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## The West Bengal University of Health Sciences MBBS 1<sup>st</sup> Professional Examination, January 2020

Full Marks: 50 Subject: Physiology Time: 2 1/2 hours Paper: II Attempt all questions. The figures in the margin indicate full marks. Group A 1. a) Give an account of natural pain control mechanisms. What is referred pain? Give two 5+1+2+4 examples. What are the theories of referred pain? or b) Summarize the effects of insulin on various tissues. What is glucose tolerance test? What 5+3+4 are the major differences between type I & type II diabetes mellitus? Group B 2 x 7 2. Answer any two of the following: a) Outline the process involved in the secretion H+ into the tubules. What is the significance of these processes in the regulation of acid-base balance? b) Draw a diagram showing optic pathways with proper labeling. What are the effects of transaction at different locations of the optic pathways? What is macular sparing? c) Name the key hormones secreted by Leydig cells & Sertoli cells of the testes. Outline the steps involved in spermatogenesis. Tiskoslavae 2+5 FS4. Group C Write a brief account on any four of the following: 4 x 3 3. a) Placental Hormones. b) Tubulo- glomerular feedback. c) Cretinism. d) Myopia. e) Parkinsonism. Group D Give the physiological explanation of the following: 4 x 3 a) Low serum level of sodium increases aldosterone secretion. b) GFR is measured by creatinine clearance test. Automatic Bladder' is produced in complete transection of spinal cord.

d) Babinski's sign is positive in infants.