



- Notes :
1. All question carry equal marks.
 2. Answer all question.
 3. Illustrate your answer necessary with the help of neat sketches.
 4. Use of pen Blue/Black ink/refill only for writing the answer book.

1. MCQ

20

- 1) Emulsification of fat is carried out by
 - a) Bile Pigments
 - b) Bile Salts
 - c) HCl
 - d) Pancreatic juice
- 2) Optimum pH for Enzyme trypsin is -
 - a) 5.9
 - b) 4.6
 - c) 8.5
 - d) 7.0
- 3) Neurons generate and transmits electrical impulses called
 - a) Action potential
 - b) Zetapotential
 - c) Signals
 - d) Synapse
- 4) The volume of air that remains in the lungs after normal expiration is
 - a) Residual Volume
 - b) Vital Capacity
 - c) Expiratory Capacity
 - d) Functional Residual Capacity
- 5) The most powerful respiratory stimulus for breathing is
 - a) Loss of oxygen in tissues
 - b) Increase carbon dioxide
 - c) Acidosis pH
 - d) Alkalosis pH
- 6) On an average, a healthy human breakes ----- times / minute.
 - a) 20 – 40
 - b) 1 – 6
 - c) 12 – 16
 - d) 16 – 25
- 7) Inner to the hilum of kidney is a broad tunnel shaped space called.
 - a) Cortex
 - b) Medulla
 - c) Pelvis
 - d) Calyx
- 8) Endocrine glands have ----- to carry their secretions.
 - a) Capillaries
 - b) tubules
 - c) No ducts
 - d) duct
- 9) Which of the following hormone is steroid.
 - a) Epinephrine
 - b) Thyroxine
 - c) Estogen
 - d) Gonadotropin
- 10) Insulin is secreted by ----- of Pancreas.
 - a) α – cells
 - b) β – cell
 - c) δ – cell
 - d) None of these
- 11) Pituitary gland is regulated by
 - a) Adrenals
 - b) Pincal
 - c) Thyroid gland
 - d) Hypothalamus
- 12) Pineal gland is located on
 - a) Dorsal Midbrain
 - b) Ventral Midbrain
 - c) Dorsal side of forebrain
 - d) Ventral side of hindbrain

- 13) NH_4 is converted into urea in
 - a) Kidney
 - b) Liver
 - c) Spleen
 - d) Intestine
- 14) Each kidney has how many nephron.
 - a) about 2 million
 - b) about 1 million
 - c) about 5000
 - d) about 50000
- 15) Prostate glands are located below
 - a) gubernaculum
 - b) Seminal vesicles
 - c) Epididymis
 - d) bulbourethral glands
- 16) Which part of ovary in mammals act as an endocrine gland after ovulation.
 - a) Stroma
 - b) Germinal epithelium
 - c) Vitelline membrane
 - d) Graafian follicle
- 17) Who introduced the term Nucleic Acid.
 - a) Meisner
 - b) Robert Brown
 - c) Lipmann
 - d) Altermann
- 18) Which one the following secretes the gonadotropic hormones.
 - a) Adrenal
 - b) Anterior pituitary
 - c) Thyroid
 - d) Posterior pituitary
- 19) Secretion of Saliva can stimulated by
 - a) Sight of food
 - b) Smell of food
 - c) Presence of food
 - d) All of above
- 20) Sites of gaseous exchange in using are
 - a) Alveoli
 - b) Tracheoles
 - c) Bronchioles
 - d) Pleura

2. Solve any two from three. 10x2=20

- 1) Describe the structure of spinal cord. Write its functions? Add a note on simple reflex Arc.
- 2) Enlist the various parts of female reproductive system? Describe the structure and function of ovary.
- 3) Explain the role of kidney in the formation of urine.

3. Solve any seven from nine. 7x5=35

- 1) Explain the Nervous Control of Respiration.
- 2) Write the various Hormones with functions secreted by Adrenal Cortex.
- 3) Describe the structure of Insulin.
- 4) Write the Hormones with function secreted by Anterior pituitary gland.
- 5) Write the structure and function of stomach.
- 6) Draw the diagram of Liver write its function.
- 7) Explain the digestion of Carbohydrates
- 8) Explain the formation and role of AIT.
- 9) Explain the process of oogenesis.
