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H.P.A.S. (Main)—2013

MEDICAL SCIENCE

Paper I

Time : 3 Hours

Maximum Marks : 150

Note :— Answer *Five* questions, including question no. 1 which is compulsory.

1. Write an account of the structure, function and organization of Medical Council of India (MCI). What is disciplinary control of MCI? Describe the laws in relation to Indian Medical Register, rights and privileges of medical practitioner, infamous conduct, warning notices and euthanasia. 5+5+20=30
2. Describe the anatomy of the Pituitary Gland and the different hormones secreted by it. Describe the pathophysiology of Gigantism and Dwarfism. 10+10+10=30

P.T.O.

3. Write short notes on :

6×5=30

- (a) Menstrual cycle
- (b) Innervations of the Urinary Bladder
- (c) Spermatogenesis
- (d) Physiology of Deglutition
- (e) Lower Motor Neuron Paralysis
- (f) Pancreatic Secretions.

4. Write short notes on :

6×5=30

- (a) Transverse-Section through the Spinal Cord
- (b) Histology of the Kidney
- (c) Chromosome
- (d) Acidosis
- (e) Phenyl-Ketonuria
- (f) Homocysteine.

5. Write short notes on :

6×5=30

- (a) ESBL [Extended Spectrum β (beta) Lactamase]
- (b) Mechanism of gene transfer in bacteria
- (c) Agents causing food poisoning
- (d) Toxic shock syndrome
- (e) Rabies Vaccine
- (f) Slow Growing Viruses.

6. Discuss in brief :

6×5=30

- (a) Irritable Bowel Syndrome
- (b) Amyloidosis
- (c) Dysplasia
- (d) Significance of CD_4 and CD_8 ratio in HIV Management
- (e) Autosomal Sex Linked Disorder
- (f) Aplastic Anemia.

P.T.O.

7. Discuss in brief : 6×5=30

- (a) Hospital Waste Management
- (b) Atrial Fibrillation
- (c) Post Mortem Changes after Death
- (d) Renal Function Test
- (e) Immunisation Schedule
- (f) Chancroid.

8. Discuss in brief : 3×10=30

- (a) Source, daily requirement and biochemical action of Vitamin A
- (b) Alcoholic Cirrhosis
- (c) Cholelithiasis.