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Full Marks: 100

The West Bengal University of Health Sciences MBBS 1st Professional Examination (New Regulation), Feb-March, 2024

Subject: Physiology	Time: 3 hours	
Paper: II	figures in the margin indicate full marks.	
A patient came to emergency dept. wertebra. On examination, it was four loss on the opposite side below T8	with road traffic accident, with injury at the level of T8 and that motor loss is prominent on the same side and se 3. What is your diagnosis? Explain the phenomenon II be affected below that lesion and why? 1+(5+5)+(with
radiated to the back. Oral cholecy: bladder. She also suffered pain in let What is the cause of 'pain in the ne	ck'? What is dermatomal rule? What are the theories b	r gan
a) Enumerate contraceptive method disadvantages of oral contraceptive p	ods in male and female. Discuss the advantages vills.	s and 5+5
b) Briefly discuss counter current mec	hanism. What is the importance of vasa recta?	8+2
c) Outline the steps of synthesis of thy	roid hormone. What is Wolff Chaikoff effect?	8+2
3. Write short notes on the following:		2x5
a) Stretch reflex and inverse stretch re-	flex.	
b) Splay phenomenon.		
(1)		54
Explain the following statements:		5x4
 a) Adequate sleep promotes growth. 	A LANGE TO SERVICE STATE OF THE SERVICE STATE STATE STATE STATE STATE ST	
 Radiologist/pilots use red goggles 	when come to bright light.	
c) Mother's urinary estriol provides a	good index of fetal wellbeing.	
 d) Polyphagia occurs in diabetes mell e) Aspirin and NSAIDs relieve fever. 		
c) Aspititi and Northbotteneve level.		
Choose the correct option of each of	of the following:	10x1
i) Transection of pituitary stalk increase		
a) ACTH.	b) Prolactin.	
c) Growth Hormone.	d) None of the above.	
ii) Sertoli cell secretes all except:		
 a) Androgen binding protein. 	b) Inhibin.	
c) Testosterone.	 d) Mullerian Inhibiting substance. 	

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iii) Which is not true about knee jerk? www.FirstRanker.com

a) It involves a brief contraction of Quadriceps muscle.

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a) It involves a brief contraction
 b) It is a polysynaptic reflex.

c) Delayed relaxation may be seen in a hypothyroid child.

d) May be absent in lesions involving L3-L4 segment.

iv) Which is not characteristic of REM sleep?

a) Subject is difficult to arouse.

b) Muscle tone is increased.

c) Increased activity in pontine.

d) Low voltage high frequency waves seen in EEG.

v) Which of the following hormones is responsible for conversion of chondrocytes into osteogenic cells?

a) Thyroxine.

b) Testosterone.

c) Parathyroid hormone.

d) Growth hormone.

vi) Which of the following causes hypocalcemia?

a) Parathormones.

b) Calcitonin.

c) Cholecalciferol.

d) Thyroxine

vii) All are second messengers except.

a) ATP

b) cAMP.

c) Ca++.

d) IP₃.

viii) Hormone responsible for midcycle rise in basal body temperature is:

a) Follicle stimulating hormone.

b)Luteinizing hormone.

c) Progesterone.

d)Estrogen.

ix) Medial Geniculate Body is related with:

a) Taste.

b) Smell.

c) Vision.

d) Hearing.

x) Purkinje fibres are inhibitory to:

a) Deep cerebellar nuclei.

b) Climbing fibre.

c) Basket cells.

d) Spinocerebellar tracts