

**MBBS: Physiology Paper 2 Part 1.****ABVMUUP****Paper Code: 2112130002**

1. Describe cardiac cycle and its events with diagram (20 marks)
2. Describe in Brief (4x5 = 20 marks)
- (a) Disorder of growth Hormones IC
- (c) Cardiac output & its regulations
- (b) Hormones involved in blood sugar regulation IC
- (d) Mechanism of action of Oral contraceptive pills IC
3. Multiple choice questions (One mark per question: total 10 marks)
- (a) Most potent vasopressor is
- A) Angiotensin II B) Nor-epinephrine C) Aldosterone D) Cortisol
- (b) Dilatation of capillaries result due to
- A) 5-HT B) Nor-epinephrine C) Low temperature D) Axon reflex
- (c) Heart rate is maximum in normal
- A) Foetus B) New born C) Adult D) Old age
- (d) Thyroid hormones belongs to which class
- A) Steroid B) Proteins C) Polypeptides D) Amino acid derivative
- (e) Weight of normal pituitary gland is
- A) 0.5 gm B) 1 gm C) 1.5 gm D) 2 gm
- (f) Acromegaly is characterized by
- A) Prognathism B) Acromegalic facies C) Hypertrophy of body soft tissues D) All of above
- (g) Calcitonin is produced by
- A) Thyroid gland B) Parathyroid gland C) Adrenal gland D) Pituitary gland
- (h) The thyroid hormone mainly effective at tissue level
- A) Free T3 B) Free T4 C) Both are equally effective D) MIT
- (i) Oogonia is derived from
- A) Amnion B) Yolk sac C) Stroma of ovary D) Germinal epithelium
- (j) PH range of semen is
- A) 6.2-6.5 B) 7.0-7.3 C) 7.3-7.5 D) 7.5-7.9

28 Jan 2022

Max marks 50





1. Describe the image formation in eye and various type of refractory errors & their corrections (20)
2. Describe in brief (5x4=20)
- (a) Parkinson disease
 - (b) Conductive deafness
 - (c) Aphasia
 - (d) Brown- sequard syndrome
3. Multiple choice questions (Each question carries one mark: Total 10 marks)
- (a) Which is NOT an EEG rhythm.
 - A) Alpha
 - B) Beta
 - C) Gamma
 - D) Delta
 - (b) Basal ganglia includes
 - A) Putamen
 - B) Caudate
 - C) Globus pallidus
 - D) All of above
 - (c) Neurotransmitter in Nigrostriatal pathways, is
 - ☒ A) Dopamine
 - B) GABA
 - C) Acetyl choline
 - D) Nor epinephrine
 - (d) The cells in cerebral cortex are organized in how many layers
 - A) 2
 - B) 4
 - C) 6
 - D) 8
 - (e) Total number of Brodmann's area in each cerebral hemisphere, is
 - A) 13
 - B) 24
 - C) 32
 - D) 47
 - (f) Number of receptor cells contained within olfactory mucous membrane
 - A) 1-2 million
 - B) 3-5 million
 - C) 5-10 million
 - D) 10-20 million
 - (g) Smell receptors are located in
 - A) Lower 1/3 of nasal mucosa
 - B) Upper 1/3 of nasal mucosa
 - C) Olfactory bulb
 - D) Cribriform plate
 - (h) Foot plate of stapes covers
 - A) Round window
 - B) Oval window
 - C) Tympanic membrane
 - D) Basilar membrane
 - (i) Site where endolymph is seen
 - A) Scala vestibule
 - B) Scala media
 - C) Tunnel of Corti
 - D) Scala tympani
 - (j) Photo receptors in eye refers to
 - A) Rods only
 - B) Cones only
 - C) Both of above
 - D) None of above

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Max marks 50