

B.Sc. MICROBIOLOGY
(New Syllabus 2018-2019)

FIRST YEAR

PAPER III – MYCOLOGY AND PARASITOLOGY

Q.P. Code: 802903

Time: Three Hours

Maximum: 100 Marks

Answer all questions

I. Elaborate on:

(3 x 10 = 30)

1. List the species of malarial parasite, write in detail the life cycle and laboratory diagnosis of *Plasmodium falciparum*. Mention few complications.
2. Enumerate Dimorphic fungi. Discuss in detail the pathogenesis and laboratory diagnosis of infection caused by *Histoplasma capsulatum*.
3. What are the species of the genus *Echinococcus* causing diseases in Human? Describe the life cycle and laboratory diagnosis of infection caused by *Echinococcus granulosus*.

II. Write notes on:

(8 x 5 = 40)

1. NIH Swab.
2. Toxoplasmosis.
3. *Giardia lamblia*.
4. Eggs of Ascariasis.
5. *Candida albicans*.
6. Mucormycosis.
7. Anti fungal drug susceptibility testing methods.
8. Stool concentration procedure for ova and cysts.

III. Short answers on:

(10 x 3 = 30)

1. Define Intermediate Host.
2. Name three pathogenic free living amoeba.
3. Define Occult filariasis.
4. Name a parasite transmitted by sexual contact.
5. Name three parasites causing infections in central nervous system.
6. Rhinosporidiosis.
7. *Cryptococcus neoformans*.
8. Define dermatomycosis.
9. Fungal spores.
10. Name the mycotoxin produced by *Aspergillus flavus*.
