



**MBBS FIRST PROFESSIONAL (PART-II)
MODEL QUESTIONS FOR ANNUAL 2009**

**Physiology
(Multiple Choice Questions)**

- Q.1 A patient with an acid base disturbance shows in his arterial blood pH = 7.3, PCO₂ = 70 mmHg (Normal = 40 mmHg) and HCO₃⁻ = 38 mEq/L (Normal = 24 mEq/L). He is most likely suffering from:**
- a) Metabolic acidosis
 - b) Metabolic alkalosis
 - c) Compensated metabolic acidosis
 - d) Uncompensated respiratory acidosis
 - e) Partially compensated respiratory acidosis
- Q.2 If a sharp pointed object touches the foot of a person, the foot is immediately withdrawn from the object involuntarily. This action involves the receptors:**
- a) Free nerve endings
 - b) Hair follicle receptors
 - c) Meissner's corpuscles
 - d) Pacinon corpuscles
 - e) Ruffini's end organs
- Q.3 A middle aged man present with tremors during voluntary action, incoordinate movements, pendular knee jerk and staggering gait. The man is most likely having lesion of:**
- a) Basal ganglia
 - b) Cerebral cortex
 - c) Cerebellum
 - d) Hypothalamus
 - e) Thalamus
- Q.4 A middle aged woman consults her physician with the complaints of weakness and increased pigmentation of skin of hands, elbows and other parts of the body. Her arterial blood pressure was 90/60 mmHg, Blood glucose (fasting) = 70 mg/dl and raised serum ACTH level. She was most likely suffering from:**
- a) Addison's disease
 - b) Hypopituitarism
 - c) Hypoparathyroidism
 - d) Myxedema
 - e) Pheochromocytoma
- Q.5 An obese stocky and short statured child with mental retardation is most likely suffering from:**
- a) Addison's disease
 - b) Cretinism
 - c) Cushing's syndrome
 - d) Adrenal adenoma
 - e) Dwarfism

- Q.6 A middle aged man has enlargement of hands and feet, protrusion of the lower jaw, enlargement of the nose and supraorbital ridges and hunched back. He is most likely suffering from:**
- a) Acromegaly
 - b) Gigantism
 - c) Hyperparathyroidism
 - d) Pheochromocytosis
 - e) Thyrotoxicosis
- Q.7 A middle aged woman has obesity, increased thirst, excessive urine excretion, increased appetite and tiredness. She is most likely suffering from:**
- a) Acromegaly
 - b) Cushing's syndrome
 - c) Pheochromocytoma
 - d) Type 2 diabetes mellitus
 - e) Thyrotoxicosis
- Q.8 A man wants to swallow a very bitter tablet. He must avoid contact of the tablet with the:**
- a) Back of the tongue
 - b) Hard palate
 - c) Sides of the tongue
 - d) Tip of the tongue
 - e) Under surface of the tongue