UNIVERSITY OF THE PUNJAB

Seventh Semester – 2019
Examination: B.S. 4 Years Program

`\	Roll	No.	in	Words.	 	

Roll No. in Fig.

PAPER: General Microbiology

Course Code: ZOOL-415 Part-I (Compulsory)

MAX. TIME: 15 Min. MAX. MARKS: 10

Signature of Supdt.:

Attempt this Paper on this Question Sheet only.

Please encircle the correct option. Division of marks is given in front of each question.

This Paper will be collected back after expiry of time limit mentioned above.

Q.1. Encircle the right answer, cutting and overwriting is not allowed. (1x10=10)

i	Bacteria require low level of oxygen for growth
	and cannot tolerate atmospheric oxygen level
	A) Aerobic
	B) Anaerobic
	C) Facultative
	D) Microaerophilic
	E) None of these
ii.	Numerical Taxonomy depends on
	A) % similarity index of strains to be compared
	B) Intuitive method of classifying bacteria
	C) Genetic relatedness
	D) Predictability of a classification scheme
	E) None of these
iii.	The descendants of a single isolation in pure culture are called as
	A) Species
	B) Type species
	C) strain
	D) None of these
iv.	Endospores are heat resistant because it contains:
	A) Calcium-dipicolinic acid
	B) Poly-β-hydroxybutyrate
	C) Polyisoprenoid
	D) Heteropolysaccharides
	E) None of these
V.	Which microorganism cannot be grown on artificial media?
	A) Protozoa
	B) Yeast
	C) Algae
	D) Virus
	E) None of these
vi.	Viable bacterial cells can be counted by:
	A) Turbidimetric method
	B) Direct microscopic count
	C) Membrane filter count
	D) Electronic enumeration of cells
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vii.	Application of ionizing radiations to sterilize biological materials is
	A) Incineration
	B) Cold sterilization
	C) Fractional sterilization
	D) Desiccation
	E) None of these
viii.	Pellicle is present in:
	A) Bacteriophage
	B) Protozoa
	C) Algae
	D) Fungi
	E) None of these
ix.	was the first person to recognize significance of
	bacterial and other microbes in disease:
	A) Robert Hooke
	B) Roger Bacon
	C) Leeuwenhoek
	D) Anton Von Plenciz
	E) None of these
х.	During this phase, the microbial cells divide steadily at a constant rate and log of the number of cells plotted against time results in a straight line
	A) Lag phase
	B) Exponential phase
	C) Stationary Phase
	D) None of these



Q.4

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d. Procedure for isolating pure culture.

Discuss comprehensively about colony characteristics with the help of

PAPER: General Microbiology Course Code: ZOOL-415 Part - II

labeled diagrams.

Roll No.

MAX. TIME: 2 Hrs. 45 Min.

10

MAX. MARKS: 50

ATTEMPT THIS (SUBJECTIVE) ON THE SEPARATE ANSWER SHEET PROVIDED 0.2 Give short answer of the following 2x10=20Sulphur dependent archeobacteria ii. Distinctive characters of algae iii. Type strain iv. Genetic relatedness and taxonomy Distinguish between lithotrophs and organotrophs V. vi. Oxygen toxicity for microbes Nosocomial infections vii. Membrane filter count viii. Chemical composition of bacterial cell wall. ix. Animalcules Write brief note on the following $4 \times 5 = 20$ a. Principal gases that affect bacterial growth. b. Preservation by overlaying cultures with mineral oil c. Arrangements of bacterial flagella.