Seat No.:	
logy   World	
[Max. Marks:	70
ssary.	
nents that disapproved Abiogenesis.	.14
he development of vaccine.	7
Microbiology.	7
	4
in microbiology ?	
Joseph Lister.	
sky in Microbiology.	
discovery of penicillin antibiotic?	
Algae.	14

## **DA-216**

December-2019

B.Sc., Sem.-I

CC-3 (101) : Microbiol Introduction to Microbial

Time: 2:30 Ho	ours]	ax. Marks: 70
Instructions :	(1) Attempt all questions.	
	(2) Write correct answer numbers.	
	(3) Draw neat diagrams, wherever necessary.	
1. (A) Exp	olain Biogenesis and describe various experiments that disapproved	Abiogenesis.14
	OR	
(i)	Describe contribution of Louis Pasteur in the development of vac	ccine. 7
(ii)	Describe the development in Agricultural Microbiology.	7
(B) Ans	swer in one or two lines : (any four out of six)	4
(a)	Who first suggested the use of cotton plug in microbiology?	
(b)	Name the antiseptic that was first used by Joseph Lister.	
(c)	Give any one contribution of S. Winogradsky in Microbiology.	
(b)	Give contribution of Dmitri Iwanowsky.	
<b>(e)</b>	Who were awarded by Nobel Prize for the discovery of penicilli	n antibiotic?
49)	What are "magic bullets"?	
2. (A) Desc	cribe general characteristics of Bacteria and Algae.	14
	OR	
<del>(i)</del>	Write a note on Importance of Fungi.	7
(ii)	Write a note on natural habitats of microorganisms.	7
(B) Ansv	wer in one or two lines: (any four out of six)	4
(a)	Define prokaryotes.	
t(b)	What are prions?	
(c)	What are extremophiles?	
(d)	What is coenocytic hypha?	
(e)	Give two examples of protozoa which are pathogenic to human	1.
· (f)	What is the difference between virus and virusoid?	

3.	(A) Enli	ist and explain various methods for selective isolation of bacteria.	14
		OR	
	4i)	Write down applications of r-DNA technology.	7
	(ii)	Explain in brief industrial microbiology.	7
	(B) Ans	wer in one or two lines: (any three out of five)	3
	(a)	What is Lyophilization?	
	-85	Give full form of MTCC.	
	(c)	Define Axenic culture.	
	(d)	What is phycology?	
	(c)	What is the function of Restriction Endonuclease enzyme?	
4.	(A) Expl	lain in brief Bright Field and Dark Field microscopy.	14
		OR	
	<del>(4)</del>	Explain with examples Acidic and Basic dyes.	7
	(ii)	Explain Gram staining method with importance of each steps.	7
	(B) Ansv	ver in one or two lines: (any three out of five)	3
	(a)	What is "Fluorescence"?	
	b)	Give scientific name of any one gram negative bacterium.	
	(c)	Give one example of leuco compound.	
	(4)	What is source of illumination in Electron Microscopy?	
	(c)	Who first described acid fast staining?	