(LP 494) AUGUST 2019 **Sub. Code: 1494**

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/mm^3. 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.

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(DM 0821) AUGUST 2021 **Sub. Code: 1494**

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. A 52-year-old male, diabetic, and hypertensive with chronic renal failure is referred to you as he is being considered for a renal transplant.

   What evaluation would you do in this patient before clearing him for a renal transplant?

   Discuss the recommended vaccines and antibiotics that you would prescribe before renal transplant.

2. A 43-year-old male, day 10 following a bone marrow transplant for severe aplastic anaemia develops high spiking fevers with chills. Multiple blood cultures are growing yeast.

   Enumerate the risk factors for developing candidemia.

   What are the various treatment strategies, therapeutic options, and complications of candidemia.

II. Write notes on: **(10 x 7 = 70)**

1. MALDI-TOF.
2. Pre-emptive therapy for CMV.
3. Anti-viral therapy for SARS-Cov 2.
4. Post transplant lymphoproliferative disorder.
5. Whole genome sequencing.
6. Non-invasive diagnostic modalities for the diagnosis of invasive fungal infections post stem cell transplant.
7. HHV 6 encephalitis.
8. Cryptococcal disease following solid organ transplant.
9. BK virus nephropathy.
10. Typhilits.

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