

D.M. – INFECTIOUS DISEASES

**Paper I – PRINCIPLES OF INFECTION CONTROL, ANTIBIOTICS,
ANTIVIRALS AND ANTIFUNGALS AND ITS PHARMACOKINETICS –
PHARMACODYNAMICS, ANTIMICROBIAL RESISTANCE AND
ANTIBIOTIC STEWARDSHIP**

Q.P. Code: 161491

Time: Three Hours

Maximum: 100 Marks

I. Elaborate on:

(2 x 15 = 30)

1. Discuss in detail various strategies to prevent transmission of Mycobacterium tuberculosis within health care settings. Compare the advantages and disadvantages of the various special ventilation systems to reduce M. tuberculosis transmission.
2. Describe the rationale, benefits, drawbacks and indications for prolonged infusion of beta-lactam antibiotics.

II. Write notes on:

(10 x 7 = 70)

1. Ceftazidime – Avibactam.
2. Loading doses for colistin.
3. Alcohol-based hand disinfection.
4. Liposomal Amphotericin B.
5. Chlorhexidine bathing for prevention of hospital acquired infections.
6. Metallo – beta – lactamases.
7. Post-exposure prophylaxis for diphtheria.
8. VAP prevention bundle.
9. Brincidofovir.
10. Boosted protease inhibitors.
