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IAS Mains Medical Science Papers 1995

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IAS Mains Medical Science 1995

Paper I

1. Answer any three of the following (each in about 200 words) :
 - a. Give differences between benign and malignant tumors. Discuss in brief about various methods of tumor diagnosis (20) .
 - b. Describe herpes viruses and lesions produced by them (20)
 - c. Describe various mechanisms present in human body for maintaining the blood pH. Give an account of acid base disorders-their causes and compensatory mechanisms (20) .
 - d. An AB blood group man cannot be the father of a child of blood group O-Comment (20) .
 - e. Describe in brief various therapeutic uses of acetylsalicylic acid. Give its possible mechanism of action as antithrombotic agent (20) .
 - f. Describe in brief the anatomy and applied significance of inguinal canal. Add a note on descent of testis (20) .

Section A

Anatomy, Physiology & Biochemistry

1. Answer the following questions
 - a. Classify the nuclei of hypothalamus. Describe its relationship to food and water intake (20) .
 - b. How is hypercholesterolaemia harmful? Mention its causes for hypercholesterolaemia and enumerate various measures that are used to decrease serum cholesterol level and give their mechanism of action (20) .
 - c. Draw and label a transverse section (horizontal section) of thorax through the roots of lungs (20) .
2. Answer the following questions
 - a. What are normal EEG waves? How are they generated? Compare EEG between REM and NREM sleep. Add a note on clinical significance of EEG (20) .
 - b. Discuss the biochemical basis of different types of vitamin deficient anaemias (20) .

c. Answers the questions below

- i. Write a short note on pelvic diaphragm.
- ii. Describe briefly the movement of knee joint mentioning the role of various ligaments, menisci and muscles (20) .

Section B

Pathology & Microbiology

1. Answer the following questions

- a. Write pathogenesis and histopathology of bronchogenic carcinoma (30) .
- b. Describe briefly acquired immunity (30) .

2. Answer the following questions

- a. Write pathogenesis and histopathology of Rheumatic heart disease (30) .
- b. Define "Disinfection" and mention various chemical agents used for disinfection and their applications (30) .

Section C

Pharmacology Forensic Medicine & Toxicology

1. What do you understand by luminal antiamoebic agents? Describe the spectrum of antiamoebic action of metronidazole, its side effects and contraindications (60) .

2. Answer the following questions

- a. Write in brief the procedure of identifying an individual from bite marks (20) .
- b. How will you differentiate an Entry Wound from an Exit Wound (20) ?
- c. Define 'Poison' What do you mean by "Corrosive Poison" (20) ?

Paper II

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

- a. Discuss the causes of convulsion in a middle aged man.
- b. What are the common causes of enlargement of cervical lymph nodes? How will you treat a case of tubercular cervical lymphadenitis?
- c. Discuss the methods of detection of ovulation in an infertile woman.
- d. Discuss the nature and magnitude of the HIV/AIDS problem in India.

Section A

General Medicine

1. Discuss the etiology, clinical features, complications and management of Hypertension (60) .

2. Answer the following questions

- a. Discuss the causes of huge splenomegaly in our country (20) .

- b.* Discuss the causes of haemoptysis (20) .
- c.* How will you investigate a case of Acute Glomerulonephritis (20) ?

Section B

General Surgery

- 1.* Describe the clinical features of Amoebic abscess liver and its management (60) .
- 2.* Answer the following questions
 - a.* How will you treat a case of strangulated inguinal Hernia in a middle aged man (20) ?
 - b.* What is an abscess? Describe the method of draining a deep abscess by Hilton's method (20) .
 - c.* What is Courvoisier's Law? What is its fallacy? How will you manage a case of obstructive jaundice due to CA Head pancreas (20) ?

Section C

Obstetric and Gynecology including Family Planning

- 1.* A primigravida complains of vaginal bleeding at 34 weeks of pregnancy. What are the causes? How will you differentiate between placenta previa and revealed variety of Abruptio placenta (60) ?
- 2.* Answer the following questions
 - a.* Discuss the common types of intrauterine contraceptive devices (20) .
 - b.* Discuss the different methods available for early detection of female genital tract malignancy (20) .
 - c.* How will you diagnose and treat monilial vaginitis (20) ?

Section D

Preventive and Social Medicine

- 1.* Enumerate the water borne viral infections. Outline the steps you would follow to investigate an epidemic of jaundice in an urban slum area (60) .
- 2.* Answer the following questions
 - a.* What are the measures used to evaluate a "screening test" (20) ?
 - b.* Describe briefly the 'stages' in the demographic cycle. What are the factors contributing to high fertility in India (20) ?
 - c.* Briefly describe the steps to eliminate Neonatal Tetanus in India (20) .