Time: 3hours	Marks: 75
N.B: 1. All questions are compulsory.	3
2. Draw the diagram wherever necessary.	
Q I. Choose the correct alternative for the following	20 Mark
1. Which division of the autonomic nervous system is responsible for "fig	ht or flight"
responses?	
A. Parasympathetic	
B. Somatic	45
C. Enteric	3
D. Sympathetic	
	Dr. Dr.
2. MALT present in lamina propria is,	A
A. Muscle associated lymphatic tissue	290
B. Muscular and lymph tissue	3
C. Mucosa associated lymphatic tissue	47
D. Mucosa associated lung tissue	450
3. The correct sequence of different layers of the tracheal wall, from dee	p to superficial,
are A	37
A. Mucosa, Submucosa, Hyaline cartilage and Adventitia	
B. Adventitia, Mucosa, Submucosa and Hyaline cartilage	
C. Mucosa, Adventitia, , Submucosa and Hyaline cartilage	
D. Hyaline cartilage, Adventitia, Mucosa and Submucosa	145
4 is the area present between two renal pyramids in the kidney.	\
A. Major calyx	7
B. Renal Column	
C. Medulla	
D. Hilum	
5. In a 28 day female reproductive cycle phase lasts from day 6 t	o 13.
A. Menstrual	
B. Post ovulatory	
C. Pre ovulatory	
D. Ovulation	
6is a bundle of axons that is located in the PNS.	
A. Nucleus	
B. Ganglion	
C. Cyton	
D. Nerve	
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	ct the lipid soluble hormone from the following Nitric Oxide
	Nitric Oxide
В.	Adrenaline
C.	Insulin A
D.	Oxytocin Oxytocin
8	is the process by which the fetus is expelled from the uterus through the
vagir	
	Implantation S
	Parturition & A A A A A A A A A A A A A A A A A A
	Gestation
D.	Embryogenesis
9	is a basic unit of inheritance, controlling a particular trait.
	Chromosome
В.	Gene A A A A A A A A A A A A A A A A A A
C.Y	Nucleotide A A A A A A A A A A A A A A A A A A A
D.	DNA?
10	is the characteristic movement occuring in the large intestine.
	Haustral movement
	Peristaltic movement
. \	Segmentation
D.	Migrating motility complex
11 WA	ich hormone contributes to setting the body's biological clock?
A.	Δ^{-1}
4	Aldosterone
() (Insulin
	Melatonin
D.	A ST
12-Th	e scrotum is separated into lateral portions by a median ridge called the
A.	Dartos — —
В.	Cremaster
	Raphe
$\mathbf{D}_{\bullet}^{\Lambda}$	Corpora Cavernosa
(2)	
13. Wł	nich of the following works by filtering out and keeping the dirt and mucus away from
~)	lungs?
Α.,	Bronchioles
B.	Alveoli
C.	Cilia A
D.	Trachea
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	Var. Var. A. I. Comment of the Comme

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14.		generates ATP by transferring a high-energy phosphate group from an
	int	termediate phosphorylated metabolic compound directly to ADP.
		Substrate-level phosphorylation
		Oxidative phosphorylation
		Photophosphorylation
		Autophosphorylation
15.	Fer	rtilization of a secondary oocyte by sperm usually occurs in the
10.		Ampulla
	B.	Infundibulum
		Fimbriae S
		Isthmus
16.		prevents the entry of food into the windpipe.
	<u>A</u> .	Pharynx
	B	Larynx S
	C.	Alveoli
2	D.	Epiglottis
1		
17.	Dia	abetes insipidus is due to defects in receptors for or an inability to secrete it.
		Parathyroid hormone
	A T	Human Growth hormone
3	C.	Antidiuretic hormone
7	D.	Thyroid stimulating hormone
V		
18.	Wi	nich of the following neuroglia is present in the peripheral nervous system?
		Satellite cells A
3	B.	Astrocytes
	C.	Oligodendrocytes
	D.	Ependymal cells 4
	3	
19.	<u>C</u>	is the process of synthesis of proteins from RNA occuring in the ribosomes.
3	A.	Translation
	B.	Transcription
	$\mathbf{C}_{\cdot,}$	Replication
	D.	Crossing-over
4	30	
20.		t filtration pressure (NFP), the total pressure that promotes filtration in glomerulus, is
Y .		ermined as
		NFP = GBHP + CHP + BCOP
	. ' '	NFP = GBHP - CHP - BCOP
1	C.	NFP = GBHP + CHP - BCOP
ST.	D.	NFP = GBHP - CHP + BCOP
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Q II. Answer any **TWO** of the following.

20 Marks

- 1) Explain in detail the anatomy of the cerebrum and add a note on sensory areas of the cerebrum.
- 2) A) Draw a neat labeled diagram of internal anatomy of Kidney.
 - B) Explain in detail the structure of Lungs.
- 3) Explain in detail the formation and functions of thyroid hormone.

Q III. Answer any **SEVEN** of the following.

35 Marks

- 1) Explain the protective coverings of the brain and write the importance of the blood-brain barrier.
- 2) Describe the anatomy and histology of the stomach with a neat labeled diagram.
- 3) Explain the factors affecting oxygen transport in the respiratory system.
- 4) Explain the mechanisms that regulate glomerular filtration rate.
- 5) Write a note on regulation of calcitonin and parathyroid hormone secretion.
- 6) Draw a neat labeled diagram of histology of Ovary.
- 7) With the help of a neat labeled diagram, explain signal transmission at a chemical synapse in the nervous system.
- 8) Explain the accessory sex glands of the male reproductive system and give the composition of semen.
- 9) Explain chemical digestion of carbohydrates, and proteins occurring in the small intestine.

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