

D.M. – INFECTIOUS DISEASES

**Paper IV – RECENT ADVANCES INCLUDING TRANSPLANT
INFECTIOUS DISEASES**

Q.P. Code: 161494

Time: Three Hours

Maximum: 100 Marks

I. Elaborate on:

(2 x 15 = 30)

1. Mr. B is a 24-year old male who underwent matched, unrelated allogeneic hematopoietic stem cell transplantation 12 days ago. He has been having fever for the last 7 days despite being on a combination of meropenem and amikacin. The absolute neutrophil count is <100 cells/mm³. Blood cultures are sterile. There were two episodes of febrile neutropenia (FUO) during the induction chemotherapy. Discuss the further management of this patient.
2. Discuss the recent advances in the diagnosis and management of rifampicin-resistant and multidrug-resistant tuberculosis.

II. Write notes on:

(10 x 7 = 70)

1. Fecal microbiota transplantation.
2. Post-transplant lymphoproliferative disease.
3. Non-culture methods for laboratory diagnosis of systemic fungal infections.
4. Ebola virus outbreak in West Africa.
5. Isavuconazole.
6. Candida auris.
7. Chemotherapy to prevent HIV – related tuberculosis.
8. Pan-genotypic, directly acting antivirals for treatment of chronic hepatitis C virus infection.
9. Acute encephalitis-like syndrome and hypoglycemic toxins.
10. Neurologic complications of Zika virus infection.
