			WIZ-103			
			December-2016			
			B.Sc., SemI			
		CC-3	-101 : Microbi	ology		
		(Introduc	tion to Microb	ial World)		1
Time: 3 Hours]					[Max. Marks:	70
(a) (b) (c)	(2) (3) (4) er the for Describer Write and What are	Draw neat and allowing (any two any two experiments on the discover Koch's postulate	e compulsory. It indicates marks. clean diagrams wh : nents that supporte very and developr	nerever necessary ed the theory of b	piogenesis.	14
(d)	aetiolog Explain	y of Anthrax. the development	ts in pure culture 1	techniques.		14
2. Answ (a) (b) (c) (d)	Discuss Compa Describ	following (any two states the natural and the various feature be the distinctive a note on algae.	hostile habitats of es of prokaryotes	and eukaryotes	in detail.	14
3. Ans (a) (b) (c) (d)	Discus	following (any to so the applied are in the role of mines the pour plate various methodical).	croorganisms in method for isolates for the preserv	C	rowth. Iture. ulture. Discuss lyo	
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			y.*			

Seat No.;

4. Answer the following (any two):

- (a) Write a note on the principle, working and significance of phase contract
- (b) How does an electron microscope differ from light microscope?
- (c) Enlist different types of staining techniques. Discuss any one in detail.
- (d) Describe the applications of dyes and stains in microbiology.

Answer in one word/one or two lines.

- What is tyndalization?
- (2) Who discovered the causative agent of mosaic disease of tobacco?
- (3) Which kind of flask was used by Louis Pasteur in disproving abiogenesis?
- (4) Who is known as the father of chemotherapy?
- (5) Write any two significances of protozoa.
- (6) What are viroids?
- (7) What do you mean by a "Pshychrophile"?
- (8) Write down any two applications of rDNA technique.
- (9) What is mycology?
- (10) Write down the full form of ATCC.
- (11) Name any two chemical fixatives.
- (12) Write the formula of Numerical Aperture (NA).
- (13) What are leuco dyes?
- (14) Give any two examples of acidic stain.