

### VERY SHORT ANSWER Type Questions

[1 Mark]

1. Where are semilunar valves present in the heart?
2. Normally a vein opens into a larger vein or into the heart, but does not end in capillaries. Which one or more veins in humans is/are exception to this rule?
3. What do you mean by autoexcitability of SA node?
4. What is the significance of atrioventricular node and atrioventricular bundle in the functioning of heart?
5. Give the name of the instrument that is used to hear the heart sounds.

### SHORT ANSWER Type I Questions

[2 Marks]

6. How are the heart valves helpful in preventing back flow of blood?
7. Give differences between artery and vein (any two points).

8. What is atrial pulse? How much is the normal human pulse rate?

9. What causes the first heart sound?

### SHORT ANSWER Type II Questions

[3 Marks]

10. List the sequence of steps that occur in pumping action of heart during one cardiac cycle.
11. How will you calculate the cardiac output of heart?
12. What are the basis behind reading of an electrocardiogram?

### LONG ANSWER Type Questions

[5 Marks]

13. Describe briefly the conducting system of human heart.
14. Describe step by step what happens in the different phases of cardiac cycle in human.
15. Differentiate between SA node and AV node.