



V.P. & R.P.T.P. SCIENCE COLLEGE
Vallabh Vidyanagar
B.Sc.;Semester V
Internal Examination
Microbiology
US05CMIC05(Microbial diversity and Ecology)

Wednesday: 05.10.16
11.00a.m. -12.30 p.m

Total Marks:25

- Q.1. Attempt the following multiple choice questions. (03)
1. Which of the following is diploid?
(a) Chlamydospore. (b) Aplanospore.
(c) Zoospore. (d) Zygosporangium.
 2. HBV belongs to
(a) Picornavirus family (b) Hepadnaviridae
(c) Flaviviridae (d) None of the above
 3. Syphilis is caused by
(a) *Borrelia recurrentis* (b) *Treponema pertenuis*
(c) *Treponema pallidum* (d) *Treponema carateum*
- Q.2. Attempt any two out of the following briefly. (04)
- (1) Enlist the distinguishing features of spirochetes.
 - (2) What is the difference between 'holocarpic' and 'eucarpic' fungi?
 - (3) Draw a labeled diagram of pox virus.
- Q.3. Explain the importance of fungi in the industrial field. (06)
- OR**
- Q.3. Describe the mycelial modifications of fungi. (06)
- Q.4. Draw a labeled diagram of HIV and describe its characteristics. (06)
- OR**
- Q.4. Explain the one step growth experiment. (06)
- Q.5. (a) What are the major differences between Rickettsia and Chlamydia? (04)
(b) Define thylakoids. (02)
- OR**
- Q.5. Write a note on sulfur metabolizing bacteria. (06)
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