Subject: Human Anatomy and Physiology II
Duration: 3 Hours

F.Y.B.Pharm, Sem II

Total marks: 80M

N.B: 1. All questions are compulsory

2. Figures to right indicate full marks

Q1. Choose appropriate option for following multiple choice based questions. 20
1. Neurons secreting dopamine are present in
a. Substantia nigra
b. Arbor vitae
c. Cerebellar peduncles
d. Pontine nucleus
2cells of stomach secrete pepsinogen and gastric lipase.
a. G Cells
b. Chief cells
c Parietal cells
d. Mucous neck cells
3. Each bronchopulmonary segment of the lung has many small compartments called as
a. Lobules
b. Alveoli
c. Respiratory bronchioles
d. Terminal bronchioles
4 is the middle and the thickest layer of tissue surrounding each kidney.
a. Renal Capsule
b. Renal Fascia
c. Adipose Capsule
d. Renal Medulla
5. If you drank a litre of water, what effect would this have on the osmotic pressure of your blood?
a. Increase in osmotic pressure
b. Decrease in osmotic pressure
c. No change in osmotic pressure
d. Slight increase in osmotic pressure
6is a large, fluid filled follicle that is ready to rupture and expel its secondary oocyte.
a. Corpus luteum
b. Graafian follicle
c. Corpus albicans
d. Ovarian follicles
7 of hypothalamus serves as relay centre for reflexes related to sense of smell
a. Supraoptic region
b. Tuberal region
c. Mammillary region
d. Preoptic region
8 is the organ that stores, concentrates, and delivers bile into duodenum via commor
hile duct

a. Liver
b. Gall bladder
c. Pancreas
d. Large intestine
9 functions in warming, moistening, and filtering air; receives olfactory stimuli; is a
resonating chamber for sound.
a. Nose
b. Pharynx
c. Larynx
d. Epiglottis
10. Which of the following is the correct sequence in which urine flows through the kidney toward the
urinary bladder?
a. Renal pelvis, major calyx, minor calyx, papillary duct, ureter
b. Papillary duct, minor calyx, major calyx, renal pelvis, ureter
c. Minor calyx, major calyx, papillary duct, renal pelvis, ureter.
d. Papillary duct, major calyx, minor calyx, ureter, renal pelvis.
11 are involved in formation of blood testis barrier.
a. Spermatogenic cells
b. Sertoli cells
c. Primordial cells
d. Germinal epithelial cells
12. Which cells produce parathyroid hormone (PTH).
a. Chief cells
b. Oxyphil cells
c. Follicular cells
d. Parafollicular cells
13. During the phase, the negative membrane potential becomes less negative, reaches
zero, and then becomes positive.
a. Repolarizing
b. Depolarizing
c.Threshold
d. Hyperpolarizing
14 contribute to sperm motility and viability and may stimulate smooth muscle
contractions in the female reproductive tract.
a. Fructose
b. Prostaglandins
c. Clotting proteins
d. Prostate-specific antigen
15. How much is Inspiratory reserve volume in an average adult male?
a. 3100 mL
b. 2100 mL
c. 1100 mL
d. 1500 mL

16	are the largest and most numerous neuroglia in the CNS.		
a. Olig	odendrocytes		
b. Astr			
-	ndymal cells		
d. Mici	roglia		
17. The	e anterior pituitary (anterior lobe), is also called as		
a. Adenohypophysis			
b. Neu	o. Neurohypophysis		
c. Pars	nervosa SCAS SCAS SCAS SCAS SCAS SCAS SCAS SCA		
d. Pars	s intermedia		
18. Sec	cretion of Human growth hormone is inhibited by		
a. FSH			
b. TRH	o. TRH		
c. GHR	H		
d. Som	natostatin Programme Progr		
19	is the small molecule inhibitory neurotransmitter in the CNS.		
a. Glut	amate ARREST		
b. Aspa	artate SONGERS SANDON		
c. GAB			
d. Subs	stance P		
20. A p	portal triad is composed of		
a. bile	canaliculi, branch of the hepatic artery and branch of the hepatic vein		
b. bile	duct, branch of the hepatic artery and branch of the hepatic vein		
	duct, hepatic sinusoid and branch of the hepatic vein		
d. cent	ral vein, branch of the hepatic artery and branch of the hepatic vein		
Q2 A.	Answer any ONE question. 12		
a.	Explain the formation, composition, and functions of Cerebrospinal fluid, add a note on spina		
	meninges.		
b.	Define Pulmonary ventilation, explain in detail inhalation and exhalation and factors affecting		
200	pulmonary ventilation		
Q2 B.	Answer any FOUR questions. 48		
, a.	Explain generation of action potential, and describe circulation of Cerebrospinal fluid.		
b.	With the help of neat labelled diagram explain the anatomy and histology of small intestine.		
Z Pc.	i. Write a note on regulation of respiratory centres.		
3,27,7	ii. Explain in detail the blood supply to the kidney and write a short note on ureters.		
d.	~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ 		
	Draw a neat labelled diagram of histology of overy. Explain the process of cogenesis		