PSG COLLEGE OF ARTS & SCIENCE

(AUTONOMOUS)

MSc DEGREE EXAMINATION DECEMBER 2018

(First Semester)

Branch - CLINICAL NUTRITION AND DIETETICS

Time:	Three Hours	Maximum: 75 Marks
		N-A (10 Marksl ALL questions
	ALL questions	carry EQUAL marks $(10 \times 1 = 10)$
1	Who coined the term 'Cell'? (i) Schwann (iii) DeBary	(ii) Robert Hooke (iv) Tatum
2	Which of the following is associ (i) Cistemae (iii) Annuli	ated with the structure of golgi complex? (ii) Cristae (iv) Quatasomes
3	Which of the following is a cont (i) Actin (iii) Tubulin	ractile protein of a muscle? (ii) Myosin (iv) Fibrin
4	Which of the following hormone women? (i) Estrogen (iii) Progesterone	e levels are increased in post menopausal (ii) FSH (iv) Cortisone
5	Choose the following type which (i) Deep sleep (iii) Awake	n occurs in delta waves in EEG. (ii) REM sleep (iv) Non-REM sleep
6	Find the part where the exchange place. (i) Alveoli (iii) Bronchiole	e of respiratory gases in the lungs takes (ii) Trachea (iv) Bronchi
7	Which of the following is correc rennin? (i) Mouth-starch (iii) Stomach - casein	t pairing of site of action and substrate of (ii) Stomach-fat (iv) Small intestine - casein
8	What is common among amylase, rennin and trypsin? (i) These are produced in stomach (ii) These act at pH lower than 7 (iii) These are all proteins (iv) These all are proteolytic enzymes	
9	Find the relay center between va (i) Hypothalamus (iii) Mid brain	rious parts of brain and spinal cord. (ii) Thalamus (iv) Hindbrain
10	Which of the following organ is NOT part of cardiovascular system?	

SECTION - B (35 Marks!

(i) Artery (iii) Vein

Answer ALL Questions

ALL Questions Carry **EQUAL** Marks (5x7 = 35)

(ii) Spleen

(iv) Capillary

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Cont...

Discuss the origin and conduction of heart beat.

OR

Evaluate the cardio-respiratory response to exercise.

Discuss the digestion and absorption of fats.

OR

Explain the process involved in urine formation.

Discuss on the role of hormones secreted by pituitary gland.

OR

Illustrate the structure of female reproductive system.

State the principle and interpretation of EEG.

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Explain the rhodopsin cycle.

SECTION - C (30 Marks!

Answer any **THREE** Questions

ALL Questions Carry **EQUAL** Marks $(3 \times 10 = 30)$

Compare and differentiate between membrane and action potential.

Enumerate the process involved in cardiac cycle.

Elucidate the functions and anatomy of kidney and nephron and also functioning of hemodialyser.

Enumerate the mechanism of contraction of skeletal muscles.

Compare the role of efferent and afferent nerves and give a brief note on neurotransmitters.

Z-Z-Z END