The West Bengal University of Health Sciences D.M. (Cardiac Anesthesiology) Examination, August 2022

Full Marks: 100 Time: 3 hours Paper: I Attempt all questions. All Questions carry 10marks each. 1. Describe right heart catheterization giving its indications and procedures. How is the shunt calculated by clinical and echocardiography? 5+52. Discuss the cardiac cycle. Describe hemodynamic goals for stenotic valvular 5+5lesions. 5+53. Write short notes on: a) Heparin coated circuit b) Drug sequestration in oxygenator 4. What is vasoplegia? What is mechanism of it? How will you manage? 2+3+510 5. Describe the endocrine responses to cardiac anesthesia. 6. During Transesophageal echocardiography how do you achieve transgastric 5+5 view? What all information can be achieved from this view? 7. Discuss the role of adenosine in cardiac regulation including mechanism of action in arrhythmias and in ischemia reperfusion injury. 10

9. Explain the physiology of one lung ventilation. Discuss the anaesthetic management of left upper lobe abscess posted for left upper lobectomy. 5+5

8. Discuss the structure and function of neonatal myocardium.

5+5

10. Draw detailed diagram of coronary circulation. Discuss the effect of inhalation anaesthetics on coronary circulation.

5+5