**Aarambh Classes**

**Class VII (CBSE )**

**Science test**

**Time : 1.5 hours M.Marks : 40**

1. **Multiple choice questions** : **110=10**
2. Which of these is responsible for blood clotting :
3. Red blood cells (ii)white blood cells (iii) haemoglobin (iv) platelets
4. Which of the following are the tiny filtering units of the kidney ?:
5. ureter (ii) urethra (iii) nephrons (iv) bladder
6. The process of transportation of glucose in a plant is called :
7. Transpiration (ii)respiration (iii) osmosis (iv) translocation
8. Which of the following is not associated with cyclones ?
9. Strong winds (ii) heavy rains (iii)tidal waves (iv)volcanic eruption
10. Which of these best describes a tornado ?
11. Strong thunderstorm
12. The eye of a cyclone
13. Rotating funnel of high speed wind 10-15 km across
14. Rotating funnel of high speed wind 10-200 m across .
15. The fact that increased wind speed results in reduced air pressure is known as :
16. Galileo principle (ii) Bernoulli principle (iii)Newton principle (iv) Einstein principle
17. The strength of a magnetic field due to solenoid can be increased by ?
18. Increasing the number of turns in the solenoid
19. Winding the solenoid around a magnetic material
20. Increasing the current in the solenoid
21. All of these
22. Which of these is absolutely necessary in an electric circuit ?:
23. Bulb (ii)switch (iii)voltmeter (iv) connecting wires
24. Which of these appliances do not use an electromagnet ?
25. Washing machine (ii)refrigerator (iii)room heater (iv) electric bell
26. The necessary requirement for af use wire is :
27. Conductor with low melting point
28. Conductor with high melting point
29. Insulator with low melting point
30. Insulator with high melting point
31. **Answer the following questions : (3x10=30)**
32. What is an electromagnet ?Give three uses of electromagnets .
33. Can you use a copper wire to make the filament of an electric bulb ? why or why not ?
34. You have seen that the heating effect of current can be put in good use .Can you think of situations where this effect results in wastage of energy ?
35. What is a miniature circuit breaker ?
36. Describe the eye of a cyclone .
37. What causes lightning during a thunderstorm ?
38. Explain why a rubber sucker pressed on a smooth surface gets stuck to the surface .
39. What prevents the blood from going in the wrong direction in the heart ?
40. Why does the rate of heartbeat increase after running ?
41. What does the circulatory system consist of ?Give the main functions of each .