The West Bengal University of Health Sciences M.D. (Anaesthesiology) May - June, 2022 Examination

Paper: I

Full Marks: 100 Time: 3 Hours

4+6

	Attempt all questions
1.	Anatomy of coronary circulation with a well labelled diagram. What is coronary perfusion pressure? Mention the factors regulating coronary perfusion pressure. 5+2+3
2.	Anatomy of Brachial Plexus with a well labelled diagragm. What are the strategies to reduce phrenic nerve palsy in regional anaesthesia in shoulder surgery? 6+4
3.	What is significance of autonomic neuropathy in diabetes mellitus? How can it be assessed? 5+5
4.	Circle of Willis and its importance in anaesthesia practice.
5.	Describe briefly the safety features in modern anaesthesia machines. Discuss various features that prevent the delivery of hypoxic gas mixtures. 6+4
6.	Describe the pharmacokinetics and pharmacodynamics of etomidate Describe briefly its role in clinical practice. 6+4
7.	Discuss the clinical manifestations of local anaesthetic toxicity and its management. 5+5
8.	Enumerate the different types of arrhythmias encountered in
1	the intraoperative period. Discuss the causes and management. 4+3+3
9.	What are the causes of hypercarbia during the intraoperative period?
	Discuss the effects and management. 3+3+4
0.	What is ASA physical status classification? Briefly describe other factors

that may alter the risk associated with anaesthesia.