

V.P. & R.P.T.P. SCIENCE COLLEGE
B.Sc. ,INTERNAL EXAMINATION
MICROBIOLOGY ,US05CMIC05
MICROBIAL DIVERSITY AND ECOLOGY

DATE 05.10.13

DAY Saturday

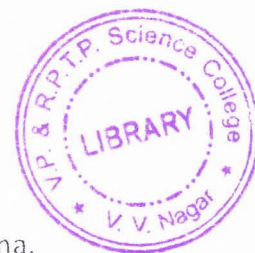
TOTAL MARKS:30

TIME:3.30-5.00 P.M.

N.B. (i) All questions are compulsory. (ii) Marks are indicated on the right hand side.

Q.1. Attempt the following multiple choice questions. (06)

1. Unicellular true fungi in which the complete cell is converted to reproductive structure are called
(a) eucarpic. (b) holocarpic. (c) autotrophic (d) none of them .
 2. In which example of fungi out of the following are pseudosclerotia formed?
(a) *Mucor mucedo* (b) *Polyporus basilaroides* (c) *Aspergillus niger* (d) None of them.
 3. HIV belongs to the family
(a) Togaviridae (b) Retroviridae (c) Flaviviridae (d) None of them.
 4. The causative agent of smallpox is
(a) Vaccinia virus (b) Adenovirus (c) Variola virus (d) Mobillivirus.
 5. Relapsing fever is caused by
(a) *Treponema pallidum* (b) *Treponema carateum* (c) *Treponema pertenue*
(d) *Borrelia recurrentis*
 6. Thermoplasmas resemble mycoplasmas in that they
(a) grow at very high temperature (b) prefer very acidic environments (c) lack a cell wall
(d) are pathogenic for animals and plants.
- Q.2. Attempt the following questions briefly. (Any three) (06)
1. Define (i) monoecious fungi (ii) axoneme.
 2. What are rhizomorphs?
 3. Define (i) Burst size (ii) Eclipse period.
 4. Why is antiserum added during one step growth experiment?
 5. Define the following terms : (a) heterocyst (b) akinete
 6. Give the outstanding feature of (i) *Sporichthya* (ii) *Actinosynnema*.



Q.3. Describe nutrition in fungi. (06)

OR

Q.3. Write a note on the importance of fungi in the field of industry. (06)

Q.4. Explain Doermann's premature lysis experiment. (06)

OR

Q.4. Describe one step growth experiment. (06)

Q.5. Write a note on Spirochetes. (06)

OR

Q.5. Write a note on Actinomycetes. (06)