Question Paper

Exam Date & Time: 10-Jun-2019 (09:30 AM - 12:30 PM)



MANIPAL ACADEMY OF HIGHER EDUCATION

BPharm Semester II - End Semester Examination June 2019 PHA-BP201T: Human Anatomy and Physiology-II (Theory)

Date: 10 / 06 /2019

	Human Anatomy and Physiology-II [PHA-BP201T]	
Marks: 75		Duration: 180 mins.
	I Multiple Choice Questions (MCQs)	
	the questions.	Section Duration: 30 mins
1)	Perception of pain sensation in limbs will be transmitted	(1)
200		
0	from peripheral nervous system to central nervous system via spinal cord	
	from spinal cord to peripheral nervous system via central nervous system	
	from peripheral nervous system to spinal cord via central nervous system	
	<u>from spinal cord to central nervous system via peripheral nervous</u> <u>system</u>	
2)	Subdural space is between	(1)
	Dura mater and vertebral canal	
	Dura mater and arachnoid mater	
	Arachnoid mater and pia mater	
	Pia mater and dura mater	
3)	Lateral geniculate nucleus is associated with	(1)
	Vision	
	Hearing	
	Olfaction	
	Gustation	
4)	Channel above the cochlear duct	(1)
	<u>Scala</u> <u>vestibuli</u>	
	Scala tympani	
	<u>Helicotrema</u>	
	Scala media	
5)	Myxedema is caused by the deficiency of a hormone secreted by	(1)
	Parathyroid	
	Hypothalamus	

	Thyroid		
	Pineal body		
6)	The posterior pituitary:	(1)	
6)	The posterior pituitary.	(-)	
	produces oxytocin		
	stores oxytocin		
	secretes trophic hormones		
	secretes neurohormone		
7)	The class of adrenal hormone that regulates electrolyte homeostasis is	(1)	
	Glucocorticoids		
	Mineralocorticoids		
	Androgens		
	Catecholamines		
8)	A person urinates and consumes fluids very often, however his glucose level is normal. This conditional may be the result of	on (1)	
	A reduction in insulin secretion from pancreas		
	A reduction in vasopressin secretion from posterior pituitary		
	A fall in glucose concentration in urine		
	An increase in secretion of glycogen.		
9)	Which of the following mechanisms DO NOT control glomerular filtration rate	(1)	
	Renal autoregulation		
	Hormonal regulation		
	Neural regulation		
	Chemical regulation of ions		
10)	Name the hormone secreted by the kidney	(1)	
	Erythropoietin		
	Aldosterone		
	Angiotensin converting hormone		
	Insulin		
11)	The process of emptying the bladder is called	(1)	
	<u>Mydriasis</u>		
	Miosis		
	Menstrual cycle		
	<u>Micturition</u>		
12)	Urinary bladder consists of	(1)	

Columnar epithelial cells

	Cuboidal epithelial cells	
	Pseudo ciliated epithelial cells	
	Transitional epithelial cells	
	Increase in levels of gas stimulate respiration	(1)
	Oxygen	
	Carbon dioxide	
	Nitrogen	
	Carbon monoxide	
14)	After a deep inspiration the volume of air present in the lungs will be equal to	(1)
	Vital Capacity	
	Forced Inspiratory volume	
	Total Lung capacity	
	Inspiratory reserve capacity	
15)	Conchae are present in the	(1)
	<u>Cardiac</u> notch	
	Nasal cavity	
	Voice box	
	Diaphragm	
16)	Lecithin is a substance present in	(1)
	Oropharynx	
	Bronchial tubes	
	Alveoli	
	Proximal convoluted tubule.	
17)	Corpus luteum is formed from the remnants of	(1)
	Red blood cells	
	White blood cells	
	Placental cells	
	Graafian follicles	
18)	Fertilization of ovum with the sperm will take place at	(1)
	Oviduct	
	Urethra	
	<u>Uterus</u>	
	Vagina	
19)	The "seat of intelligence" is	(1)
	<u>Cerebellum</u>	
	OUTONOMIA	

Cerehrum

Medulla oblongata Diencephalon (1)Which part of the brain may get affected during a fatal blow at the back of the head? 20) Cerebrum Cerebellum Medulla oblongata Hypothalamus **II Long Answers** Answer all the questions. (10)Describe the actions of sympathetic and parasympathetic system 1) Explain the synthesis, storage and release of thyroid hormones. Summarize (10) 2) the different cells and the functions of hormones secreted by anterior pituitary gland [6 + 4]**III Short Answers** Answer all the questions. (5)Ms. Arathi was suffering from running nose, cold and sore throat that is 1) affecting her ability to sing and talk. What are the structures involved and how are they affected? (5)Explain the signal transmission at a chemical synapse 2) (5)Describe the functions of brain stem 3) (5)Describe the histology of nervous tissue 4) (5)Draw a neat labelled diagram of kidney and explain its functions. 5) Miss. Evelyn is looking forward to her mountaineering adventure in (5)6) Himalayan range scheduled on 10th June 2019 . Her regular menstrual cycle begins during 7 to 10th of every month due to which she would be failing to participate in the expedition. In order to avoid the occurrence of menstruation during this period, what can she do to either advance or postpone her cycle. Give the underlying physiological principles. (5)With a neat, labelled diagram, explain the different lung volumes and 7) capacities