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First Year (New) Pharmacy HUMAN ANATOMY AND PHYSIOLOGY (105)

Time: Three Hours

Maximum Marks: 80

Attempt total six questions. Question No.1 is compulsory. Note: i) From the remaining questions attempt any five.

Illustrate your answer with neat sketches wherever necessary,

Attempt any five questions.

 $5 \times 2 = 10$

Write the name of cartilages present in our body.

Enlist the different connective tissues.

Write number of bones present in following body part

i) Whole body

ii) Head

iii) Face

iv) Neck

Name the element that initiates muscle contraction.

Explain reflex action.

Write the type of cholinergic and adrenergic receptors.

Attempt any two:

 $2 \times 7 = 14$

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Draw labelled diagram of the following tissues.

Simple columnar epithelium

ii) Adipose tissue

iii) Compact bone

b) Differentiate between the following (any two)

Compact bone and spongy bone

ii) Sensory nerves and motor nerves

iii) Smooth muscles and cardiac muscles

Describe briefly the different types of joint.

Attempt any two.

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 $2 \times 7 = 14$

P.T.O.

Discuss the physiology of muscle contraction and relaxation.

Write notes on any two:

ii) Hypothalamus

iii) Medulla oblongata

Discuss briefly the disorders related to RBC.

Attempt any two:

 $2 \times 7 = 14$

Draw a well labelled diagram of lymph gland. Write the functions of lymph node.

Draw a labelled diagram of internal structure of Heart.

Explain Cardiac cycle.

Attempt any two:

 $2 \times 7 = 14$

Draw a labelled diagram of villus.

Write the functions of liver.

Write the functions and regulation of insulin.

Attempt any two RGPVonline.com

Draw a labelled diagram of Nephron.

Explain the physiology of Urine formation.

Write a short note on:

Hypertension

ECG ii)

Attempt any two:

2×7=14 RGPVonline.com 2×7=14

Draw a labelled diagram of respiratory system. Discuss the chemical factors controlling respiration.

Explain the physiology of taste.

Draw a labelled diagram of skin.

Explain (any four)

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Myopia

Glaucoma

Asthma

Anaemia

Thrombosis

Rh. Group

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iv) Cardiac muscle

Synapse

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