

Question Paper

Exam Date & Time: 07-May-2018 (09:30 AM - 12:30 PM)



MANIPAL ACADEMY OF HIGHER EDUCATION

MANIPAL COLLEGE OF PHARMACEUTICAL SCIENCES

END SEMESTER THEORY EXAMINATIONS- MAY 2018

PROGRAM: BPHARM SEMESTER 2

DATE: 07/05/2018

TIME: 9:30 AM - 12:30 PM

Human Anatomy and Physiology-II [PHA-BP201T]

Marks: 75

Duration: 180 mins.

I Multiple Choice Questions (MCQs)

Answer all the questions.

Section Duration: 30 mins

- 1) Epidural space is between
[Duramater and wall of vertebral canal](#) [Duramater and arachnoid mater](#) [Arachnoid mater and piamater](#) [Duramater and piamater](#) (1)
- 2) Acetylcholine acts on
[Muscarinic receptor](#) [Alpha receptor](#) [Beta receptor](#) [GABA](#) (1)
- 3) Papillae forming mushroom shaped elevations scattered over entire surface of tongue
[Foliate](#) [Fungiform](#) [Vallate](#) [Filiform](#) (1)
- 4) The pattern of inspiration and expiration established by respiratory centre in
[Cerebellum](#) [Cerebrum](#) [Medulla oblongata](#) [Thalamus](#) (1)
- 5) Substrate for renin is
[Angiotensinogen](#) [Angiotensin](#) [Angiotensin II](#) [Aldosterone](#) (1)
- 6) Which of the following is a lipid-soluble hormone
[Steroid hormones](#) [Histamine](#) [Dopamine](#) [Oxytocin](#) (1)
- 7) If the secondary oocyte is fertilized and begins to divide, corpus luteum is rescued from degeneration by
[hCG](#) [hGH](#) [GnRH](#) [TSH](#) (1)
- 8) Formation and maintenance of myelin sheath around CNS axons are done by
[Astrocytes](#) [Microglia](#) [Oligodendrocytes](#) [Schwann cells](#) (1)
- 9) In the heart, parasympathetic stimulation causes
[Increased heart rate](#) [Decreased heart rate](#) [Increased atrial contraction](#) [No known effect](#) (1)
- 10) Highly vascularized portion of eye that provide nutrients to retina
[Cornea](#) [Sclera](#) [Iris](#) [Choroid](#) (1)
- 11) Henry's law gives explanation for one of the followings
[Respiratory distress syndrome](#) [Decompression sickness](#) [COPD](#) [Asthma](#) (1)
- 12) The kidneys synthesize hormone
[Insulin](#) [Glucagon](#) [Calcitriol](#) [Growth hormone](#) (1)
- 13) During delivery of a baby, stretching of the cervix of the uterus stimulates the release of
[Oxytocin](#) [Prolactin](#) [TSH](#) [Glucagon](#) (1)
- 14) Ovulation is primarily caused by pre-ovulatory surge of
[Estradiol](#) [Luteinizing hormone](#) [Progesterone](#) [Follicle stimulating hormone](#) (1)
- 15) Vestibular nuclei is associated with
[Vision](#) [Hearing](#) [Olfaction](#) [Equilibrium](#) (1)
- 16) The sum of inspiratory reserve volume, tidal volume and expiratory reserve volume is
[Residual volume](#) [Total lung capacity](#) [Vital capacity](#) [Minimal volume](#) (1)
- 17) Glomerular endothelial cells prevents filtration of
[Plasma proteins](#) [Glucose](#) [Vitamins](#) [Blood cells](#) (1)
- 18) The hormone not secreted from anterior pituitary
[FSH](#) [Prolactin](#) [TSH](#) [ADH](#) (1)
- 19) Spinal tap is performed in adults between (MNG)
[L1 and L2](#) [L2 and L3](#) [T1 and T2](#) [T2 and T3](#) (1)
- 20) Parkinson disease is mainly due to the degeneration of dopaminergic neurons at one of the following regions of brain
[Substantia Nigra](#) [Clastrum](#) [Putamen](#) [Motor Cortex](#) (1)

II Long Answers

Answer all the questions.

- 1) Explain the sequence of events that generate neuronal action potential (10)
- 2) Explain the process involved in synthesis, storage, release and action of transmitters in ANS (10)

III Short Answers

Answer all the questions.

- 1) Discuss the physiology of hearing (5)
- 2) Describe the anatomy of lungs (5)
- 3) Discuss the reabsorption process in proximal convoluted tubule (5)
- 4) How is blood glucose level maintained by glucagon and insulin (5)
- 5) Describe the process of oogenesis (5)
- 6) Classify hormones secreted by posterior pituitary gland. Explain the actions of ADH (5)
- 7) Describe the anatomy of kidney (5)

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