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Roll No.

2041174(041)

**Diploma in Pharmacy (First Year) Examination,
April-May, 2022**

PC1 (New Scheme)

(Pharmacy Branch)

HUMAN ANATOMY & PHYSIOLOGY

Time Allowed : Three hours

Maximum Marks : 80

Note : Attempt all sections as directed.

Section-A

(Objective Type Questions)

20×1=20

***Note : Attempt all questions. Each question carries
1 mark.***

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FTO

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1. Multiple choice question :

(i) All are synovial joints except :

- (a) Radio ulnar joint
- (b) Wrist joint
- (c) Temporomandibular joint
- (d) Joints between vertebral bodies

(ii) Which bone is also known as keel cap :

- (a) Cuboid bone
- (b) Talus bone
- (c) Tibia bone
- (d) Patella bone

(iii) Olfactory nerves is related to :

- (a) Sight
- (b) Sense of smell
- (c) Movement in intestine
- (d) Facial sensation

(iv) Largest part of human brain is :

- (a) Cerebrum

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(b) Cerebellum

(c) Mid brain

(d) Medulla oblongata

(v) Pace maker of a normal heart is :

(a) AV node

(b) SA node

(c) AV bundle

(d) Perkinje fiber

(vi) An example of ball and socket joint is :

(a) Radio ulnar joint

(b) Elbow and knee joint

(c) Shoulder and hip joint

(d) Temporomandibular joint

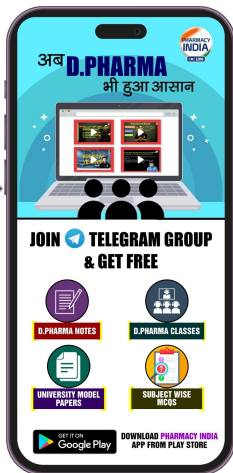
(vii) Which is the largest organ in the body :

(a) Brain

(b) Skin

(c) Kidney

(d) Heart

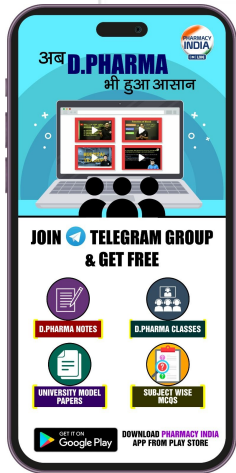


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- (viii) The organ predominantly involved in metabolism of drug is :
- (a) Liver
 - (b) Lungs
 - (c) Stomach
 - (d) Spleen
- (ix) Normal glomerular filtration rate in adult is :
- (a) 75 ml/min
 - (b) 100 ml/min
 - (c) 125 ml/min
 - (d) 200 ml/min
- (x) Oxytocin is the hormone release from :
- (a) Anterior lobe of pituitary
 - (b) Parsintermedia
 - (c) Infundibulum
 - (d) Posterior lobe of pituitary
- (xi) Natural killer cells are types of :
- (a) Lymphocytes
 - (b) Platelets

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- (c) Leukocytes
 - (d) Erythrocytes
- (xii) Implantation occur at the stage of :
- (a) Fetus
 - (b) Blastocyst
 - (c) Morella
 - (d) Oocytes
- (xiii) Uterus are lined by :
- (a) Squamous epithelium
 - (b) Columnar epithelium
 - (c) Transitional epithelium
 - (d) Ciliated epithelium
- (xiv) The lymphatic system consist of all the following except :
- (a) Blood
 - (b) Lymph node
 - (c) Lymphatic vessel
 - (d) Lymph



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(xv) The instrument used for measuring blood pressure called

- (a) Electrocardiogram
- (b) Sphygmomanometer
- (c) Stethoscope
- (d) Anemometer

(xvi) Vitamin essential for blood clotting is :

- (a) Vitamin K
- (b) Vitamin C
- (c) Vitamin A
- (d) Vitamin B

(xvii) Which of the following hormone is released from testes :

- (a) Progesterone
- (b) Testosterone
- (c) Estrogen
- (d) Relaxin

(xviii) Hormone which help in production of milk is :

- (a) FSH

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(b) LH

(c) Prolactin

(d) Oxytocin

(xix) The structural and functional unit of the nerves system is :

(a) Neuron

(b) Nephron

(c) Texon

(d) Axon

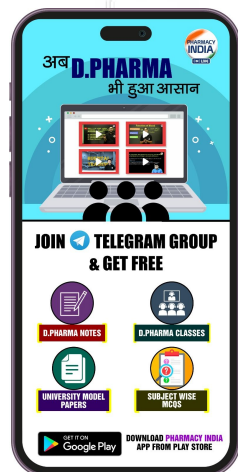
(xx) Henle loop is :

(a) V shaped

(b) U shaped

(c) O shaped

(d) C shaped



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Section-B

(Short Answer Type Questions) $10 \times 3 = 30$

Note : Attempt any ten questions out of eleven questions. Each question carries 3 marks.

2. Write the physiology of muscle contraction.
3. Explain nephron with neat and labeled diagram.
4. Explain disorder of heart.
5. Explain ABO blood grouping system.
6. Write the function of mitochondria and microsome.
7. Write the scope of anatomy and physiology.
8. Define and classify of tissue.
9. Define hormones and classify endocrine gland.
10. What do you mean by ESR?
11. Discuss the function of kidney.
12. Explain the physiology of urine formation.

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Section-C

(Long Answer Type Questions) $6 \times 5 = 30$

Note : Attempt any six out of seven questions. Each question carries 5 marks.

13. Describe the cell. Structure and function with suitable diagram.
14. Describe the structure of heart. Give and account of cardiac cycle.
15. Write physiology of vision. Draw labeled diagram of human eye.
16. Define and describe the formation of lymph. What is the composition of lymph? Give its function.
17. Discuss in detailed physiology of digestion and absorption.
18. Describe female reproductive system with diagram.
19. Explain the structure and function of brain.

