Time: 3hours	Marks: 75
N.B: 1. All questions are compulsory.	
2. Draw the diagram wherever necessary.	
70) Tr. 30, 10),	18
Q I. Choose the correct alternative for the following	20 Marks
1. Which division of the autonomic nervous system is responsible for "figl	nt or flight"
responses?) (9)
A. Parasympathetic	
B. Somatic	3
C. Enteric	Sy'
D. Sympathetic	
2. MALT present in lamina propria is	8
A. Muscle associated lymphatic tissue	
B. Muscular and lymph tissue	30,
C. Mucosa associated lymphatic tissue	
D. Mucosa associated lung tissue	
3. The correct sequence of different layers of the tracheal wall, from dee	p to superficial,
are A A A A A	49,
A. Mucosa, Submucosa, Hyaline cartilage and Adventitia	3
B. Adventitia, Mucosa, Submucosa and Hyaline cartilage	,,
C. Mucosa, Adventitia, , Submucosa and Hyaline cartilage	80,
D. Hyaline cartilage, Adventitia, Mucosa and Submucosa	25
	A
4 is the area present between two renal pyramids in the kidney.	9,
A. Major calyx	₹
B. Renal Column	
C. Medulla	
D. Hilum	
5. In a 28 day female reproductive cycle phase lasts from day 6 to	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	
8 9 9	

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7. Sele	ct the lipid soluble hormone from the following Nitric Oxide Adrenaline Insulin Oxytocin
	Nitric Oxide
	Adrenaline
	Nitric Oxide Adrenaline Insulin
	Oxytocin
Σ.	
8	is the process by which the fetus is expelled from the uterus through the
vagir	na.
A.	Implantation Parturition Gestation Embryogenesis
B.	Implantation Parturition Gestation Embryogenesis
C.	Gestation
D.	Embryogenesis
9	is a basic unit of inheritance, controlling a particular trait.
A.	is a basic unit of inheritance, controlling a particular trait. Chromosome Gene Nucleotide
В.	Gene S
Ç.	Gene Nucleotide
19 D.	Gene Nucleotide DNA
1	
10	is the characteristic movement occuring in the large intestine.
	Haustral movement
В.	Haustral movement Peristaltic movement Segmentation
A'C.	
) D.	Migrating motility complex
11. W	hich hormone contributes to setting the body's biological clock?
A.	Oxytocin
\bigcirc	Aldosterone
	Insulin
D.	Melatonin
10	
12.Th	e scrotum is separated into lateral portions by a median ridge called the
Λ · A.	Dartos
B.	Cremaster
	Raphe
\$	Corpora Cavernosa
13. Wł	nich of the following works by filtering out and keeping the dirt and mucus away from
	lungs?
	Bronchioles
B.	Alveoli
₩.	Cilia
D D	Trachea
F 4000	
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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
	В.	
		Photophosphorylation
		Autophosphorylation
	υ.	Autophosphol ylation 2
15	Fer	tilization of a secondary oocyte by sperm usually occurs in the
15.		Ampulla Ampulla
		Infundibulum
		Fimbriae 2
		Isthmus Isthmu
	υ.	
16.		prevents the entry of food into the windpipe.
10.	Α	Pharynx Pharyn
		Larynx
	C	Alveoli
10	D.	Epiglottis S
4		
17.	Dia	abetes insipidus is due to defects in receptors for or an inability to secrete it.
		Parathyroid hormone
		Human Growth hormone
1	С.	Antidiuretic hormone
5	D.	Thyroid stimulating hormone
)		A B A A A A A A A A A A A A A A A A A A
18.	W	nich of the following neuroglia is present in the peripheral nervous system?
		Satellite cells A Transfer of the same of
3	В.	Astrocytes
30	C.	Oligodendrocytes
	D.	Ependymal cells A
	A	
19.	9)	is the process of synthesis of proteins from RNA occuring in the ribosomes.
1	A.	Translation
\$ P	B.	Transcription
	C .,	Replication
	D.	Crossing-over
1	D.	
20.	Ne	t filtration pressure (NFP), the total pressure that promotes filtration in glomerulus, is
2)	det	ermined as
	- 4	NFP = GBHP + CHP + BCOP
	0-,	NFP = GBHP - CHP - BCOP
Ó	C.	NFP = GBHP + CHP - BCOP
B)	D.	NFP = GBHP - CHP + BCOP
E 4	QAA	Page 3 of 4

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.

E 400