



**ST ALPHONSAS HIGH SCHOOL , TECHNO SECTION**  
**ON - LINE ASSESSMENT**  
**VIII CLASS** **SUB : PHYSICAL SCIENCES**

1. \_\_\_\_\_ are self luminous. [     ]  
(a) planets      (b) meteors      (c) stars      (d) asteroids
2. Great Bear means \_\_\_\_\_. [     ]  
(a) sun      (b) moon      (c) pluto      (d) constellation
3. The diameter of sun is about \_\_\_\_\_. [     ]  
(a)  $1.39 \times 10^8 \text{m}$    (b)  $139 \times 10^8 \text{cm}$    (c)  $13.9 \times 10^8 \text{m}$    (d)  $139 \times 10^8 \text{cm}$
4. The distance between the earth and sun is called \_\_\_\_\_. [     ]  
(a) light year      (b) parsec      (c) astronomical unit   (d) 3.26 light.yr
5. Formation of Helium at high temperature due to collision of Hydrogen atoms is called \_\_\_\_\_. [     ]  
(a) fission      (b) fusion      (c) evaporation      (d) condensation
6. Comets revolve round the sun in \_\_\_\_\_ orbits. [     ]  
(a) elliptical      (b) normal      (c) circular      (d) straight
7. \_\_\_\_\_ are present in the tail of a comet. [     ]  
(a) gases      (b) solids      (c) liquids      (d) droplets
8. Days and nights occur due to \_\_\_\_\_ of earth. [     ]  
(a) oscillation      (b) vibration      (c) revolution      (d) rotation
9. Newton's which law of motion is called law of inertia? [     ]  
(a) II law      (b) I law      (c) III law      (d) I & II
10. Newton's first law of motion gives the concept of \_\_\_\_\_. [     ]  
(a) energy      (b) work      (c) momentum      (d) inertia
11. If the same force is applied on the bodies of masses 2kg and 3kg.  
What is the ratio of their acceleration ? [     ]  
(a)  $a_1:a_2 = 1:2$    (b)  $a_1:a_2 = 3:2$       (c)  $a_1:a_2 = 2:3$       (d)  $a_1:a_2 = 2:1$
12. The \_\_\_\_\_ of a body is directly proportional to the applied force. [     ]  
(a) momentum      (b) acceleration      (c) friction      (d) velocity
13. A nail pushed into a wall was strongly held due to \_\_\_\_\_. [     ]  
(a) force      (b) acceleration      (c) momentum      (d) friction
14. \_\_\_\_\_ is conserved in the collision of bodies. [     ]  
(a) acceleration      (b) momentum      (c) velocity      (d) speed
15. Which is a scalar? [     ]

- (a) velocity (b) uniform velocity (c) uniform speed (d) acceleration
16. If a body covers 10cm in every 1sec. on a curved path. What is the nature of motion of the body? [ ]  
 (a) uniform velocity (b) acceleration (c) uniform speed (d) none
17. If a body is projected upwards, its velocity is zero at \_\_\_\_\_. [ ]  
 (a) stationary position (b) average height (c) maximum height (d) minimum height
18. The Velocity- Time graph of a body moving with constant velocity is a straight line parallel to \_\_\_\_\_ axis. [ ]  
 (a) acceleration (b) force (c) velocity (d) time.
19. Distance covered and speed are scalars because they do not possess \_\_\_\_\_. [ ]  
 (a) direction (b) magnitude (c) units (d) none
20. A car starting from rest and acquires a velocity of 30 m/sec in 5 sec. Its acceleration is \_\_\_\_\_ m/sec<sup>2</sup>. [ ]  
 (a) 10 (b) 1 (c) 2.5 (d) 6
21. The least count of ordinary metre scale is \_\_\_\_\_. [ ]  
 (a) 1m (b) 1mm (c) 1cm (d) 0.1mm
22. Relative Density of glass is \_\_\_\_\_. [ ]  
 (a) 0.8 (b) 8.9 (c) 13.9 (d) 2.5
23. Density of air in kg/m<sup>3</sup> at S.T.P. is \_\_\_\_\_. [ ]  
 (a) 129 (b) 12.9 (c) 1.29 (d) 0.129
24. Measuring jar is used to measure liquids in \_\_\_\_\_. [ ]  
 (a) ml (b) cm (c) lit (d) decilitre
25. Second is the time taken by a \_\_\_\_\_ atom to complete 9,192,631,770 vibrations. [ ]  
 (a) Hydrogen (b) Oxygen (c) Cesium (d) Chlorine
26. The colour of Zinc Oxide when it is hot is \_\_\_\_\_. [ ]  
 (a) white (b) brown (c) yellow (d) dull greenish
27. The gases liberated when Lead Nitrate is heated is \_\_\_\_\_. [ ]  
 (a) NO<sub>2</sub> + CO<sub>2</sub> (b) NO<sub>2</sub> + O<sub>2</sub> (c) NO<sub>2</sub> + Cl<sub>2</sub> (d) NO<sub>2</sub> + H<sub>2</sub>
28. Atomic weight of Neon is \_\_\_\_\_. [ ]  
 (a) 10 (b) 20 (c) 30 (d) 40
29. The chemical name of washing soda is \_\_\_\_\_. [ ]  
 (a) Sodium nitrate (b) Sodium nitrite (c) Sodium carbonate (d) Sodium bicarbonate
30. To form a positive ion, an atom should \_\_\_\_\_ an electron. [ ]  
 (a) gain (b) lose (c) share (d) collect
31. Number of Hydrogen atoms in ammonia is \_\_\_\_\_. [ ]  
 (a) 1 (b) 2 (c) 3 (d) 4
32. The colour of copper sulphate is \_\_\_\_\_. [ ]

- (a) blue                      (b) orange                      (c) red                      (d) yellow
33. The substance that burns in oxygen with a dazzling light is \_\_\_\_\_. [     ]  
 (a) Cu                      (b) Ag                      (c) Mg                      (d) Hg
34. The symbol of the chromium ion is \_\_\_\_\_. [     ]  
 (a)  $\text{Cr}^{3-}$                       (b)  $\text{Cr}^{3+}$                       (c)  $\text{Ch}^{3+}$                       (d)  $\text{Ch}^{3-}$
35. The symbol of the phosphate ion is \_\_\_\_\_. [     ]  
 (a)  $\text{PO}_3^{3-}$                       (b)  $\text{PO}_3^{3+}$                       (c)  $\text{PO}_4^{3-}$                       (d)  $\text{PO}_4^{3+}$
36. The molecular formula is the short term representation of a \_\_\_\_\_. [     ]  
 (a) compound                      (b) element                      (c) mixture                      (d) alloy
37.  $\text{Na}_2\text{C}_2\text{O}_4$  is the formula of sodium \_\_\_\_\_. [     ]  
 (a) carbonate                      (b) formate                      (c) oxalate                      (d) acetate
38. A reaction in which there is transfer of electrons from one reactant to another is called \_\_\_\_\_ reaction. [     ]  
 (a) reduction                      (b) redox                      (c) oxidation                      (d) none
39. When water is decomposed, the following products are formed [     ]  
 (a)  $\text{H}_2$  and  $\text{H}_2\text{O}_2$                       (b)  $\text{O}_2$  and  $\text{H}_2\text{O}_2$                       (c)  $\text{H}_2$  and  $\text{O}_2$                       (d)  $\text{O}_3$  and  $\text{H}_2\text{O}_2$
40. The zero error of a vernier is +2. Its zero correction is \_\_\_\_\_. [     ]  
 (a) 0.2cm                      (b) -0.2cm                      (c) -0.02cm                      (d) 0.02cm
41. The unit of power is \_\_\_\_\_. [     ]  
 (a) Joule                      (b) dyne                      (c) Watt                      (d) Newton
42. The unit of current strength is \_\_\_\_\_. [     ]  
 (a) Ampere                      (b) Candela                      (c) metre                      (d) Newton-metre
43. 1 Horse power = \_\_\_\_\_ Watts. [     ]  
 (a) 746                      (b) 500                      (c) 646                      (d) 700
44. Which of the following is the force per unit area? [     ]  
 (a) work                      (b) pressure                      (c) volume                      (d) area
45. An object is weighed in the following places using a spring balance. In which place will it weigh the heaviest? [     ]  
 (a) Moon                      (b) equator                      (c) at the pole                      (d) outer space
46. When the applied force is doubled, then friction becomes \_\_\_\_\_. [     ]  
 (a) doubled                      (b) halved                      (c) three times                      (d) zero
47. It is easier to pull a lawn roller than to push it ,because pulling \_\_\_\_\_. [     ]  
 (a) involves sliding friction                      (b) involves rolling friction  
 (c) increases effective weight                      (d) decreases normal reaction

\*\*Ramu applied a force of 10 N on a body to move it from rest.He wants to express applied force in terms of various system of units.

48. Express 10 N in terms of dynes [      ]  
(a)  $10^5$                       (b)  $10^6$                       (c)  $10^7$                       (d)  $10^8$
49. Express 10 N force in kgf [      ]  
(a) 98kgf                      (b) 56kgf                      (c) 100kgf                      (d) 84kgf
50. Express 10 N force in gm-cm/sec<sup>2</sup> [      ]  
(a)  $10^5$                       (b)  $10^6$                       (c)  $10^7$                       (d)  $10^4$