

24/8/23

Seat Number

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CJ-38

BP-201-T

Human Anatomy and Physiology-II
(712201)

Total Pages : 7]

Time : Three Hours

Max. Marks : 75

Note : (1) Do not write anything on question paper except Seat No.

(2) Draw neat, labelled diagram wherever necessary.

(3) Figures to the right indicate full marks.

(4) All questions are compulsory.

(5) Students should note, no supplement will be provided.

(6) Graph or diagram should be drawn with the black ink pen or black HB pencil.

1. Attempt all the following Multiple-Choice Questions (MCQs). 20

(i) Which structures constitute the "upper respiratory tract" ?

(a) Nose, pharynx and larynx

(b) Larynx, epiglottis and bronchi

(c) Bronchi and bronchioles

(d) Alveoli and pleurae

(ii) The cells that conduct messages towards the brain are the :

(a) Motor neurons

(b) Sensory neurons

(c) Interneurons

(d) Neuroglia

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- (iii) Peptic cells in the gastric glands secrete
- (a) Mucus
 - (b) HCL
 - (c) Pepsinogen
 - (d) Intrinsic factor
- (iv) The most of vital centers are located within which area of the brain ?
- (a) Hypothalamus
 - (b) Cerebral cortex
 - (c) Pons
 - (d) Medulla
- (v) Which is the longest organ of human digestive system ?
- (a) Pancreatic duct
 - (b) Small intestine
 - (c) Large intestine
 - (d) Oesophagus
- (vi) Finger like projection called fimbriae is found in
- (a) Cervix
 - (b) Infundibulum
 - (c) Isthmus
 - (d) Ureter

(vii) The apex of renal pyramid is called the :

- (a) Major calyx
- (b) Minor calyx
- (c) Renal papilla
- (d) Renal pelvis

(viii) What are the main muscles involved in normal inspiration ?

- (a) Diaphragm
- (b) Intercostal muscles
- (c) Appendix
- (d) Both (a) and (b)

(ix) Identify the area of cerebrum that helps in thinking and problem solving :

- (a) Frontal lobe
- (b) Parietal lobe
- (c) Occipital lobe
- (d) Temporal lobe

(x) Bile Juice is formed in the

- (a) Kidney
- (b) Salivary gland
- (c) Liver
- (d) Lung

- (xi) The functional unit of the kidney is called as
- (a) Glomerulus
 - (b) Nephron
 - (c) Corpuscles
 - (d) Calyx
- (xii) Which of the following helps in respiration ?
- (a) Diaphragm
 - (b) Thymus
 - (c) Melatonin
 - (d) None of the above
- (xiii) Identify the part of digestive system :
- (a) Caecum
 - (b) Alveoli
 - (c) Uterus
 - (d) Neuralgia
- (xiv) Select the function of kidneys :
- (a) Help regulate blood volume
 - (b) Help control blood pressure
 - (c) Help control PH
 - (d) All of the above are correct

(xv) Which hormone is responsible for the onset of puberty in female ?

- (a) Prolactin
- (b) Testosterone
- (c) FSH
- (d) None of the above

(xvi) Which is of the following the smallest gland ?

- (a) Pineal gland
- (b) Thymus gland
- (c) Sweat gland
- (d) Thyroid gland

(xvii) Exchange of dissolved gases between capillary blood and body tissues is

- (a) Internal respiration
- (b) External respiration
- (c) Ventilation
- (d) None of the above

(xviii) Select the part of brain which regulates the body temperature ?

- (a) Thalamus
- (b) Cerebrum
- (c) Hypothalamus
- (d) Cerebellum

(xix) Identify the hormone that regulates secretion of breast milk :

- (a) Oestrogen
- (b) Oxytocin
- (c) Progesterone
- (d) Prolactin

(xx) The sleep wake cycle of the body is regulated by which hormone ?

- (a) Prolactin
- (b) Cortisol
- (c) Progesterone
- (d) Melatonin

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2. Attempt any *two* of the following :

- (i) Describe process of urine formation and give the composition of normal human urine.
- (ii) Classify endocrine glands along with their hormones secreted in detail. Elaborate on functions of thyroid gland.
- (iii) Explain in detail the mechanism and regulation of respiration.

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3. Attempt any *seven* of the following :

- (i) Draw well labelled diagram of the Nerve cell. Add note on organisation of human nervous system.

- (ii) Describe anatomy and physiology of small intestine.
- (iii) Write a note on artificial respiration and resuscitation methods.
- (iv) Explain in brief anatomy and physiology of male reproductive system.
- (v) Draw structure and give functions of brain.
- (vi) Discuss digestion and absorption of carbohydrates and fats.
- (vii) Write a note on action potential and nerve fibre.
- (viii) Enlist functions of kidney. Emphasize its role in acid base balance.
- (ix) Write a note on menstrual cycle in female.