C86J

SARDAR PATEL UNIVERSITY

B Sc III Semester Examination ปักานจะษา 2021 บริธ3 CMIC02 Fundamentals of Microbiology

Date:5-12021 **म्प्***es*day Time 2:00 PM to 4:00 PM

Total Marks: 70

Q:1		Multiple choice questions:	C105
		Answer both code and word compulsorily.	_
	1	According to Whittaker's 5 kingdom concept, cyanobacteria are	
		included in	
		a] Plante b] Monera c] Animallia d] Protista	
	2	Which one of the following is the lowest taxonomic rank?	
		a] Species b] Kingdom c] Domain d] Genus	
	3	The latest classification in biology is due to contribution of	
		a] Whittaker b] Haeckel c] Bergey d] Carl Woese	n
	4	The organisms use organic compound as an electron donor are know	H
		asa] chemolithotrophs b] lithotrophs c] autotrophs d] heterotrophs	
	_	The ideal time for doubling of <i>E coli</i> isminutes.	
	5		
		a] 15 b] 30 c] 20 d] 60	ı
	6	Exhaustion of nutrients and production of toxic products during growt	n
		is observed in phase.	
		a]log b] Stationary c] Lag d] decline	
	7	The most common method of reproduction of bacteria is	
		A]Binary fission b] Budding c] Fragmentation d] Plasmogamy	
	8	viruses cultivated through chick embrayo technique.	
		a) Animal b) plant c bacteriophage d) none	
	9	culture is most preferred for viral vaccine production.	
	-	a)primary b) secondary c) both d) none	
	10	has complex symmetry.	
		a) Animal b) plant c) bacteriophage d) none	
Q:2		Do as directed	
Q(12		Fill in the blanks.	[08]
	1	In Latin, bacilli mean	
	2	The organisms tolerate high sugar concentrations is called	
	3	Micromanipulator is used tocells.	
	4	coined the term bacteriophage.	
		State true or false	
	1	Bergey's manual is an authentic source to study bacterial classificatio	n.
	2	The important ingredient of chocolate agar is chocolate.	
	3	Bacterial culture is continuously added in continuous culture.	
	4	Polio virus has helical symmetry.	

Q:3		Short Questions: Attempt any TEN.	720
	1	Enlist major classes of Whittaker's classification.	U /
	2	What is numerical taxonomy?	
	3	Define: Clone and nomenclature.	
	4	How pH affects the bacterial growth?	
	5	Differentiate autotrophs V/S heterotrophs.	
	6	What are halophiles; what is there habitat?	
	7	What is synchronous growth?	
	8	Define ; Generation time and Turbidostat	
	9	Draw labeled typical bacterial growth curve.	
	10	"Viruses are connecting link between living and non-living"Comment.	
	11	Write in short about TMV.	
	12	Draw labelled diagram of embryonated egg.	٠ بـ
Q:4		Long Question: Attempt ANY FOUR	[32]
	1	Give detail account on important characteristics used for classifying bacteria.	_
	2	Write short notes on	
		a) nucleic acid hybridization.	
		b) Fatty acid profile	
	3	Write in detail about various types of bacteriological media.	
	4	Describe nutritional requirements of bacteria.	
	5	Narrate different methods used to preserve the pure cultures.	
	6	Enlist and describe methods of isolating pure culture.	
	7	Describe lytic cycle.	
	8	Explain lysogenic cycle.	