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6

UWO-45303

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UWO-45303

	(d)	Rickettsia.		1		(c)	Phototrophs and chemotrophs. OR	4
	(c)	Actinomycetes	•			(b)	Selective media with examples.	4
	(b)	Mycoplasma		ļ		(a)	Replica plating.	4
	(a)	E.coli			6.	Ехр	lain briefly:	
(iii)	Fungi like spores are produced in:					(f)	Fluid mosaic model of cytoplasmic membra	ine. 4
	(d)	Simple microscope.		_	-	(e)	Structure of Flagellum of Gram negative bacte	eria. 4
	(c)	Dark field microscope				(u)	Draw well labelled diagrams of typical bacter	nai cell.
	(b)	Electron microscope		4		(d)	OR Draw well labelled diagrams of the in-11	
(ii)	(a)					(c)	Prokaryotic and Eukaryotic ribosomes.	4
	Structure of viruses can be observed by:					(b)	Prokaryotic and Eukaryotic cells.	4
	(d)	Meiosis.						4
	(c)	Fragmentation				(a)	Cell wall of gram positive and gram negative	bacteria.
	(a) (b)	Binary fission Mitosis			5.	Dif	ferentiate between:	
(i)	E-coli reproduce asexually by:						the classes of each as per Bergey's ma systematic bacteriology.	nual of 4
(b) -Ch	oose	correct alternative :	2			(f)	Enlist four divisions of Kingdom Prokaryo	tae with

(iv) Nutrient agar is an example of:

		(-X	Sthatia madia	-
		(a)	Synthetic media	
	- P	(b)	Non-synthetic media	44
		(c)	Differential media	A .
		(d)	Selective media.	
	(c)	Ans	swer in ONE sentence:	4
. *		(i)	What do you mean by I	Endospore ?
	•	(ii)	What are autotrophs?	
¥		(iii)	What is the function of	ribosomes?
	5 1 1 10	(iv)	What is generation time	?
2.	Describ	e the	experiments of Louis Paste	eur, John Tyndal
	and Sch	ulze i	for solving the controversy	over spontaneous
	generati	on.		12
			OR	
	Describ	e ind	ustrial microbiology, medi	cal microbiology
	and env	ironn	nental microbiology.	12
UW	O-45303		3	(Contd.

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-3(a)	Describe the principle and method of acid fast sta	aining 4
(b)	Enlist the parts of compound microscope and the function of each part.	i state 4
(c)	What is resolving power? How is it relat numerical appearture?	ted to
,	OR	
(d)	Differentiate between simple staining and differ staining.	rentia 4
(e)	Describe briefly endospore staining with its prin	ciple 4
(f)	Define the terms magnification, focal length, num aperature and microscope.	nerical 4
4. Wri	te in brief about :	
(a)	Numerical taxonomy.	4
(b)	Mycoplasma.	4
(c)	Gracilicutes.	- 4
	OR	
(d)	Define the terms Taxonomy, Classification, Taxor ranks and Nomenclature.	nomic 4
(e)	Briefly describe general characteristics of viru	ises.
UWO-453	303 4 (Co	ontd.)