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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 :  

   \[3\times10=30\]

   (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:

(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:

(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:

(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:

(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.

P.T.O.
7. Write short notes on:

(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:

(a) Ethics related O HIV patients

(b) Doctors and media

(c) Examination, preservation, despatch and identification of seminal stains