

# National Testing Agency

**Question Paper Name:** Morphology Development Biology and Pysiology of Mammals  
**Subject Name:** Morphology Development Biology and Pysiology of Mammals  
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**Duration:** 180  
**Total Marks:** 100  
**Display Marks:** Yes  
**Share Answer Key With Delivery Engine:** Yes  
**Actual Answer Key:** Yes

## Morphology Development Biology and Pysiology of Mammals

**Group Number :** 1  
**Group Id :** 41652939  
**Group Maximum Duration :** 0  
**Group Minimum Duration :** 120  
**Revisit allowed for view? :** No  
**Revisit allowed for edit? :** No  
**Break time:** 0  
**Group Marks:** 100

## Morphology Development Biology and Pysiology of Mammals

**Section Id :** 41652939  
**Section Number :** 1  
**Section type :** Online  
**Mandatory or Optional:** Mandatory  
**Number of Questions:** 100  
**Number of Questions to be attempted:** 100  
**Section Marks:** 100  
**Display Number Panel:** Yes  
**Group All Questions:** No

**Sub-Section Number:** 1  
**Sub-Section Id:** 41652940  
**Question Shuffling Allowed :** Yes

**Question Number : 1 Question Id : 4165293141 Question Type : MCQ Option Shuffling : No Display Question Number : Yes**  
**Single Line Question Option : No Option Orientation : Vertical**

**Correct Marks : 1 Wrong Marks : 0**

Enterokinase converts:

- a) Trysinogen to trypsin
- b) Pepsinogen to pepsin
- c) Proteins into polypeptides
- d) Proteases into peptones

**Question Number : 2 Question Id : 4165293142 Question Type : MCQ Option Shuffling : No Display Question Number : Yes**  
**Single Line Question Option : No Option Orientation : Vertical**

**Correct Marks : 1 Wrong Marks : 0**

Thecodont, diphyodont and heterodont teeth are characteristics of:

- a) Reptiles
- b) Aves
- c) Mammals
- d) Amphibians

**Question Number : 3 Question Id : 4165293143 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Single Line Question Option : No Option Orientation : Vertical**

**Correct Marks : 1 Wrong Marks : 0**

The activator of pepsinogen is:

- a) HCl
- b) Ca<sup>+2</sup>
- c) CO<sub>2</sub>
- d) Mn<sup>++</sup>

**Question Number : 4 Question Id : 4165293144 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Single Line Question Option : No Option Orientation : Vertical**

**Correct Marks : 1 Wrong Marks : 0**

A correct description of the movement of actin-myosin fibers is:

- a) Binding with ATP shortens the muscle fiber; reverse binding elongates the fiber.
- b) The energy from ATP/ADP + P is used to convert actin into myosin
- c) When ADP and Pi split, the actin-myosin bridge moves the filaments to shorten the muscle fiber.
- d) All the options

**Question Number : 5 Question Id : 4165293145 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Single Line Question Option : No Option Orientation : Vertical**

**Correct Marks : 1 Wrong Marks : 0**

Pyramids inside medulla are:

- a) Bean shaped
- b) Bell shaped
- c) Conical shaped
- d) Elongated

**Question Number : 6 Question Id : 4165293146 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Single Line Question Option : No Option Orientation : Vertical**

**Correct Marks : 1 Wrong Marks : 0**

Ventral to rectum is:

- a) Urinary bladder
- b) Urethra
- c) Ureter
- d) Prostate gland

**Question Number : 7 Question Id : 4165293147 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Single Line Question Option : No Option Orientation : Vertical**

**Correct Marks : 1 Wrong Marks : 0**

Renal artery and renal vein join kidney at:

- a) Renal pelvis
- b) Ureters
- c) Cortex
- d) Hilum

**Question Number : 8 Question Id : 4165293148 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Single Line Question Option : No Option Orientation : Vertical**

**Correct Marks : 1 Wrong Marks : 0**

Oxygen moves from the lungs into the bloodstream through:

- a) A large artery in the heart
- b) Capillaries in the lungs
- c) A tube in the lungs called the jugular vein
- d) Through pulononary vein

**Question Number : 9 Question Id : 4165293149 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Single Line Question Option : No Option Orientation : Vertical**

**Correct Marks : 1 Wrong Marks : 0**

Respiration is:

- a) Anabolic process
- b) Physical process
- c) Catabolic process
- d) None of the above

**Question Number : 10 Question Id : 4165293150 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Single Line Question Option : No Option Orientation : Vertical**

**Correct Marks : 1 Wrong Marks : 0**

The walls of the alveoli are composed of two types of cells, type I and type II. The function of type II is to

- 
- a) Secrete surfactant
  - b) Trap dust and other debris
  - c) Replace mucus in the alveoli
  - d) None of the above

**Question Number : 11 Question Id : 4165293151 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Single Line Question Option : No Option Orientation : Vertical**

**Correct Marks : 1 Wrong Marks : 0**

The oxygen dissociation curve is shifted to the right by an increase in -----.

- a) H<sup>+</sup> concentration
- b) PCO<sub>2</sub>
- c) Increase in temperature
- d) All of these

**Question Number : 12 Question Id : 4165293152 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Single Line Question Option : No Option Orientation : Vertical**

**Correct Marks : 1 Wrong Marks : 0**

The vessel that lies deepest in the body, with the thickest wall and carrying blood under greatest pressure is the -----.

- a) Artery
- b) Vein
- c) Capillary
- d) None

**Question Number : 13 Question Id : 4165293153 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Single Line Question Option : No Option Orientation : Vertical**

**Correct Marks : 1 Wrong Marks : 0**

The heart contains chambers are called the:

- a) Atria and ventricles
- b) Septa
- c) AV nodes
- d) Aorta

**Question Number : 14 Question Id : 4165293154 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Single Line Question Option : No Option Orientation : Vertical**

**Correct Marks : 1 Wrong Marks : 0**

The type of contraction characterized by a rapid, jerky response to a single stimulus is:

- a) Treppe
- b) Tonic
- c) Twitch
- d) Pain

**Question Number : 15 Question Id : 4165293155 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Single Line Question Option : No Option Orientation : Vertical**

**Correct Marks : 1 Wrong Marks : 0**

A special kind of protein containing iron is called as:

- a) Hormones
- b) Hemoglobin
- c) Red blood cell
- d) Haemocyanin

**Question Number : 16 Question Id : 4165293156 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Single Line Question Option : No Option Orientation : Vertical**

**Correct Marks : 1 Wrong Marks : 0**

If the erythrocytes of a person have both antigens A and B, his serum will have:

- a) Anti A antibodies
- b) Anti B antibodies
- c) Neither anti A nor anti B antibodies
- d) Both anti A and anti B antibodies

**Question Number : 17 Question Id : 4165293157 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Single Line Question Option : No Option Orientation : Vertical**

**Correct Marks : 1 Wrong Marks : 0**

The blood cells which play an important role in blood coagulation is:

- a) Erythrocytes
- b) Leucocytes
- c) Platelets
- d) Thrombin

**Question Number : 18 Question Id : 4165293158 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Single Line Question Option : No Option Orientation : Vertical**

**Correct Marks : 1 Wrong Marks : 0**

An overlap of actin and myosin filaments occurs in the:

- a) A Band
- b) I Band
- c) Z Line
- d) H zone

**Question Number : 19 Question Id : 4165293159 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Single Line Question Option : No Option Orientation : Vertical**

**Correct Marks : 1 Wrong Marks : 0**

The muscle action potential will cause the sarcoplasmic reticulum to release calcium ions when stimulated directly by the:

- a) Sarcolemma.
- b) Neuromuscular junction
- c) T tubule
- d) Sarcomere

**Question Number : 20 Question Id : 4165293160 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Single Line Question Option : No Option Orientation : Vertical**

**Correct Marks : 1 Wrong Marks : 0**

The functional division of the nervous system which is responsible for the physiological changes seen during exercise (e.g., increased heart rate and sweating) is:

- a) Somatic
- b) Autonomic
- c) Peripheral
- d) CNS

**Question Number : 21 Question Id : 4165293161 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Single Line Question Option : No Option Orientation : Vertical**

**Correct Marks : 1 Wrong Marks : 0**

A short gap in the myelin sheath around a nerve fibre is called:

- a) Dendrite
- b) Axon Terminal
- c) Node of Ranvier
- d) synapse

**Question Number : 22 Question Id : 4165293162 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Single Line Question Option : No Option Orientation : Vertical**

**Correct Marks : 1 Wrong Marks : 0**

Thyroid gland produces the hormone:

- a) Thyroxine
- b) Glucagon
- c) Insulin
- d) Parahormone

**Question Number : 23 Question Id : 4165293163 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Single Line Question Option : No Option Orientation : Vertical**

**Correct Marks : 1 Wrong Marks : 0**

\_\_\_\_\_ is essential for cortisol synthesis.

- a) Cholesterol
- b) Amino acids
- c) Selenium
- d) Iron

**Question Number : 24 Question Id : 4165293164 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Single Line Question Option : No Option Orientation : Vertical**

**Correct Marks : 1 Wrong Marks : 0**

Lesions to \_\_\_\_\_ part of the brain have been shown to cause appetite loss, resulting in a self-starvation syndrome.

- a) Lateral hypothalamus
- b) Cerebellum
- c) Amygdala
- d) Medulla oblongata

**Question Number : 25 Question Id : 4165293165 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Single Line Question Option : No Option Orientation : Vertical**

**Correct Marks : 1 Wrong Marks : 0**

Male androgen hormones are produced by:

- a) Sertoli cells
- b) Cells of Leydig
- c) Seminiferous tubules
- d) Prostate gland

**Question Number : 26 Question Id : 4165293166 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Single Line Question Option : No Option Orientation : Vertical**

**Correct Marks : 1 Wrong Marks : 0**

The oogonia begin meiosis in the female:

- a) At puberty
- b) Toward the end of gestation of female fetus
- c) At age 20
- d) After menstrual cycle

**Question Number : 27 Question Id : 4165293167 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Single Line Question Option : No Option Orientation : Vertical**

**Correct Marks : 1 Wrong Marks : 0**

The estrus period lasts in cow for:

- a) 12 -18 hours
- b) 8-10 hours
- c) 20-24 hours
- d) 10-12 hours

**Question Number : 28 Question Id : 4165293168 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Single Line Question Option : No Option Orientation : Vertical**

**Correct Marks : 1 Wrong Marks : 0**

The actual genetic part of sperm is its:

- a) Head
- b) Acrosome
- c) Tail
- d) Middle piece

**Question Number : 29 Question Id : 4165293169 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Single Line Question Option : No Option Orientation : Vertical**

**Correct Marks : 1 Wrong Marks : 0**

Number of spermatozoa that a single primary spermatocyte ultimately produces in spermatogenesis is:

- a) 8
- b) 6
- c) 4
- d) 2

**Question Number : 30 Question Id : 4165293170 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Single Line Question Option : No Option Orientation : Vertical**

**Correct Marks : 1 Wrong Marks : 0**

The size of the ovaries is:

- a) 3 c.m. long, 2 c.m. wide, 1c.m. thick
- b) 3 c.m. long, 3 c.m. wide, 1c.m. thick
- c) 3 c.m. long, 2 c.m. wide, 4c.m. thick
- d) 2 c.m. long, 1 c.m. wide, 1c.m. thick

**Question Number : 31 Question Id : 4165293171 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Single Line Question Option : No Option Orientation : Vertical**

**Correct Marks : 1 Wrong Marks : 0**

In frog, 4th cleavage is:

- a) Meridional
- b) Latitudinal
- c) Transverse
- d) Rotational

**Question Number : 32 Question Id : 4165293172 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Single Line Question Option : No Option Orientation : Vertical**

**Correct Marks : 1 Wrong Marks : 0**

Superficial and discoidal cleavages are the types of:

- a) Equal holoblastic
- b) Unequal holoblastic
- c) Meroblastic
- d) Meridional

**Question Number : 33 Question Id : 4165293173 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Single Line Question Option : No Option Orientation : Vertical**

**Correct Marks : 1 Wrong Marks : 0**

The embryonic membrane which forms the majority of the placenta is:

- a) Chorion
- b) Amnion
- c) Allantois
- d) Yolk sac

**Question Number : 34 Question Id : 4165293174 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Single Line Question Option : No Option Orientation : Vertical**

**Correct Marks : 1 Wrong Marks : 0**

Mammals known as \_\_\_\_\_ are oviparous.

- a) Marsupials
- b) Monotremes
- c) Placentals
- d) Eutherians

**Question Number : 35 Question Id : 4165293175 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Single Line Question Option : No Option Orientation : Vertical**

**Correct Marks : 1 Wrong Marks : 0**

$\text{CO}_2 + \text{H}_2\text{O} \rightarrow \text{H}_2\text{CO}_3 \rightarrow \text{H}^+ + \text{HCO}_3^-$ . What is true about this equation?

- a) This reaction happens in the direction indicated at the tissues and capillaries.
- b) The products of this reaction indicate an acid.
- c) This reaction is reversed at the capillaries and alveoli.
- d) All of the options

**Question Number : 36 Question Id : 4165293176 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Single Line Question Option : No Option Orientation : Vertical**

**Correct Marks : 1 Wrong Marks : 0**

During which respiration does the respiratory pigment hemoglobin combine with oxygen in the lungs?

- a) Aerobic cellular
- b) Exhalation
- c) Inspiration
- d) Pulmonary ventilation

**Question Number : 37 Question Id : 4165293177 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Single Line Question Option : No Option Orientation : Vertical**

**Correct Marks : 1 Wrong Marks : 0**

The percentage of formed elements in the blood is:

- a) 45%
- b) 50%
- c) 55%
- d) 40%

**Question Number : 38 Question Id : 4165293178 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Single Line Question Option : No Option Orientation : Vertical**

**Correct Marks : 1 Wrong Marks : 0**

The precursor of all lines of blood cells is the:

- a) Myeloblast
- b) Hemocytoblast
- c) Proerythroblast
- d) Stem cells

**Question Number : 39 Question Id : 4165293179 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Single Line Question Option : No Option Orientation : Vertical**

**Correct Marks : 1 Wrong Marks : 0**

\_\_\_\_\_ is a part of the peripheral nervous system.

- a) Parietal lobe
- b) Spinal cord
- c) Spinal nerves
- d) Brain

**Question Number : 40 Question Id : 4165293180 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Single Line Question Option : No Option Orientation : Vertical**

**Correct Marks : 1 Wrong Marks : 0**

The vitamin involved in blood clotting is:

- a) Vitamin A
- b) Vitamin K
- c) Vitamin E
- d) Vitamin D

**Question Number : 41 Question Id : 4165293181 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Single Line Question Option : No Option Orientation : Vertical**

**Correct Marks : 1 Wrong Marks : 0**

At the site of the injury, the \_\_\_\_\_ is released from the platelets and binds the platelets to the collagen fibers.

- a) von Willebrand factor
- b) Tissue factor
- c) Antihemophilic factor
- d) Stuart factor

**Question Number : 42 Question Id : 4165293182 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Single Line Question Option : No Option Orientation : Vertical**

**Correct Marks : 1 Wrong Marks : 0**

The normal platelet count is between \_\_\_\_\_ platelets per ML.

- a) 1,50,000 to 4,50,000
- b) 1,00,000 to 1,50,000
- c) 4,50,000 to 5,00,000
- d) 1,20,000 to 1,50,000

**Question Number : 43 Question Id : 4165293183 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Single Line Question Option : No Option Orientation : Vertical**

**Correct Marks : 1 Wrong Marks : 0**

The cell type responsible for skeletal muscle regeneration is:

- a) Myoepithelial cell
- b) Satellite cell
- c) Myofibroblast
- d) Osteoclast

**Question Number : 44 Question Id : 4165293184 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Single Line Question Option : No Option Orientation : Vertical**

**Correct Marks : 1 Wrong Marks : 0**

The connective tissue layer that bundles skeletal muscle fibers into fascicles is the:

- a) Perineurium
- b) Perimysium
- c) Epimysium
- d) None

**Question Number : 45 Question Id : 4165293185 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Single Line Question Option : No Option Orientation : Vertical**

**Correct Marks : 1 Wrong Marks : 0**

In skeletal muscle, a triad refers to :

- a) A T tubule sandwiched between 2 dilated cisternae of the sarcoplasmic reticulum
- b) A Z line flanked by 2 A bands
- c) An A band flanked by 2 I bands
- d) None of these options

**Question Number : 46 Question Id : 4165293186 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Single Line Question Option : No Option Orientation : Vertical**

**Correct Marks : 1 Wrong Marks : 0**

The structure which predominates in the white matter of the brain is:

- a) Myelinated axons
- b) Neuronal cell bodies
- c) Ganglia of the parasympathetic nerves
- d) Non- Myelinated axons

**Question Number : 47 Question Id : 4165293187 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Single Line Question Option : No Option Orientation : Vertical**

**Correct Marks : 1 Wrong Marks : 0**

The part of a neuron which transmits an electrical signal to a target cell is:

- a) Dendrites
- b) Soma
- c) Axon
- d) All of the above

**Question Number : 48 Question Id : 4165293188 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Single Line Question Option : No Option Orientation : Vertical**

**Correct Marks : 1 Wrong Marks : 0**

A short gap in the myelin sheath around a nerve fibre is called:

- a) Dendrite
- b) Axon Terminal
- c) Node of Ranvier
- d) Synapse

**Question Number : 49 Question Id : 4165293189 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Single Line Question Option : No Option Orientation : Vertical**

**Correct Marks : 1 Wrong Marks : 0**

At a neuromuscular junction, synaptic vesicles discharge:

- a) Acetylcholine
- b) Epinephrine
- c) Adrenaline
- d) Insulin

**Question Number : 50 Question Id : 4165293190 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Single Line Question Option : No Option Orientation : Vertical**

**Correct Marks : 1 Wrong Marks : 0**

Hormones that are synthesized from cholesterol precursor are called:

- a) Protein
- b) Amino acid derivative
- c) Steroids
- d) All of the options

**Question Number : 51 Question Id : 4165293191 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Single Line Question Option : No Option Orientation : Vertical**

**Correct Marks : 1 Wrong Marks : 0**

This type of hormone must bind to a receptor protein on the plasma membrane of the cell:

- a) Water soluble
- b) Lipid soluble
- c) Steroid
- d) Protein

**Question Number : 52 Question Id : 4165293192 Question Type : MCQ Option Shuffling : No Display Question Number : Yes**  
**Single Line Question Option : No Option Orientation : Vertical**

**Correct Marks : 1 Wrong Marks : 0**

The anterior pituitary secretes:

- a) Oxytocin
- b) Calcitonin
- c) TSH
- d) Estrogen

**Question Number : 53 Question Id : 4165293193 Question Type : MCQ Option Shuffling : No Display Question Number : Yes**  
**Single Line Question Option : No Option Orientation : Vertical**

**Correct Marks : 1 Wrong Marks : 0**

Pancreas produces:

- a) Epinephrine
- b) Testosterone
- c) Insulin
- d) Insulin and glucagon

**Question Number : 54 Question Id : 4165293194 Question Type : MCQ Option Shuffling : No Display Question Number : Yes**  
**Single Line Question Option : No Option Orientation : Vertical**

**Correct Marks : 1 Wrong Marks : 0**

The receptors for thyroid hormones are located on:

- a) Plasma membrane
- b) Nucleus membrane
- c) Cytosol
- d) No specific location

**Question Number : 55 Question Id : 4165293195 Question Type : MCQ Option Shuffling : No Display Question Number : Yes**  
**Single Line Question Option : No Option Orientation : Vertical**

**Correct Marks : 1 Wrong Marks : 0**

In Hashimoto's thyroiditis the level of thyroid hormones:

- a) Unchanged
- b) Increases
- c) Decreases
- d) First decreases then increases

**Question Number : 56 Question Id : 4165293196 Question Type : MCQ Option Shuffling : No Display Question Number : Yes**  
**Single Line Question Option : No Option Orientation : Vertical**

**Correct Marks : 1 Wrong Marks : 0**

The shape of the Adrenal glands is:

- a) Butterfly shaped
- b) Bean shaped
- c) Pear shaped
- d) Apple shaped

**Question Number : 57 Question Id : 4165293197 Question Type : MCQ Option Shuffling : No Display Question Number : Yes**  
**Single Line Question Option : No Option Orientation : Vertical**

**Correct Marks : 1 Wrong Marks : 0**

The receptors for glucocorticoids are located on:

- a) Plasma membrane
- b) Nucleus
- c) Cytosol
- d) None of the options

**Question Number : 58 Question Id : 4165293198 Question Type : MCQ Option Shuffling : No Display Question Number : Yes**  
**Single Line Question Option : No Option Orientation : Vertical**

**Correct Marks : 1 Wrong Marks : 0**

Addison's disease develops when the adrenal cortex produces:

- a) Normal levels of cortisol and aldosterone
- b) Less amounts of cortisol and aldosterone
- c) Higher amounts of cortisol and aldosterone
- d) Higher amounts of aldosterone

**Question Number : 59 Question Id : 4165293199 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Single Line Question Option : No Option Orientation : Vertical**

**Correct Marks : 1 Wrong Marks : 0**

In Cushing's syndrome serum levels of cortisol and aldosterone are:

- a) Normal
- b) Less
- c) Excessively high
- d) No change

**Question Number : 60 Question Id : 4165293200 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Single Line Question Option : No Option Orientation : Vertical**

**Correct Marks : 1 Wrong Marks : 0**

The biochemical nature of pancreatic hormones is:

- a) Protein
- b) Amino acid-derived
- c) Steroids
- d) Amine

**Question Number : 61 Question Id : 4165293201 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Single Line Question Option : No Option Orientation : Vertical**

**Correct Marks : 1 Wrong Marks : 0**

\_\_\_\_\_ is the most important for pancreas to neutralising chime.

- a) Secretin
- b) Acetylcholine
- c) CCK
- d) Pancreozymin

**Question Number : 62 Question Id : 4165293202 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Single Line Question Option : No Option Orientation : Vertical**

**Correct Marks : 1 Wrong Marks : 0**

\_\_\_\_\_ is not a hormone of the anterior pituitary gland.

- a) Growth hormone
- b) Prolactin
- c) Oxytoxin
- d) TSH

**Question Number : 63 Question Id : 4165293203 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Single Line Question Option : No Option Orientation : Vertical**

**Correct Marks : 1 Wrong Marks : 0**

\_\_\_\_\_ is not a function of oxytoxin.

- a) Cause morning sickness
- b) Helps contract uterus smooth muscle
- c) Secrete milk after birth
- d) Help in parturition

**Question Number : 64 Question Id : 4165293204 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Single Line Question Option : No Option Orientation : Vertical**

**Correct Marks : 1 Wrong Marks : 0**

The Pituitary Gland is the size of a:

- a) Pea
- b) Cantaloupe
- c) Grape
- d) Almond

**Question Number : 65 Question Id : 4165293205 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Single Line Question Option : No Option Orientation : Vertical**

**Correct Marks : 1 Wrong Marks : 0**

Hunger center is:

- a) Medulla oblongata
- b) Hypothalamus
- c) Pons varoli
- d) Thalamus

**Question Number : 66 Question Id : 4165293206 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Single Line Question Option : No Option Orientation : Vertical**

**Correct Marks : 1 Wrong Marks : 0**

Parathyroid tetany is caused due to:

- a) Hyperactivity of parathyroid
- b) Hypoactivity of the thyroid
- c) Hyperactivity of parathyroid and Hypoactivity of thyroid
- d) None of the options

**Question Number : 67 Question Id : 4165293207 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Single Line Question Option : No Option Orientation : Vertical**

**Correct Marks : 1 Wrong Marks : 0**

Secretion of many anterior pituitary hormones is controlled by other hormones from the:

- a) Pancreatic islets
- b) Thyroid gland
- c) Hypothalamus
- d) Medulla oblongata

**Question Number : 68 Question Id : 4165293208 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Single Line Question Option : No Option Orientation : Vertical**

**Correct Marks : 1 Wrong Marks : 0**

Which is the phase of the estrous cycle:

- a) Follicular phase
- b) Luteal phase
- c) Both follicular and luteal phase
- d) None of the options

**Question Number : 69 Question Id : 4165293209 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Single Line Question Option : No Option Orientation : Vertical**

**Correct Marks : 1 Wrong Marks : 0**

The main hormone which is associated with luteal phase is:

- a) Progesterone
- b) Estradiol
- c) Testosterone
- d) Estrone

**Question Number : 70 Question Id : 4165293210 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Single Line Question Option : No Option Orientation : Vertical**

**Correct Marks : 1 Wrong Marks : 0**

The building-up phase is:

- a) Anestrus
- b) Proestrus
- c) Metestrus
- d) Estrus

**Question Number : 71 Question Id : 4165293211 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Single Line Question Option : No Option Orientation : Vertical**

**Correct Marks : 1 Wrong Marks : 0**

Oxygen passes into blood from the alveoli by a process known as:

- a) Osmosis
- b) Diffusion
- c) Pinocytosis
- d) Active transport

**Question Number : 72 Question Id : 4165293212 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Single Line Question Option : No Option Orientation : Vertical**

**Correct Marks : 1 Wrong Marks : 0**

The hyperpolarization phase of the action potential:

- a) Is due to the opening of voltage-gated  $\text{Cl}^-$  channels
- b) Is due to the prolonged opening of voltage-gated  $\text{K}^+$  channels
- c) Is due to the closure of resting  $\text{Na}^+$  channels
- d) Is due to the opening of resting  $\text{Na}^+$  channels

**Question Number : 73 Question Id : 4165293213 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Single Line Question Option : No Option Orientation : Vertical**

**Correct Marks : 1 Wrong Marks : 0**

The urge to inhale results from:

- a) Rising  $\text{PCO}_2$
- b) Falling  $\text{PCO}_2$
- c) Rising  $\text{PO}_2$
- d) Falling  $\text{PO}_2$

**Question Number : 74 Question Id : 4165293214 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Single Line Question Option : No Option Orientation : Vertical**

**Correct Marks : 1 Wrong Marks : 0**

During spermatogenesis \_\_\_\_\_ occurs

- a) Mitosis
- b) Meiosis
- c) Mitosis and Meiosis
- d) Amitosis

**Question Number : 75 Question Id : 4165293215 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Single Line Question Option : No Option Orientation : Vertical**

**Correct Marks : 1 Wrong Marks : 0**

The surrounding layer of the ovary is called:

- a) Germinal epithelium
- b) Tunica albuginea
- c) Stroma
- d) Follicular lining

**Question Number : 76 Question Id : 4165293216 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Single Line Question Option : No Option Orientation : Vertical**

**Correct Marks : 1 Wrong Marks : 0**

Ovarian stroma is composed by:

- a) Cortex
- b) Medulla
- c) Both Cortex and Medulla
- d) Follicles

**Question Number : 77 Question Id : 4165293217 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Single Line Question Option : No Option Orientation : Vertical**

**Correct Marks : 1 Wrong Marks : 0**

The plane which bisects the egg at right angles to the median axis is called:

- a) Meridional
- b) Latitudinal
- c) Equatorial
- d) Longitudinal

**Question Number : 78 Question Id : 4165293218 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Single Line Question Option : No Option Orientation : Vertical**

**Correct Marks : 1 Wrong Marks : 0**

An example of holoblastic unequal cleavage is the egg of:

- a) Hen
- b) Frog
- c) Fish
- d) Insect

**Question Number : 79 Question Id : 4165293219 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Single Line Question Option : No Option Orientation : Vertical**

**Correct Marks : 1 Wrong Marks : 0**

Which of the choices is the correct order of embryonic stages? Blastula, Zygote, Morula, Gastrula

- a) 3,2,1,4
- b) 2,4,3,1
- c) 2,3,1,4
- d) 1,2,3,4

**Question Number : 80 Question Id : 4165293220 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Single Line Question Option : No Option Orientation : Vertical**

**Correct Marks : 1 Wrong Marks : 0**

The placenta functions as an:

- a) Excretory organ
- b) Respiratory organ
- c) Endocrine organ
- d) All of the options

**Question Number : 81 Question Id : 4165293221 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Single Line Question Option : No Option Orientation : Vertical**

**Correct Marks : 1 Wrong Marks : 0**

Neuralation occurs during human pregnancy in the:

- a) First week
- b) Second week
- c) Third week
- d) Fourth week

**Question Number : 82 Question Id : 4165293222 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Single Line Question Option : No Option Orientation : Vertical**

**Correct Marks : 1 Wrong Marks : 0**

The yolk sac in placental mammals is the source of stem cells that give rise to:

- a) Yolk
- b) Adipose cells
- c) Blood
- d) Membranes

**Question Number : 83 Question Id : 4165293223 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Single Line Question Option : No Option Orientation : Vertical**

**Correct Marks : 1 Wrong Marks : 0**

The three pairs of multicellular salivary glands that secrete into the oral cavity are the \_\_\_\_\_ glands.

- a) Alpha, beta, and gamma
- b) Parotid, submandibular, and sublingual
- c) Palatine, lingual, and pharyngeal
- d) Parotid, lingual, pharyngeal

**Question Number : 84 Question Id : 4165293224 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Single Line Question Option : No Option Orientation : Vertical**

**Correct Marks : 1 Wrong Marks : 0**

Epithelial cells of the intestine involved in food absorption have on their surface:

- a) Pinocytic vesicles
- b) Zymogen granules
- c) Microvilli
- d) Lacteals

**Question Number : 85 Question Id : 4165293225 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Single Line Question Option : No Option Orientation : Vertical**

**Correct Marks : 1 Wrong Marks : 0**

Hepato-pancreatic duct opens into the duodenum and carries:

- a) Bile
- b) Pancreatic juice
- c) Pancreatic Juice & Bile
- d) None of the options

**Question Number : 86 Question Id : 4165293226 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Single Line Question Option : No Option Orientation : Vertical**

**Correct Marks : 1 Wrong Marks : 0**

Renal artery and renal vein join kidney at:

- a) Renal pelvis
- b) Ureters
- c) Cortex
- d) Hilum

**Question Number : 87 Question Id : 4165293227 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Single Line Question Option : No Option Orientation : Vertical**

**Correct Marks : 1 Wrong Marks : 0**

The heart lies within the pericardium, a membranous sac that secretes a small quantity of:

- a) Blood
- b) Lubricating liquid
- c) Glucose
- d) Pericardial fluid

**Question Number : 88 Question Id : 4165293228 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Single Line Question Option : No Option Orientation : Vertical**

**Correct Marks : 1 Wrong Marks : 0**

The rarest ABO blood type is:

- a) B negative
- b) O negative
- c) AB positive
- d) O positive

**Question Number : 89 Question Id : 4165293229 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Single Line Question Option : No Option Orientation : Vertical**

**Correct Marks : 1 Wrong Marks : 0**

In man the zymogen or chief cells are mainly found in:

- a) Cardiac part of stomach
- b) Pyloric part of stomach
- c) Fundic part of stomach
- d) None of the options

**Question Number : 90 Question Id : 4165293230 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Single Line Question Option : No Option Orientation : Vertical**

**Correct Marks : 1 Wrong Marks : 0**

Calcium ions bind to:

- a) Tropomyosin
- b) Troponin
- c) Actin
- d) Myosin

**Question Number : 91 Question Id : 4165293231 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Single Line Question Option : No Option Orientation : Vertical**

**Correct Marks : 1 Wrong Marks : 0**

\_\_\_\_\_ has the biggest effect on the hormones of the pituitary gland.

- a) Pregnancy
- b) Puberty
- c) Fetal development
- d) All of the options

**Question Number : 92 Question Id : 4165293232 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Single Line Question Option : No Option Orientation : Vertical**

**Correct Marks : 1 Wrong Marks : 0**

Which of the following statements is (are) true about hemoglobin?

- a) Hemoglobin functions to carry oxygen from the lungs to the tissues and hydrogen ions from the tissues to the lungs.
- b) Hemoglobin binds to bicarbonate ions.
- c) Hemoglobin is used to carry oxygen to the tissues.
- d) It contains heme but does not carry oxygen

**Question Number : 93 Question Id : 4165293233 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Single Line Question Option : No Option Orientation : Vertical**

**Correct Marks : 1 Wrong Marks : 0**

The 'decidua basalis' is:

- a) A component of the umbilical cord
- b) The maternal portion of the placenta
- c) The embryonic concepts
- d) the embryonic portion of placenta

**Question Number : 94 Question Id : 4165293234 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Single Line Question Option : No Option Orientation : Vertical**

**Correct Marks : 1 Wrong Marks : 0**

The foramen ovale in the fetal heart is located in the:

- a) Right atrium
- b) Interventricular septum
- c) Interatrial septum
- d) Left atrium

**Question Number : 95 Question Id : 4165293235 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Single Line Question Option : No Option Orientation : Vertical**

**Correct Marks : 1 Wrong Marks : 0**

The enzyme which requires adenosine triphosphates (ATP) to mediate its reactions is:

- a) Ornithine transcarbamoylase
- b) Argino succinate lyase.
- c) Argino succinate synthetase
- d) Citrate lyase

**Question Number : 96 Question Id : 4165293236 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Single Line Question Option : No Option Orientation : Vertical**

**Correct Marks : 1 Wrong Marks : 0**

The life span of RBC is:

- a) 100 days
- b) 110 days
- c) 120 days
- d) 200 days

**Question Number : 97 Question Id : 4165293237 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Single Line Question Option : No Option Orientation : Vertical**

**Correct Marks : 1 Wrong Marks : 0**

In mammals milk is digested by the action of:

- a) Amylase
- b) Intestinal bacteria
- c) Rennin
- d) Ca<sup>++</sup>

**Question Number : 98 Question Id : 4165293238 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Single Line Question Option : No Option Orientation : Vertical**

**Correct Marks : 1 Wrong Marks : 0**

Absorption mainly occurs in:

- a) Small intestine
- b) Large intestine
- c) Stomach
- d) Rectum

**Question Number : 99 Question Id : 4165293239 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Single Line Question Option : No Option Orientation : Vertical**

**Correct Marks : 1 Wrong Marks : 0**

Which of the following maintains the patency (openness) of the trachea? Surface tension of water

- a) Pseudostratified ciliated epithelium
- b) Cartilage rings
- c) Squamous epithelium
- d) Surface tension of water

**Question Number : 100 Question Id : 4165293240 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Single Line Question Option : No Option Orientation : Vertical**

**Correct Marks : 1 Wrong Marks : 0**

Carbon dioxide is converted into carbonic acid in the cytoplasm of red blood cells by the enzyme

- a) Hemoglobin
- b) Carbonic anhydrase
- c) Oxyhemoglobin
- d) Carboxyhaemoglobin