Duration: 3 hours Total Marks: 75 M

N.B. 1. All questions are compulsory

2. Figures to the right indicate full marks.

Q1.Ch	oose the appropriate option for following multiple choice based questions. 20N
1	is an extension of dura mater that separates two hemispheres of the
	cerebrum.
a	Falx cerebri
b	Falx cerebelli
c	Tentorium cerebelli
d	Tentorium cerebri
2	The majority of the water from the indigestible food is absorbed in the
a	Stomach
b	Esophagus
c	Small Intestine
d	Large Intestine
3	Gaseous exchange takes place in which of the following part of the respiratory
	System?
a	Alveoli
b	Pharynx S S S S S S S S S S S S S S S S S S S
c 6	Larynx
do	Trachea
4	Kidney is located between
a	5th thoracic vertebrae to 3rd lumbar vertebrae
b	8th thoracic vertebrae to 12th lumbar vertebrae
c	10th thoracic vertebrae to 5th lumbar vertebrae
d	12th thoracic vertebrae to 3rd lumbar vertebrae
5	is an example of Exocrine gland.
a	Sudoriferous
b	Thymus
c	Pancreas
d	Ovaries
6	is the process by which the fetus is expelled from the uterus through
	the vagina.
a	Implantation
b	Parturition
c So	Gestation
d	Embryogenesis
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7	Which of these neuroglial cells are star shaped, largest and most numerous having
	many processes?
a	Oligodendrocytes
b	Astrocytes
c	Microglia
d	Ependymal cells
8	portion of the stomach opens into the small intestine.
a	Cardiac
b	Fundic S S S S S
c	Pyloric
d	Body
9	reduces friction between the membranes in the lungs and thus allow them
	to slide easily over one another during breathing.
a	Pericardial fluid
b	Pleural fluid
c	cerebrospinal fluid
d	Peritoneal Fluid
10	Capillary hydrostatic pressure during filtration is built in the glomerulus as——.
a	size of Bowman's capsule is significantly large
b	an afferent arteriole is narrow compared to efferent
c	Bowman's capsule is cup-shaped
do	an efferent arteriole is narrow compared to afferent
11	Which of the following hormones are known as gonadotropins?
a	LH and Oxytocin
b	LH and vasopressin
C	LH and FSH
d	FSH and Oxytocin
12	The ducts of the seminal vesicles produce
a	Mucus
b	Testosterone
c	An alkaline, viscous fluid that contains fructose
d	Milky, slightly acidic fluid
100	
13	is a layer of simple epithelium that covers the surface of the ovary.
a	Tunica vaginalis
b	Tunica albuginea
c	Germinal epithelium
d	Serosa

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14	is one of the enlargements seen when the spinal cord is viewed externally.
a	Thoracic enlargement
b	Cervical enlargement
c	Caudal enlargement
d	Sacral enlargement
15	helps in emulsifying fats.
a	Pancreatic Juice
b	Bile
c	Salivary Gland
d	Gastrin
16	In which of the following structure, C shaped horizontal rings of hyaline cartilage is
	observed?
a	Trachea
b	Lungs
c	Bronchus
d	Esophagus
17	Fertilization of secondary oocyte occurs in of the oviduct.
a	Ampulla
b	Fimbriae
c	Isthmus
d 6	Infundibulum
18	house of increases the floodility of the muhic and district and district coming
10	hormone increases the flexibility of the pubic symphysis, and dilates cervix
, A	during labor. Relaxin
a	
D	Inhibin
C	Progesterone
d	Estrogen
10	homono is thought to moments alconings
19	hormone is thought to promote sleepiness.
a b	Thymosin Malatania
b	Melatonin Inhibin
C	
d	Glucocorticoids
20	
20	phase of the female reproductive cycle is also known as proliferative phase.
a	Menstrual
b	Post ovulatory
c C	Pre ovulatory
d %	Ovulation

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Q2. Attempt the following (Any TWO)

20M

- a. Explain the formation, composition, circulation and functions of Cerebrospinal fluid, add a note on spinal meninges.
- b. Draw a neat labeled diagram of the respiratory system. Explain the process of oxygen transport in blood, and factors affecting affinity of Haemoglobin for oxygen.
- c. Draw a neat labeled diagram of pituitary gland. Write a note on anterior pituitary cells and their hormones.

Q3. Attempt the following (Any SEVEN)

35M

- a. Explain the structure of the reflex arc with a neat labeled diagram.
- b. Describe the structure of a Neuron, and give the classification of neurons.
- c. Elaborate on the role of pancreas in digestion.
- d. Describe in detail the anatomy and structure of the small intestine.
- e. With the help of a neat labeled diagram explain structure and function of alveoli
- f. Explain in detail blood supply to the kidney.
- g. Write in detail about the renin-angiotensin-aldosterone or RAA pathway.
- h. Enlist the phases of the Female Menstrual Cycle, and explain any two phases with respect to uterine and ovarian changes.
- i. Explain in detail hormonal regulation of the Testes.
