Duration: 3 hours Total Marks: 75 M

N	.B.	1.	All	questions	are	compu	lsory
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2. Figures to the right indicate full marks.

Q1.	Choose the appropriate option for following multiple choice based questions. 20M
1	Which neuroglial cells function as phagocytes in the CNS?
a	Microglia
b	Oligodendrocyte
c	Ependymal cells S
d	Astrocytes
2	Each peristaltic wave moves gastric contents from the body of the stomach down into
	the antrum, by a process known as
a	Digestion
b	Propulsion S S S S S S S S S S S S S S S S S S S
c	Retropulsion
d	Migrating motility complex
3 4	Which of the following is the correct pathway through which air travel in the
	respiratory system?
a	Nose, Pharynx, Trachea, Lungs
b	Nose, Trachea, Lungs, Pharynx,
c	Trachea, Pharynx, Lungs, Nose
d	Nose, Trachea, Pharynx, Lungs
4	carries out the conversion of angiotensinogen, which is released by the
	liver, to angiotensin I
a	Aldosterone
b	Renin
C	Calcitriol
d	Erythropoietin
5	is a water soluble amine hormone.
a	Testosterone
b	Aldosterone
Ċ	Epinephrine
d	Nitric oxide
6	hormone produced by the placenta during pregnancy is believed to establish
	the timing of birth.
a	Relaxin
b	Corticotropin-releasing hormone
c	Human placental lactogen
d	Progesterone

34559

Paper / Subject Code: 65811 / Human Anatomy & Physiology- II

7	is the motor area of the cerebral cortex.
a	Primary auditory area
b	Wernicke's area
c	Broca's speech area
d	Primary gustatory area
8	The regulates the movement of food from the pharynx into the
	esophagus.
a	Pyloric sphincter
b	Upper esophageal sphincter
c	Lower esophageal sphincter
d	Ileocecal sphincter
9	The right and left primary bronchi divides into
a	Lobar bronchi
b	Segmental bronchi
c	Carina C S C S S S S S S S S S S S S S S S S
d	Terminal bronchioles
10	When cells are relaxed, surface area is maximal and glomerular filtration
	rate is high.
a	Nephron
b	Mesangial
c	Detrusor
d	Juxtaglomerular
b. D.	
11	Which of the following is the action of parathormone in the human body?
a	decreases blood sodium level
b	increases blood sodium level.
c	decreases blood calcium level
d	increases blood calcium level
10	
12	refers to the external genitals of the female.
a	Mons pubis
Ь	Vulva
c	Perineum
d	Vestibule
10	
13	lines the uterine cavity and sloughs off during menstruation.
a	Perimetrium
b	Myometrium Structure for ationalis
C	Stratum functionalis
d	Stratum basalis

34559

Paper / Subject Code: 65811 / Human Anatomy & Physiology- II

14	is an inhibitory neurotransmitter.
a	GABA
b	Aspartate
c	Glutamate
d	Epinephrine
15	Pancreatic juice is drained in part of the small intestine.
a	Duodenum
b	Ileum S S S S S S S S S S S S S S S S S S S
c	Jejunum S S S S S S S S S S S S S S S S S S S
d	cecum
16	performs only respiration functions.
a	Nasopharynx
b	Oropharynx
c	Laryngopharynx
d	Esophagus
17	The process of release of sperms from their connections to Sertoli cells, is known as
a	Spermiation
Ъ	Spermiogenesis
c	Capacitation
d	Spermatogenesis
18	cells in testes secrete testosterone.
a	Sustentecular
b	Sertoli
C	Leydig
d	Primordial germ
10	Change and with an an advanted and in his har
19	Glucocorticoids are secreted mainly by cells of adrenal cortex. Chromaffin
a	Zona glomerulosa
b	Zona reticularis
c d	Zona fasciculata Zona fasciculata
u	Zona rasciculata
20	is the site of sperm maturation.
a	Vas deferens
b	Epididymis Epididymis
c	Rete testis
d S	Spermatic cord
4	Sperimuse coru

34559

Q2. Attempt the following (Any TWO).

20M

- a. Explain in detail the anatomy of the cerebrum and add a note on sensory areas of the cerebrum.
- b. Define pulmonary ventilation, explain in detail inhalation and exhalation and factors affecting pulmonary ventilation.
- c. Describe the structure of adrenal cortex and add a note on Glucocorticoids and its regulation.

Q3. Attempt the following (Any SEVEN).

35 M

- a. Draw a neat labelled diagram of internal anatomy of spinal cord.
- b. Write a note on Diencephalon.
- c. Explain in detail functions of the liver.
- d. Explain the composition and functions of pancreatic juice.
- e. Write a short note on respiratory volume and capacities.
- f. With the help of labelled diagram explain internal anatomy of kidney.
- g. Explain the roles of calcitonin, parathyroid hormone, and calcitriol in calcium homeostasis.
- h. Draw a neat labelled diagram of internal structure of Testes.
- i. Describe the process of oogenesis.
