V.P. &R.P.T.P. Science College Microbiology; US05CMIC05 Microbial Diversity and Ecology 07.10.17; Saturday 11.00 a.m.-12.30 p.m.

Total Marks:25

(i)All questions are compulsory.		
(ii) Marks are indicated on the right hand side.		
Q.1. Attempt the following multiple choice questions. (0		(03)
1. Fungi with unicellular thallus which produces asexual or sexual cells		
are known as		
(a) eucarpic fungi	(b) holocarpic fungi	
(c) aseptate fungi	(d) septate fungi	
2. HIV infects lymphocytes bearing receptors on their surface.		
(a) DC ₄	(b) C ₄ D ₄	8.T.P.
(c) CD ₄	(d) none of the above.	3
3. Enterococcus faecalis and Escherichia coli together are able to		
convert arginine to	//	#
(a) ornithine	(b) agmatine	VEN
(c) lactic acid	(d) none of the above	- Andrews
Q.2. Attempt any two out of the f	following briefly.	(04)
1. Give two functions of hausto	orium.	
2. Give two examples of viroid	S.	
3. What does bioluminescence	by Photobacterium require?	
Q.3. Describe sexual reproduction in fungi.		(06)
OR		
Q.3.Explain the medical and agricultural importance of fungi.		(06)
Q.4. Explain the one step growth experiment.		(06)
OR		
Q.4. Draw a neat and labelled diagram of HIV. Explain its characteristics.		(06)
Q.5. Enlist negative interactions amongst microorganisms.		
Explain any one in detail.		(06)
OR		
Q.5. Define mutualism and explai	n it at length citing one example.	(06)