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**HPAS (M)—2015**

**MEDICAL SCIENCES**

**Paper I**

*Time : 3 Hours*

*Maximum Marks : 150*

*Note :— Answer Five questions in all, including Question No.1 which is compulsory.*

1. Enumerate fat soluble and water soluble vitamins. What are the sources and recommended allowances of various 'B' groups of vitamins? Discuss in detail the manifestations resulting from their deficiency and the preventive measures thereof. 30
2. Give a detailed account of the location, relations, blood supply, nerve supply and lymphatic drainage of various endocrine glands in human body. 30

P.T.O.

3. Write short notes on :

5×6=30

- (a) Neuromuscular transmission
- (b) Mastication and deglutition
- (c) Therapeutic use of oxygen
- (d) Pathophysiology of diarrheal disease
- (e) Diet during pregnancy and lactation.

4. Write short notes on :

5×6=30

- (a) Estimation of time since death on post-mortem examination
- (b) Medico-legal interpretation of post-mortem findings in asphyxial deaths
- (c) Hanging and strangulation.
- (d) Infanticide, foeticide and stillbirth
- (e) Signs of intrauterine death and live birth.

5. Discuss in brief the following : 3×10=30

(a) Protozoan parasites causing human infection

(b) Common laboratory methods for diagnosis of fungal infections

(c) Chemical disinfectants.

6. Discuss in brief the following : 3×10=30

(a) Immunological basis of organ transplant rejection

(b) Etiopathogenesis and complications of peptic ulcer

(c) Non-neoplastic lesions of thyroid.

7. Discuss in brief the following : 3×10=30

(a) Pharmacotherapy of pain

(b) Diuretics

(c) Treatment of poisoning.

8. Discuss in brief the following :

3×10=30

(a) Environmental pollutants and carcinogenesis .

(b) Vaccines currently in use

(c) Reproductive hormones.