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**HPAS (M)—2014**

**MEDICAL SCIENCES**

**Paper I**

*Time : 3 Hours*

*Maximum Marks : 150*

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

1. Define DNA fingerprinting. Describe techniques of DNA fingerprinting and the application of DNA profiling in forensic medicine. 10+20=30
  
2. Describe briefly about : 3×10=30
  - (a) List and define the main types of spina bifida
  - (b) Metabolism of lipoproteins and clinical significance of Hyperlipidimeas
  - (c) Workmen's Compensation Act.

P.T.O.

3. Write short notes on : 6×5=30

- (a) Battered baby syndrome
- (b) Lymphatic drainage of tongue
- (c) Telomers
- (d) Function of platelets
- (e) Cytopathic effect
- (f) Paraneoplastic syndromes.

4. State briefly about : 6×5=30

- (a) Graft versus host reaction
- (b) Pathogenesis of shock
- (c) Atelectasis
- (d) Developmental anomalies of heart and blood vessels
- (e) Inborn error of glucose metabolism
- (f) Subcutaneous mycosis

5. Write short notes on : 6×5=30

- (a) Immunological tolerance
- (b) Tumor markers
- (c) Irreversible cell injury
- (d) Pineal body
- (e) Translation of genetic code
- (f) Gettler test.

6. Write brief notes on : 6×5=30

- (i) Corpus Delicti
- (ii) Venous drainage of spinal cord
- (iii) Inclusion bodies
- (iv) Classification of Amyloidosis
- (v) Functions of Plasma proteins
- (vi) Inborn errors of Glucose metabolism.

7. Write short notes on : 6×5=30

- (a) Diagnosis of Leptospirosis
- (b) Biosynthesis of Fatty Acids
- (c) Newer diagnostic tools for Tuberculosis
- (d) Physiological basis of transfusion medicine
- (e) Pronuclei
- (f) Anatomy of neuromuscular junction.

8. Describe briefly : 10×3=30

- (a) Ethics related O HIV patients
- (b) Doctors and media
- (c) Examination, preservation, despatch and identification of seminal stains