1. b) Kg/m^3

2. a) $9.46 \times 10^{15} m$

3. a) Lowering the centre of gravity.

4. b) non- metals.

5. c) electron

6. d) flower

7. b) Nitrogen

8. b) peridontits

9. a) Vibrio cholera

10. d) photographer.

11. one astronomical unit is defined as the average distance between the earth and sun

$$1 AU = 1.496 \times 10^{11} m$$

12. a) mass   -   amount of a substance
    b) Length   -   rope
    c) Density - g/cm^3
    d) Volume - measuring jar.

13. Speed of the bicycle = 4 m/s.
     Time taken by Geetha to reach school from the house = 15 min

$$= 15 \times 60 \text{ sec}.$$

$$= 900 \text{ Second}.$$

$$\text{Speed} = \frac{\text{distance}}{\text{time}} = \frac{900}{4}$$

$$\text{Distance} = \text{Speed} \times \text{time}$$

$$= 900 \times 4$$

$$= 3600 \text{ m}$$

$$= 3.6 \text{ km}$$

Distance between Geetha house and school = 3.6 km

14.   The centre of gravity of an object is the point through which the entire weight of the object appears to act.

15.   a) Distance

      b) Knob.

16.   (N)(N) — molecule of element.

      (Na)(cl) — molecule of compound.

17.   Hydrogen — H_2

      Sulphur — S_8

18.   Atomicity is the total number of atoms present in one molecule of an element.

Compound or a substance.

19. b) Both (A) and (R) are correct and R is not correct explanation.

20. Atomic number is the number of protons or electrons present in an atom.

21. Elements having ~~different~~ Same atomic number (Z) ~~but~~ different mass number (A) are called isotopes.

$$eg: {}_{1}H^{1}, {}_{1}H^{2}, {}_{1}H^{3}$$

22. (i) Asexual reproduction
    (ii) Sexual reproduction.

23. a) True
    b) False. Ginger is an underground stem

24. Wind, Insects, Birds, Bees, Butterflies. and water are the agents of pollination.

25.

Bisexual flower	unisexual flower.
(i) Complete flowers are bisexual flowers.	Incomplete flowers are unisexual flowers.
(ii) Bisexual flowers have both male and female reproductive organ.	In unisexual flower any one of the reproductive organ is present.

26.
a) Typhoid — Salmonella
b) Rabies — Hydrophobia
c) Tuberculosis — Mycobacterium
d) Hepatits — yellow urine.

27. (i) cholera
(ii) Typhoid.

28. Don't throw trash (Garbage) on the ground. Keep our city clean.

29. (i) Porush your teeth two times a day, it will prevent the formation of tartur and plague on teeth and gums.

(ii) When we floss, it will remove food particles, plague and bacteria which build up between our teeth.

30. (i) The 2D images have only two dimensions — length and height. But 3D images have length, height and width.

(ii) 3D images appear in front of our eyes like it happens in the real world.