

HPSC MO

**Previous Year Paper
(Subject Knowledge)**

10 Dec, 2023

Adda247

Test Prime

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DC01

Candidate's Roll No.



0452

Time Allowed : 3 Hours

Maximum Marks : 150

QUESTION PAPER SPECIFIC INSTRUCTIONS

(Please read each of the following instructions carefully before attempting questions)

- 1 There are eighteen (18) questions in all.
- 2 Candidate has to attempt any fifteen (15) questions in all.
- 3 Marks assigned to each question/part are given against it.
- 4 Word limit in questions, wherever specified should be adhered to.
- 5 Attempts of questions shall be counted sequential order. Unless struck off, attempt of a question shall be counted even if attempted partly. Any page or portion of the page left blank in the answer booklet must be clearly struck off.
- 6 No extra/additional sheet will be provided.
- 7 Answer must be written in the authorized medium. No marks will be given for answers written in a medium other than the authorized one.

1. Discuss the pathophysiology, risk factors, clinical features, complications and management of type 2 diabetes mellitus.
2. Discuss the fundamental differences between humoral and cell-mediated immunity. Describe the key players involved in each pathway. Explain how these two arms of the immune system collaborate and complement each other to provide effective protection against pathogens and foreign antigens.
3. Describe the anatomy and physiology of the respiratory system, and discuss the pathophysiology, clinical presentation, and treatment of bronchial asthma.
4. Explain the role of inflammation in atherosclerosis, and discuss the pathophysiology, risk factors, and management of coronary artery disease (CAD).
5. Compare and contrast ultrasound with other imaging modalities, such as X-ray, computed tomography (CT), and magnetic resonance imaging (MRI). Discuss situations where ultrasound is preferred over other techniques and vice versa, considering factors like cost, safety, accessibility, and the type of medical conditions being evaluated.
6. Discuss the etiology, risk factors, clinical presentation, and management of schizophrenia.
7. Explain the function of the renal system, and discuss the pathophysiology, clinical features, and management of chronic kidney disease (CKD).
8. Discuss the mechanism of action, spectrum, clinical use, and potential adverse effects of antimicrobials used for nosocomial infections.

9. Explain the process of blood coagulation, and discuss the pathophysiology, clinical presentation, and management of deep vein thrombosis (DVT).
10. Discuss the fundamental principles of toxicology, including the dose-response relationship, routes of exposure, and mechanisms of toxicity for various toxic agents. Describe the general approach to managing poisoning cases, including initial assessment, stabilization, and appropriate decontamination and antidote usage. Provide specific examples of common poisoning scenarios and their corresponding management strategies.
11. Describe the pathogenesis, clinical manifestations, and management of peptic ulcers.
12. Discuss the epidemiology of rabies, including its global distribution, and prevalence. Explain the modes of transmission of the rabies virus to humans and highlight the importance of understanding the reservoir hosts. Describe the typical clinical presentation of rabies in humans, emphasizing the various stages and neurological symptoms that characterize the disease.
13. Explain the pathophysiology, clinical presentation, and management of psoriasis.
14. Write about the history / objectives, and components of the National Tuberculosis Elimination Program (NTEP), earlier known as the Revised National Tuberculosis Control Program (RNTCP) and conduct a critical analysis of the same.
15. Write about the types, mechanism of action, usage, beneficial effects and adverse effects of oral contraceptive pills.
16. Discuss the etiology, epidemiology, clinical features and management of diarrhoea in children below five years of age.

17. Explain the pathophysiology of congenital cyanotic heart disease. Discuss the classification of these conditions based on anatomical features and hemodynamic consequences. Provide examples of cyanotic heart defects, their associated clinical manifestations, and how they impact oxygenation and systemic circulation.
18. Discuss the medical and surgical approaches for managing gallstones. Describe the indications, contraindications, and potential complications of nonsurgical approaches such as oral bile acid dissolution and lithotripsy. Compare these nonsurgical approaches with the surgical interventions, such as laparoscopic cholecystectomy and endoscopic removal of bile duct stones. Consider the long-term outcomes and patient considerations when choosing the appropriate management strategy.