

BM6010 ASSIST DEVICES
UNIT 1-CARIDAC ASSIST DEVICES
2 Marks

1. What is meant by ECP?
2. How ECP works?
3. What are the benefits of ECP?
4. What are the risks of ECP?
5. What is meant by IABP?
6. What are the goals of IABP?
7. Explain in general the artificial assist devices?
8. Define heart lung machine.
- 9. What is the function of heart lung machine?**
10. why do we need valves?
11. what are the two types of artificial heart valves
12. what are the three types of mechanical valves
13. what are the types of human tissue valves?
14. what is meant by animal tissue valve?
15. what is the need of ECP?
16. Where the cuff is placed in ECP?
17. Define inflation
18. Define deflation
19. What are the complications in IABP?
20. How the weaning of IABP will be done?

16 Marks

1. Explain the principle of external counter pulsation techniques.
2. Discuss on Intra Aortic Ballon Pump.
3. Brief on Extracorporeal Circulation.
4. Brief on principle of oxygenators.
5. Explain about the Auxillary ventricle.
6. Explain about the heart lung machine?
7. Explain about the working cardiac valve function.
8. What is the need of Artificial heart valve?

UNIT 2

Assist device

2 Marks

1. Define dialysis.
2. What are the two types of dialysis?
3. What is meant by hemodialysis?
4. What is the function of hemodialysis?
5. What are the types of dialyzers.
6. Difference between peritoneal dialysis and hemodialysis?
7. Principles of DIALYSIS?
8. Principle of haemodialysis?
9. What is meant by Ultra filtration?
10. What is the use of artificial kidney?
11. What is the use of heparin?
12. Define portable dialyzer.
13. What is the membrane dialysis?
14. Define artificial kidney
15. What is the working of peritoneal dialysis?
16. Functional parameter of Wearable artificial kidney.
17. Define Parallel flow dialyzers.
18. Define Coil hemo dialyzers.
19. Define Hollow fibre hemo dialyzers.
20. What is the Need for a bioartificial kidney?

16 Marks

1. Explain the working of kidney?
2. Explain about the working of artificial kidney
3. Discuss on the Principle of Dialysis
4. Brief on function of Hemodialysis
5. Discuss on Membrane dialysis unit
6. Discuss on a portable traditional hemodialysis system.
7. Application of portable dialysis unit.
8. Brief on Fick's Law