8. Write short notes on:

a) Fick principal

intravascular pressure gradients.

## The West Bengal University of Health Sciences D.M. (Cardiac Anesthesiology) Examination, November- December 2021

Full Marks: 100

5+5

and 10

10

Danou I		Time: 3 hours
Paper : I	Attempt all questions. All Questions carry 10marks each.	
1.	Describe the mechanism of flow of ion through ion channels for caexcitability.	ardiac electrical
2.	Write short notes on potential therapies for prevention of infla complications of cardiopulmonary bypass.	mmation related 10
3.	Write short notes on G-protein couple receptors.	10
4.	Discuss in brief on adenosine signalling.	10
5.	Write short note on possible role of genetic factors combined with insults in post surgical anaesthetic outcomes.	th peri-operative 10
6.	Discuss on the treatment protocol of different stages of heart failuby ACCF / AHA guideline 2013.	re recommended 10
7.	Write short notes on:	5+5
	<ul> <li>a) Vernakalant b) Natural frequency and damping coefficient f measurement system</li> </ul>	or pressure

b) Bio impedance and Bio reactance technology

9. Describe echocardiographic techniques used to estimate intracardiac

10. Write short notes on physiologic basis of electroencephalography.