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IAS Mains Medical Science Papers 1994

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IAS Mains Medical Science 1994

Paper I

Section A

1. Answer any three of the following (each in about 200 words) :
 - a. Describe the mode of spread of cancer (20) .
 - b. Name the viruses which are sexually transmitted. What are the possible mechanisms by which HIV destroys the immune cells of the body (20) ?
 - c. Define basal metabolic rate (BMR) . Discuss the factors that influence the BMR of a subject (20) .
 - d. What are the clinical conditions where morphine or morphine like drugs are used and state two important symptoms/signs for recognition of its overdose (20) ?
 - e. Describe the main events in the development of heart and explain its common congenital anomalies (20) .
 - f. Enumerate the various therapeutically useful penicillins. Write briefly on mode of action, antibacterial spectrum, therapeutic uses and common adverse effects of these antibiotics (20) . (Anatomy, Physiology & Biochemistry)
2. Answer the following questions
 - a. Define cardiac output. How can it be measured? Discuss the factors controlling it (20) .
 - b. What are vitamins? Name the diseases produced by the deficiency of vitamin A, vitamin C, vitamin D, vitamin B, and vitamin B12. What are the functions of vitamin E (20) ?
 - c. Draw and label a cross-section (horizontal section) of abdomen passing through both the kidneys (20) .
3. Answer the following questions
 - a. How is glucose homeostasis maintained in the body (20) ?
 - b. What are enzymes? Discuss the factors that affect the enzyme activity (20) .
 - c. Define and enumerate broncho-pulmonary segments. What is their clinical significance (20) ?

Section B

Pathology & Microbiology

1. Answer the following questions

- a. Define inflammation. Describe the vascular phenomenon of the inflammation (30) .
- b. Name the bacterial diseases which are transmitted by contaminated water. Describe the laboratory diagnosis of typhoid fever and the precautions to be undertaken in the interpretation of laboratory results (30) .

2. Answer the following questions

- a. Write in brief about aetiopathogenesis and histopathology of alcoholic cirrhosis (30) .
- b. Define sterilization and mention the various physical methods of sterilization and their applications (30) .

Section C

Pharmacology Forensic Medicine & Toxicology

1. Discuss in detail the general principles of treatment of barbiturate poisoning (60) .

2. Answer the following questions

- a. Write in brief about the significance of DNA fingerprinting in personal identification (20) .
- b. What is the mode of action of beta-blockers in lowering blood pressure (20) ?
- c. What are clinical manifestations of organo-phosphorus poisoning and what antidote will you use in this poisoning (20) ?

Paper II

Section A

1. Write short notes on any three of the following (each in about 200 words) : (3 × 20 = 60)

- a. Peripheral blood picture in Chronic Myeloid Leukaemia
- b. Complications of varicose veins in the lower extremity
- c. Methods of induction of labour
- d. Important National Mortality Indicators
- o General Medicine

2. Discuss the complications of Diabetes Mellitus (60) ?

3. Answer the following questions

- a. What is the mode of transmission of Human Immunodeficiency Virus? How will you prevent its spread (20) .
- b. Discuss the etiology and complications of Portal Cirrhosis (20) .

- c. Describe the treatment of an acute case of Bronchial Asthma (20) .

Section B

(General Surgery)

4. What are the various causes of retention of urine? Describe the management of a case of retention of urine due to stage II benign hypertrophy of prostate (60) .

1. Answer the following questions

- a. Discuss the complications of Gall bladder disease (20) .
- b. What do you understand by the term 'Adynamic Intestinal Obstruction' Describe the principles of management of such a case (20) .
- c. What are the broad principles in the management of a case of Fracture Spine (20) ?

Section C

Obstetric and Gynecology including Family Planning

- 1. Define high risk pregnancy. Discuss the management of a primigravida at 36 weeks of gestation with BP of $\frac{150}{100}$ mm Hg and one plus albuminuria (60) .
- 2. Answer the following questions
 - a. How will you investigate the female partner in a couple with primary infertility (20) ?
 - b. Enumerate the various sexually transmitted diseases. Discuss the management of Trichomonal vaginalis infection (20) .
 - c. Discuss the various methods for medical termination of pregnancy during second trimester (20) .

Section D

Preventive and Social Medicine

- 1. Describe the type of epidemiological study you will plan to determine the prevalence of risk factors of Coronary heart disease in the urban adults. 60
- 2. Answer the following questions
 - a. Enumerate the components of Primary Health Care. Briefly describe the principles underlying the Primary Health Care (20) .
 - b. A two year old child has grade II Protein Energy Malnutrition. How will you manage such a case (20) ?
 - c. A 35 year old man seeks employment in an Asbestos factory. As the Medical Officer-in charge, how will you assess his suitability for the job? Discuss (20) .