### 3 Hours

Q1. 0	Choose appropriate option for following multiple choice based questions.  . clusters of rough endoplasmic reticulum found in neuronal cell bodies
0	Soma
ь	Myelin sheath
C	Nissl bodies
d	Perikaryon
2	Mucous cells of the gastrointestinal tract are also known as
a	Goblet cells
b	Chief cells
C	Parietal cell
d	Entero endocrine cell
3	muscle is primarily responsible for inspiration
a	Detrusor Muscle
b	Myometrium
C	Deltoid muscle
d	Diaphragm
4	Which one among the following is responsible for the final adjustments to urine composition?
a	Proximal convoluted tubule
b	Loop of Henle
C	Collecting duct
d	Renal corpuscle
5	Select the hormone secreted by chromaffin cells
a	Calcitonin
b	Epinephrine
c	Insulin
d	Aldosterone
	to a struction of follogies in the overies
6	hormone stimulates the growth & maturation of follicles in the ovaries
a	Estrogen
b	Progesterone  13. W. L. Strandeting Harmona (FSH)
C	Pollicle Stimulating Hormone (FSH)
d	Lutenizing hormone (LH)
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7	The type of neuroglia found in the peripheral nervous system is
a	Astrocytes cell
b	Oligodendrocytes cell
C	Microglia cell
d	Schwann cell
8	The cells in the liver are responsible for the phagocytosis of old red blood cells, white blood cells, and certain bacteria.
a	Hepatocytes
b	Kupffer
c	Clara
d	Paneth
9	connects the middle ear to nasopharynx
a	Oval window
b	Eustachian tube
C	Cochlea
d	Tympanic membrane
10	Which of the following hormone reduces glomerular filtration rate (GFR)
a	Angiotensin II
b	Atrial natriuretic peptide
C	Parathyroid hormone
d	Glucagon
11	is an example of lipid soluble hormone
a	Epinephrine
b	Antidiuretic hormone
C	Insulin
d	Cortisol
12	What is the primary function of the corpus luteum?
a	To stimulate ovulation
b	To secrete progesterone
c	To Regulate Menstural Cycle
d	To support the maturation of the oocyte
13	During which phase of the menstrual cycle does the Graafian follicle typically mature?
a	Menstrual phase
b	Luteal phase
c	Ovulatory phase
d	Follicular phase

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u	
d	7.2–7.7
c	9.1- 9.8
b	4.7 - 5.4
20 a	1.2 - 3
20	The pH of seminal fluid is typically ranging from
d	F cells
c	Delta cells
b	Beta cells
a	Alpha cells
19	Which of the pancreatic islet cell secrete glucagon
d	Estrogen
c	Thromboxane
b	Prostaglandin
a	Fructose
18	seminal fluid secreted by the seminal vesicles.
10	provides energy for sperm production and is the component of the
d	Seminiferous tubules
C	Spermatic Cord
b	Vas deferens
a	Prostate gland
17	Where does spermatogenesis occur?
d	Trachea
c	Alveoli
b	Larynx
a	Bronchioles
16	Which structure is commonly known as the voice box?
-	
d	Gastric amylase
C	Ribonuclease
b	Enterokinase
13	Carboxypeptidase
15	enzyme, released in the small intestine, transforms trypsinogen into trypsin.
d	Temporal
C	Occiptal
Ь	Parietal
a	Frontal
	and speech
14	lobe of cerebrum is the center of reasoning, planning, emotion . movement

#### Q2 A. Attempt the following (Any TWO).

- a Explain in detail the anatomy and physiology of the Diencephalon
- b i) Explain in detail the process of inhalation
  - ii) Write a note on role of kidney in acid-base balance.
- c Define and classify hormone. Explain the steps involved in formation of thyroid hormone and write the physiological actions of thyroid hormone.

### Q2 B. Attempt the following (Any SEVEN).

- a Write a note on Medulla oblongata
- b Describe in detail different phases of neuronal action potential.
- c Explain in detail the process of acid production in the stomach.
- d Describe the process of chemical digestion in small intestine.
- e With the help of neat labeled diagram, describe the process of external respiration.
- f Write a note on functions of the kidney.
- g Describe the renin-angiotensin-aldosterone (RAA) system.
- h With the help of neat labeled diagram, explain the process of oogenesis.
- i Write a note on acessory glands associated with male reproductive System.