

# QAD Series

## Human Systems & Physiology

- What is true about cleavage in fertilized egg in humans?**
  - it starts while the egg is in fallopian tube.
  - it starts when egg reaches uterus
  - it is meroblastic
  - it is identical to normal mitosis.
- Which set of structures is ectodermal in origin?**
  - brain, liver, gills
  - spinal cord, heart, epidermis
  - epidermis, brain, retina
  - dermis, lungs, nerves.
- If egg is not fertilized, the corpus luteum :**
  - reduces secretion of progesterone
  - changes in corpus albicans
  - enhances secretion of progesterone
  - none of these.
- Fertilizin is a chemical substance produced from :**
  - acrosome
  - polar bodies
  - middle piece of sperm
  - mature eggs.
- Correct sequence of cell stages in spermatogenesis is :**
  - spermatogonia, spermatocytes, spermatids, spermatozoons.
  - spermatocytes, spermatogonia, spermatids, spermatozoons
  - spermatogonia, spermatids, spermatocytes, spermatozoons
  - spermatocytes, spermatids, spermatogonia, spermatozoons
- How many sperms and ova will be produced from 25 primary spermatocytes and 25 primary oocytes respectively?**
  - 100 sperms and 50 ova
  - 100 sperms and 25 ova
  - 50 sperms and 25 ova
  - 100 sperms and 100 ova.
- In human adults deformation of body parts & enlargement of some bones takes place due to the**
  - Over secretion of ant. pituitary
  - Over secretion of post pituitary
  - Hyposecretion of thyroxine
  - None
- Ant. lobe of pituitary secretes**
  - TSH, ADH & prolactin
  - LH, FSH & a growth hormone
  - ACTH, TSH & oxytocin
  - STH, GH & antidiuretic hormone.
- Which endocrine gland stores its secretion in an extracellular space before discharging it into the blood?**
  - Thyroid
  - Adrenal
  - Pancreas
  - Testis
- How many cells are formed after 5th cleavage in frog's zygote?**
  - 8
  - 16
  - 32
  - Several
- Reproduction in larval stage is called**
  - Paedogenesis
  - Neoteny
  - Parthenogenesis
  - None of these.
- Hypophysectomy means removal of:**
  - Pituitary gland
  - Hypothalamus
  - Pineal gland
  - Parathyroid gland
- Chromaffin cells are found in :**
  - Thyroid
  - Adrenal cortex
  - Adrenal medulla
  - Pancreas
- The innermost zone of adrenal cortex is called:**
  - Zona reticularis
  - Zona glomerulosa
  - Zona fasciculata
  - Zona pellucida
- Which of the following is known as 'salt retaining hormone'?**
  - Androgens
  - Aldosterone
  - ADH
  - Adrenaline.
- Vegetal hemisphere in frog's egg in water remains :**
  - downwards
  - upwards
  - directed towards left
  - directed towards right.
- When some hormone work together to control a process, this is called?**
  - Antagonism
  - Feedback system
  - Factor hypothesis
  - Synergism
- Which of the following set of hormone is produced by single endocrine gland?**
  - oxytocin, prolactin & ACTH
  - Oxytocin, vaspressin & aldosterone
  - Adrenaline, noradrenaline & ICSH
  - Thyroxine, secretin & ACTH
- Epinephrine is secreted by which one of the following regions of the adrenal gland?**
  - zona glomerulosa
  - zona fasciculata
  - zone reticularis
  - none
- When a normal man's heart is injected with physiological concentration of adrenaline it shows**
  - decreased rate
  - sustained increased rate
  - First increased rate, then normal rate
  - systolic rate
- When blastopore forms anus, then such animals are called :**
  - Proterostomes
  - Deuterostomes
  - Chordates
  - All of above
- Prepuccial glands secrete**
  - Semen
  - Smegma
  - Cerumen
  - Sebum
- Normal functioning of sex-glands is regulated by :**
  - Tocopherol
  - Calciferol
  - Phylloquinone
  - Pyridoxine
- Hassall's corpuscles, which are phagocytic in function are found in :**
  - Thyroid
  - Pituitary
  - Thymus
  - Pineal
- Midgets arise due to the deficiency of :**
  - Pituitary
  - Thyroid
  - Pancreas
  - Adrenal
- Which of the following is known as 'vestigial hormone' in man?**
  - LH
  - LTH
  - MSH
  - FSH
- Whose secretion is not under control of pituitary?**
  - Thyroid
  - Adrenal cortex
  - Adrenal medulla
  - Ovary
- Both ectoderm and mesoderm contribute in the development of :**
  - Thyroid
  - Pancreas
  - Adrenal
  - Pituitary
- Adrenal gland has two parts, called cortex & medulla, which are**
  - Similar in structure but different in origin
  - Different in origin & structure
  - Similar in origin but different in function
  - Similar in origin but different in structure & function.
- The broad end of the malleus is jointed with the**
  - Tympanic membrane
  - Incus
  - Stapes
  - None
- The cranial nerves which control the movement of eyeball are**
  - 2, 3 and 5
  - 3, 4 and 6
  - 4, 6 and 7
  - 5, 8 and 9
- Which of the following is not a cranial nerve in frog?**
  - Vagus
  - Hypoglossal
  - Glossopharyngeal
  - None of these
- Afferent nerve fibres conduct impulse from:**
  - Effector to receptor
  - Receptor to CNS
  - CNS to receptor
  - CNS to effector
- In the spinal cord, white matter is:**
  - Around the grey matter
  - Surrounded by grey matter
  - Mixed with grey matter
  - Absent

35. **Correct hormonal sequence in the increase of menstruation is**  
 a) Estrogen, FSH & progesterone  
 b) Estrogen, progesterone & FSH  
 c) FSH, progesterone & estrogen  
 d) FSH, estrogen & progesterone
36. **Bones become soft during**  
 a) Hypoparathyroidism  
 b) Hyperparathyroidism  
 c) Hyperthyroidism  
 d) Hypothyroidism
37. **The part of the eye of man which acts like shutters of a photographic camera is**  
 a) pupil  
 b) iris  
 c) lids  
 d) cornea
38. **Which of the lingual papilla are found as inverted 'V' shaped**  
 a) Filiform  
 b) Fungiform  
 c) Circumvallate  
 d) Foliate
39. **Which of the following is not a part of forebrain?**  
 a) Rhinencephalon  
 b) Rhombencephalon  
 c) Diencephalon  
 d) Telencephalon
40. **It is located in:**  
 a) Spinal cord  
 b) Forebrain  
 c) Midbrain  
 d) Hindbrain
41. **Vertebral column of mammals is divided into:**  
 a) Two regions  
 b) Seven regions  
 c) Five regions  
 d) Variable no. of regions
42. **The eyeball is moved in the orbit by**  
 a) The ciliary muscles  
 b) The ciliary body along with suspensory ligaments  
 c) Four rectus muscles and two oblique muscles.  
 d) Two rectus and four oblique muscles.
43. **The opposite of anaemia is called as**  
 a) Megaloblastic anaemia  
 b) Leukopenia  
 c) Leukaemia  
 d) Polycythemia
44. **Schneiderian membrane is concerned to**  
 a) Taste  
 b) Smell  
 c) Hearing  
 d) Vision
45. **Pulse pressure in a normal adult healthy person is about**  
 a) 40 mm Hg  
 b) 80 mm Hg  
 c) 120 mm Hg  
 d) 200 mm Hg
46. **Which of the following takes maximum time?**  
 a) Auricular systole  
 b) Auricular diastole  
 c) Ventricular systole  
 d) Ventricular diastole
47. **How many atoms of oxygen can be associated with a molecule of haemoglobin in man?**  
 a) 6  
 b) 8  
 c) 4  
 d) 2
48. **The hormone secretin stimulates the secretion of**  
 a) Gastric juice  
 b) Lactic acid  
 c) Pancreatic juice  
 d) Bile juice
49. **The term 'phrenic' is related to**  
 a) Urinary bladder  
 b) Blood vessels  
 c) Colon & rectum  
 d) Diaphragm
50. **Pulse can be generally detected from the**  
 a) Radial artery  
 b) Femoral artery  
 c) Ulnare Artery  
 d) A superficial vein
51. **Which one of the following statement is correct about the frequency of heart sounds?**  
 a) LUBB > DUP  
 b) LUBB < DUP  
 c) LUBB = DUP  
 d) None of the above
52. **Hardening of arteries due to the deposition of calcium & fibrous tissue within their walls is called**  
 a) Arteriosclerosis  
 b) Atherosclerosis  
 c) Myocardial ischemia  
 d) Myocardial infarction.
53. **In man, which of the following structure is analogous to the spiracles of cockroach:**  
 a) Alveoli  
 b) Lungs  
 c) Bronchioles  
 d) Nostrils
54. **Foramen ovalis is found between**  
 a) Right & left auricle  
 b) Right & left ventricle  
 c) Right Auricle & ventricle  
 d) Left Auricle & ventricle
55. **Frenulum is :**  
 a) Adenoid present on pharyngeal wall  
 b) Tonsil found on lateral walls of soft palate  
 c) V-shaped sulcus dividing tongue into pharyngeal and oral parts  
 d) Fold attaching tongue with floor of buccal cavity
56. **Duct of Rivinus is**  
 a) Duct of parotid gland  
 b) Duct of submaxillary  
 c) Duct of zygomatic  
 d) Duct of sublingual
57. **Which of the following chamber of stomach joins the duodenum?**  
 a) Rumen  
 b) Reticulum  
 c) Omasum  
 d) Abomasum
58. **One example of PEM is**  
 a) Cheilosis  
 b) Anaemia  
 c) Pellagra  
 d) None
59. **The ratio of the heart beats per minute respectively of frog and man can be represented as follows :**  
 a) 5 : 6  
 b) 8 : 9  
 c) 10 : 12  
 d) 12 : 15
60. **Ergocalciferol is**  
 a) Vitamin D<sub>2</sub>  
 b) Vitamin D<sub>3</sub>  
 c) Vitamin D  
 d) A type of fungal toxin
61. **Number of incisors, canines, premolars & molars in each jaw of man is :**  
 a) 8, 4, 8, 12  
 b) 4, 2, 5, 6  
 c) 4, 2, 4, 6  
 d) 4, 4, 6, 4
62. **The correct sequence of the last 4 stages in Krebs cycle is**  
 a) Malic acid, succinic acid, fumaric acid, oxalo-acetic acid  
 b) S.A., FA, MA, OA  
 c) MA, FA, SA, OA  
 d) SA, MA, FA, OA
63. **Algesic receptors are associated with**  
 a) Distance  
 b) Vibrations  
 c) Cold  
 d) Pain
64. **Cystitis is inflammation of**  
 a) Gall bladder  
 b) Pancreas  
 c) Urinary bladder  
 d) Kidney
65. **Glands of Bowman are**  
 a) Olfactory glands  
 b) Taste glands  
 c) kidney glands  
 d) Auditory glands
66. **Gland of 4S is**  
 a) Salivary gland  
 b) Adrenal gland  
 c) Gonads  
 d) Swammerdam gland
67. **Strongest muscle of body is**  
 a) Gluteus maximus  
 b) Stapedius  
 c) Sartorius  
 d) Masseter
68. **Who first reported the role of thyroid in the metamorphosis of Amphibia?**  
 a) Kendall  
 b) Bayliss and Starling  
 c) Gudernatsch  
 d) Sanger
69. **Trochanter is related to**  
 a) Femur  
 b) Tibia  
 c) Radius  
 d) Ulna
70. **An immune disease in which the body destroys the ill-functioning thyroid gland itself is**  
 a) Simmond's disease  
 b) Myxoedema  
 c) Hashimoto's disease  
 d) Cretinism
71. **The helicotrema is the communicating link between the**  
 a) Sacculus & Cochlea  
 b) Tympanic & vestibular canals  
 c) Vestibular & median canals  
 d) Sacculus & utriculus
72. **Cheek bones of human are**  
 a) Palatines  
 b) Zygomatics  
 c) Lacrimals  
 d) Occipital
73. **Number of cervical vertebrae and cervical spinal nerves in humans are**  
 a) Both 7 pairs  
 b) both 8 pairs  
 c) Only 7 and 8 pairs respectively  
 d) Only 8 & 7 pairs respectively
74. **Ejaculation of semen and erection of penis are due to**  
 a) Both sympathetic system  
 b) Both parasympathetic system  
 c) Sympathetic and parasympathetic system respectively  
 d) Parasympathetic and sympathetic system respectively