Recap Heart Chapter 12

1. Heart lies ------------ of chest.
2. Heart feels on the left side because its -------- lies on left side and --------, major artery also passes on left side.
3. Heart is covered by a double serous membrane, the ------------------.
4. Cardiac muscle fibers form the thicker middle layer --------------.
5. -------- and -------- vena cava open into -------------- of heart.
6. Right atrium opens into right ventricle through --------------.
7. RV passes blood to pulmonary trunk through -------------- valve.
8. Pulmonary arteries carry oxygen- -- blood to lungs.
9. Pulmonary veins carry oxygen - -- blood to -- of heart.
10. Closure of AV valves produces 1st sound of heart --------.
11. Closure of semi-lunar valves produces the 2nd sound of heart ------------.
12. AV valve on left side is -------------- and on right side is --------------.
13. White thin long stiff structures present in ventricles are ----------.
14. -------- arteries supply blood to walls of heart and arise from aorta.
15. -------- veins collect blood from walls of heart and open into --- that open into right atrium.
16. ---------- is the pace maker of heart.
17. Contraction of ventricles is caused due to depolarization of -------------.
18. Pulmonary circuit carries oxygen poor blood from ---------- of heart to lungs through -------------- and brings oxygen rich blood to ---------- of heart through --------------.
19. The action potential of skeletal muscle fibers is spike like and lasts --------- milliseconds; it results in a ----------- contraction.
20. The action potential of cardiac muscle fibers lasts for --------- milliseconds and results in a slow contraction/relaxation that suits the pumping function of heart because it allows it to fill blood.
21. Contraction of heart is ----------- and its relaxation is 00.00.
22. Systolic pressure of a young healthy adult is ---mm/Hg and diastolic pressure is ---mm/Hg.
23. P-wave represents depolarization of -------- and results in auricular systole.

24. QRS complex represents depolarization of -------- and leads to ventricular systole.

25. T-wave represents activity of ventricular diastole.

26. When blood is passing from ventricles to main arteries -------- valve is open and blood pressure in ventricles is -------- than blood pressure in main arteries.

27. Sympathetic NS releases Epinephrine and -------- heart beat and stroke volume.


29. -------- and -------------- hormones increase both heartbeat and stroke volume; but -------- and ---------- hormones increase only the stroke of volume.