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001/22 The West Bengal University of Health Sciences MBBS 1st Professional Examination (New Regulation), June, 2022 Full Marks: 100 Subject: Physiology Time: 3 hours Paper: I Attempt all questions. The figures in the margin indicate full marks.

A 20 year male was brought to the emergency department following a road traffic accident with history of blood loss. On examination there is tachycardia. BP 60/40 Attempt all questions. The figures in the margin indicate full marks. history of blood loss. On examination there is tachycardia, BP 60/40 mm of Hg. What is the type of shock the patient is suffering from? Enumerate the different types of the stages of shock the patient is suffering from? Enumerate the different types of shock. Describe the stages of shock. If you need to transfuse blood to this patient what are the preshock. If you need to transfuse blood to this patient what are the precautions that you need to take and what are the investigations you need to conduct? What are the investigations you need to conduct? and what are the investigations you need to conduct? What are the homeostatic mechanisms that will come into play as life saving measures for this patient? 1+2+2+3+4+3 will come into play as life saving measures for this patient? b) With a labeled diagram show the different secretory glands of stomach. Enumerate their different secretions. Describe the mechanism of gastric acid secretion. How is the stomach itself gets protected from corrosive effect of gastric acid? 2. a) What are the different types of chemoreceptors regulating ventilation? How are they stimulated List the pathways by which increased PCO2 stimulates ventilation. b) What is active transport? Discuss secondary active transport with examples. Describe the mechanism of exocytosis. of Define cardiac output. What are the factors regulating cardiac output? What are the methods you know which can be utilized to measure cardiac output? Briefly describe one method to measure cardiac output. 2+3+2+3 3. Write a short note on the following: 2x5 a) Attitude of a doctor towards AIDS patients. Myasthenia Gravis. Explanation the following statements: 5x4 a) Hematocrit of the venous blood is more man that of arterial blood. b) Low dose Aspirin is prescribed in patients with coronary thrombosis. c) Jaundice is produced when a person has a high rate of RBC destruction. A) Residual volume in the lung is essential for smooth breathing. Gastric pH is auto-regulated. 5. Choose the correct option in each of the following: 10x1 i) Stokes Adams syndrome occurs in : a) First degree heart block. b) Systemic hypertension. c) Wenckebach phenomenon. Complete heart block. P.T.O



