

**DETAILED SYLLABUS FOR THE POST OF ASSISTANT
PROFESSOR IN INFECTIOUS DISEASES IN MEDICAL
EDUCATION**

(CATEGORY NO.690/2025)

(TOTAL - 100 MARKS)

MODULE -1-HIV AND ANTIRETROVIRAL THERAPY (10 MARKS)

history, epidemiology, virology, immunology, disease spectrum including pulmonary, gastroenterological , neurological, cutaneous,musculoskeletal, autoimmune manifestations of HIV, Opportunistic infections, malignancy, treatment guidelines including antiretrovirals, drug toxicity, Drug resistance, prevention, future planning.

MODULE-2-VIRAL INFECTIONS

(10 MARKS)

- Arbo-viral illnesses including Dengue, Yellow fever, KFD, Chikungunya, Hantavirus, WNV, JE, Tick borne encephalitis, Syndromes associated with Arboviral infections; Herpes viridae and its infections (HSV, CMV, EBV, HSV6&7, KSAV, VZV), Poxviridae
- Hepatitis causing viruses including Hepatitis E
- Corona virus and SARS
- Mumps and measles viruses
- Rhabdoviruses
- Ebola and Marburg virus and other viral haemorrhagic fevers
- Adenovirus
- Papillomavirus
- JC, BK other polyoma viruses
- Influenza and parainfluenza
- Nipah, Hendra

- Mpox
- RSV
- Polio, Coxsackie, Echo, Enteroviruses
- HTLV 1 & 2

MODULE 3- Bacterial Diseases

(10 MARKS)

- Gram positive organisms; Gram negative organisms
- Anaerobic infections
- Mycobacteria: Tuberculosis: primary, secondary, pulmonary, extrapulmonary (as per anatomical structures), MDR and XDR TB
- Leprosy, Non-Tuberculous Mycobacteria
- Brucellosis, Chlamydial diseases, Mycoplasma
- Rickettsial diseases
- Syphilis, Leptospirosis other spirochetes, Nocardia, Actinomycosis

MODULE 4-FUNGAL INFECTIONS

(10 MARKS)

- Superficial mycoses, Subcutaneous mycoses
- Invasive fungal infections,
- Endemic Mycosis

MODULE 5-Pharmacokinetics and Pharmacodynamics of Antimicrobials

(10 MARKS)

- Drug interactions.
- Therapeutic drug monitoring.
- Time dependent-concentration dependent antibiotics.
- Drug toxicity

MODULE 6-Protozoal diseases

(10 MARKS)

- Entamoeba, Free living amoeba, Malaria, Babesia, Leishmaniasis, Toxoplasmosis, Trypanosomiasis,

Giardiasis, Trichomoniasis, Cryptosporidium and other HIV associated protozoas.

MODULE 7-ANTIMICROBIAL RESISTANCE, ANTIMICROBIAL STEWARDSHIP (10 MARKS)

- Treatment of Multi-drug resistant pathogens.

MODULE 8-Infection in Special Hosts (10 MARKS)

- Immunocompromised (congenital and acquired)
- Management of infections in cancer patients including febrile neutropenia
- Infections in transplant recipients: solid organ, hematopoietic stem cell
- Spinal cord injury
- Geriatric population including infections in long term care facilities
- Infection in asplenic hosts
- Surgical and trauma related infection: Bite, Burn, post operative fever

MODULE 9-Nosocomial Infections , Medical Device Related Infections , Vaccination, Bioterrorism and Travel Medicine (10 MARKS)

- Disinfection, sterilization, biomedical waste management.
- catheter-associated urinary tract infection - CAUTI
- Nosocomial Pneumonia (health care—associated pneumonia - HCAP; Ventilator-associated pneumonia - VAP)
- Catheter related infections (Central Line-Associated Bloodstream Infection- CLABSI)
- Viral hepatitis & other transfusion- transplantation transmitted infections
- CAUTI bundle, CLABSI bundle, VAP bundle, SSI bundle.

- Immunisation: Pediatric age group, adult, travelers
- Travel Medicine
- Bioterrorism

MODULE 10-SYNDROMIC APPROACH TO INFECTIOUS DISEASES **(10 MARKS)**

- Fever
- Thermoregulation and pathogenesis
- FUO and Acute febrile illnesses
- Fever with rash.
- Respiratory tract infections
- Bone and joint infections
- Central nervous system infections.
- Genitourinary infections
- Gastrointestinal infections
- Skin and soft tissue infections

NOTE: - It may be noted that apart from the topics detailed above, questions from other topics prescribed for the educational qualification of the post may also appear in the question paper. There is no undertaking that all the topics above may be covered in the question paper