D 91153	(Pages: 2)	Name
		Reg. No

FOURTH YEAR B.Sc. DEGREE (PARAMEDICAL COURSES) EXAMINATION NOVEMBER 2020

Medical Microbiology

Paper XIII—CLINICAL MICROBIOLOGY AND LABORATORY MANAGEMENT

(2012 Admissions)

Time: Three Hours

Maximum: 100 Marks

Draw diagrams wherever necessary.

- 1. Answer any *two* of the following:
 - 1 Describe all the staining methods used in the identification of bacteria.
 - 2. Describe biofilms, its formation and pathogenesis of infection.
 - 3. Enumerate the bacteria causing primary meningitis and describe the laboratory diagnosis of purulent meningitis.

 $(2 \times 15 = 30 \text{ marks})$

- 2. Answer any four of the following:
 - 1 Explain human microbiome.
 - 2 Describe the principle and application of fluorescent microscope. Add a note on recent development in automation in microscopy.
 - 3 Explain quality control in Microbiology.
 - 4 Genetic mechanism of drug resistance in bacteria.
 - 5 Ventilator associated pneumonia.
 - 6 Vancomycine.

 $(4 \times 7 = 28 \text{ marks})$

- 3. Answer briefly:
 - 1 Bio safety in Laboratory.
 - 2 Enlist the different gaseous methods of sterilization. Add note on ethylene oxide method.
 - 3 Role of computers in microbiology laboratory.

- 4 Anaerobic culture methods.
- 5 Preservation of cultures.
- 6 Principle, procedure, types and use of autoclave.

 $(6 \times 4 = 24 \text{ marks})$

4. Write short notes on:

- 1 Transposons.
- 2 Radioimmunoassay.
- 3 E-test.
- 4 Oxidation fermentation test.
- 5 Automation in blood culture.
- 6 Semi quantitative culture methods in urine.
- 7 In use test.
- 8 Laboratory accreditation.
- 9 pH in microbiology.

 $(9 \times 2 = 18 \text{ marks})$

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FOURTH YEAR B.Sc. DEGREE (PARAMEDICAL COURSES) EXAMINATION NOVEMBER 2020					
	Medical Microb	iology			
Paper XII—MICROBIAL PATHOLOGY AND CYTOLOGY					
	(2012 Admissi	ons)			
Time : Three	e Hours	Ma	aximum: 100 Marks		
Draw diagrams wherever necessary.					
I. Answer any two of the following. Each question carries 15 marks:					
1	Write a note the mechanisms of bacterial part of host defenses by bacterial pathogens.	thogenesis. Discuss the	mechanisms of evasion		
2	Discuss the pathogenesis of gas gangren changes associated with gas gangrene.	e. Write on histopatho	logical and cytological		
3	3 Discuss the pathogenesis and histopathological changes in Helminthic infections.				
			$(2 \times 15 = 30 \text{ marks})$		
II. Answer any four of the following. Each question carries 7 marks:					
4	Write a note on Rhinosporidiosis.				
5	Chronic inflammation.				
6	General features of Chlamydiae.				
7	Pathogenesis of hepatitis B.				

- 8 Bacterial meningitis.
- 9 Candidiasis.

 $(4 \times 7 = 28 \text{ marks})$

III. Answer briefly on the following. Each question carries 4 marks:

- 10 Transposons.
- 11 Primary pyodermas.
- 12 Diphtheria toxin.

- 13 Leishmaniasis.
- 14 Histopathological changes in rabies.
- 15 Pathogenesis of filariasis.

 $(6 \times 4 = 24 \text{ marks})$

- IV. Write short notes on the following. Each question carries 2 marks:
 - 16 Infant botulism.
 - 17 Necrosis.
 - 18 Oncogenic viruses.
 - 19 Lepromatous leprosy.
 - 20 Black water fever.
 - 21 Cholera red reaction
 - 22 Thermal dimorphism in fungi.
 - 23 Evasion of immune mechanisms by Cryptococcus neoformans.
 - 24 Koplik spots.

 $(9 \times 2 = 18 \text{ marks})$

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FOURTH YEAR B.Sc. (PARAMEDICAL COURSES) DEGREE EXAMINATION APRIL 2021

Medical Microbiology

Paper XIII—CLINICAL MICROBIOLOGY AND LABORATORY MANAGEMENT

(2012 Syllabus)

Time: Three Hours Maximum: 100 Marks

Draw diagrams wherever necessary.

- I. Answer any two of the following. Each question carries 15 marks:
 - 1 Discuss the fundamental principles of specimen collection to ensure appropriate specimen management. Write on preservation, storage, and transportation of specimens.
 - 2 Write a note on air microflora. Discuss the methods for air sampling for microbiological analysis.
 - 3 Describe the sterilization indicators used in clinical microbiology laboratories. Discuss the tests for analysis of efficiency of disinfectants.

 $(2 \times 15 = 30 \text{ marks})$

- II. Answer any four of the following. Each question carries 7 marks:
 - 4 Biological safety cabinets.
 - 5 Nosocomial infections.
 - 6 Nucleic acid hybridization techniques.
 - 7 Activities affecting outcome of laboratory tests.
 - 8 Types of documentation in clinical laboratories.
 - 9 Antimicrobial susceptibility testing.

 $(4 \times 7 = 28 \text{ marks})$

- III. Answer briefly on the following. Each question carries 4 marks:
 - 10 Merits and demerits of normal flora.
 - 11 Food poisoning.
 - 12 Sterility tests.
 - 13 Waste management in clinical laboratories.
 - 14 Quality control of media.
 - 15 Control sera in serology.

 $(6 \times 4 = 24 \text{ marks})$

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- 16 Convalescent carriers.

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FOURTH YEAR B.Sc. (PARAMEDICAL COURSES) EXAMINATION APRIL 2021

Medical Microbiology

Paper XII—MICROBIAL PATHOLOGY AND CYTOLOGY

(2012 Syllabus)

Time: Three Hours

Maximum: 100 Marks

Draw diagrams wherever necessary.

- I. Answer any *two* of the following. Each question carries 15 marks:
 - 1 Discuss host defenses preventing infections. Describe the pathogenesis of viral infections.
 - 2 Discuss the etiology of tuberculosis. Describe the pathogenesis and histopathological features associated with tuberculosis.
 - 3 Discuss the etiology of Filariasis. Describe the pathogenesis and cytological features of Filariasis.

 $(2 \times 15 = 30 \text{ marks})$

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- II. Answer any four of the following. Each question carries 7 marks.
 - 4 Discuss the characteristics of Mycoplasma.
 - 5 Write a note on suppurative infections.
 - 6 Describe pathogenesis of diphtheria.
 - 7 What is candidiasis? Describe etiology and pathogenesis candidiasis.
 - 8 Write a note on hepatitis viruses.
 - 9 Discuss the characteristics and cytological changes associated with helminthic infections.

 $(4 \times 7 = 28 \text{ marks})$

- III. Answer briefly on the following. Each question carries 4 marks.
 - 10 General characteristics of viruses.
 - 11 Modes of transmission of infectious diseases.
 - 12 Shigellosis.
 - 13 Skin and soft tissue infections caused by Staphylococci.
 - 14 Plasmids.
 - 15 Amoebic dysentery.

 $(6 \times 4 = 24 \text{ marks})$

- IV. Write short notes on the following. Each question carries 2 marks.
 - 16 DPT vaccine.
 - Cytopathic effects. 17
 - Mechanism of action of cholera toxin. 18
 - Negri bodies. 19
 - 20 Lepromin test.
 - Chronic inflammation. 21
 - 22 Endemic infection.
 - Encephalitis. 23
- CHINK LIBRARY UNIVERSITY CHINK 24 Granuloma.

 $(9 \times 2 = 18 \text{ marks})$