167 mins.**

SECTION A - APPLIED MICROBIOLOGY (31 MARKS)

Ans	wer all the questions.	
1.	A 35-year old manual labourer presented to OPD with productive cough since 3 weeks and evening rise of temperature. Sputum was blood tinged. Special staining of the sputum sample revealed acid fast bacilli.	
1A) 1B) 1C)	List the general properties of the causative agent. Explain the pathogenesis of this condition. Describe the sample collection method and laboratory diagnosis of this infection.	(2) (3) (5)
2. 2A) 2B) 2C)	Short note: Explain the different types of culture methods. With the help of a diagram explain the structure of a virus. Classify immunity with examples.	(5) (5) (5)
3.	Short answers:	
3B)	List TWO contributions of Robert Koch. State the various modes of transmission of HIV infection. Classify hypersensitivity reactions.	(2) (2) (2)
Ans	SECTION B -INFECTION CONTROL AND SAFETY (31 MARKS) wer all the questions.	
4.	Essay:	
4B)	Describe the types of restraining the patient. Describe the purposes of restraining the patient. Explain the nurses role in restraining the patient.	(3) (2) (5)
5. S ł	nort note:	
5A)	Describe the standard precautions to be followed to prevent transmission of infection in hospital.	the (5)
	List any SIX disinfectants and describe its uses in health care setting. Explain the types of hospital waste with relevant example for each type.	(5) (5)
6. S ł	nort answers:	
	Describe the measures to prevent surgical site infection in the hospital. Explain any two strategies to prevent Catheter Associated Urinary Tract Infections (CAUTI). List the mechanisms of antibiotic resistance in bactera.	(2) (2) (2)