

**PARUL UNIVERSITY**  
**PARUL INSTITUTE OF APPLIED SCIENCES**  
**MID SEMESTER INTERNAL EXAMINATION, MARCH 2020**  
**M. Sc. Semester II**  
**Subject: Microbiology**

**Paper Code:11201153**

**Title of the paper: Medical Microbiology**

**Date: /03 /2020**

**Time:**

**Maximum Marks: 40**

**Instructions:**

1. All questions are compulsory and options are given in first and second question only.
2. Numbers to the right of question indicate the marks of respective question.

<b>Q. 1</b>	Attempt any one question of the following. (i) Discuss the classification of Antibiotics. (ii) Write short note on human microbiome.	<b>(08)</b>
<b>Q. 2</b>	Attempt any three questions of the following. (i) Draw a flow chart summarizing the major component of the host defense. (ii) Discuss the Virulence factors . (iii) What is Horizontal Gene transfer?. (iv) Discuss the mechanism of phagocytosis. (v) Discuss about probiotic.	<b>(12)</b>
<b>Q. 3</b>	Do as directed. Attempt all five questions. (i) Define Antibiotic. (ii) Give example of prebiotic(any2). (iii) Name any two broad spectrum antibiotic . (iv) What is pathogenicity island? (v) Name any two normal flora of human body, which are opportunistic pathogen..	<b>(05)</b>
<b>Q. 4</b>	Write correct option in your answer sheet for following 15 multiple choice questions.	<b>(15)</b>

<b>MCQ 1</b>	Surface protection is classified as			
	(A)	Second line defense	(B)	Innate nonspecific
	(C)	Acquired specific	(D)	Third line defense
<b>MCQ 2</b>	Nonspecific chemical defenses of the human host include			
	(A)	Myeloperoxidase	(B)	Lysozyme
	(C)	Cytokines	(D)	Antibodies.
<b>MCQ 3</b>	Which of the following is NOT correct regarding host defenses?			
	(A)	First line of defense blocks portals of entry.	(B)	Second line of defense include inflammation and phagocytosis
	(C)	Third line of defense is lymphocyte-dependent and specific.	(D)	Fourth line of defense provides long-term immunity.
<b>MCQ 4</b>	Complement system consists of			
	(A)	26 blood cells	(B)	26 blood protein
	(C)	26 blood antigen	(D)	all of the above

MCQ 5	<b>The function of Interferons.</b>			
	(A)	<b>Activates macrophages</b>	(B)	<b>Inhibits tumor cell growth.</b>
	(C)	Both of the above.	(D)	None
MCQ 6	Identify the specific defense from the list that follows			
	(A)	Granulocytes	(B)	T-lymphocytes
	(C)	Macrophages	(D)	Dendritic cells
MCQ 7	Inflammation is characterized by redness, warmth, swelling, and pain. Redness matches the Latin term			
	(A)	Calor.	(B)	Tumor.
	(C)	Dolor.	(D)	Rubor.
MCQ 8	Fever			
	(A)	Is a type of specific immunity.	(B)	Is caused only by endogenous pyrogens
	(C)	Increases the rapidity of the host immune responses.	(D)	Increases the viability of many microbial invaders.
MCQ 9	Complement is found in the			
	(A)	WBC	(B)	RBC
	(C)	Platelets.	(D)	plasma
MCQ 10	Interferon synthesis			
	(A)	Protects the synthesizing cell from viral attack.	(B)	Signals cells nearby to synthesize antiviral proteins
	(C)	Blocks viral attachment to nearby cells	(D)	Degrades viral nucleic acids.
MCQ 11	The greatest number of microflora lives in the...			
	(A)	Large Intestine	(B)	Small Intestine
	(C)	Stomach	(D)	Pancreas
MCQ 12	Probiotics can help adults with the following			
	(A)	Irritable Bowel Syndrome	(B)	Improve stress response
	(C)	All of the above	(D)	None of the above
MCQ 13	Which of the following refers to the addition of microorganisms to the diet in order to provide health benefits beyond basic nutritive value?			
	(A)	Antibiotics	(B)	Synbiotics
	(C)	Prebiotics	(D)	Probiotics
MCQ 14	Which is not a component of second line of defense?			
	(A)	Interferons	(B)	Fagocytosis
	(C)	Complement	(D)	None of the above
MCQ 15	<b>Components of non specific immunity are/is;</b>			
	(A)	<b>Cytokines</b>	(B)	<b>Complement</b>
	(C)	Both of the above	(D)	none