

**BALABHADRA SKILL DEVELOPMENT ACADEMY**  
**SCIENCE QUESTION BANK - 15**

Time: 1 Hour

Full marks: 49

Pass marks: 39

1. \_\_\_\_\_ of a body is not constant.
- 1(a) Weight of body becomes \_\_\_\_\_ when it is taken to the centre of the Earth.
2. Object having density \_\_\_\_\_ than that of the liquid in which they are immersed, float on the surface of the liquid.
3. The same force can produce \_\_\_\_\_ pressures depending upon the area over which it acts.
- 3(a) Same force acting on a smaller area exerts a \_\_\_\_\_ pressure, and a \_\_\_\_\_ pressure on a larger area.
4. A solid exerts pressure on a surface due to its \_\_\_\_\_.
5. The maximum loss in weight of an object takes place when it is fully immersed in a \_\_\_\_\_.
6. An object will float if the upward buoyant force it receives from the liquid is \_\_\_\_\_ to overcome the downward force of its weight.
7. The relative density of a substance is \_\_\_\_\_ of two similar quantities and it has \_\_\_\_\_.
8. Work is \_\_\_\_\_ when the force is in the direction of displacement and \_\_\_\_\_ when the force acts opposite to the direction of displacement.
9. Work done against \_\_\_\_\_ is an example of negative work.
10. The object which does the work, \_\_\_\_\_ energy and the object on which the work is done, \_\_\_\_\_ energy.
11. Energy exists in nature in several forms such as \_\_\_\_\_, \_\_\_\_\_, \_\_\_\_\_ and \_\_\_\_\_.
12. The sum of the kinetic and potential energies of an object is called its \_\_\_\_\_ energy.
13. The work done by gravity depends on the difference in \_\_\_\_\_ and not on \_\_\_\_\_.
14. Work done is zero if the force and displacement are \_\_\_\_\_ to each other.
15. \_\_\_\_\_ is a mechanical wave because it needs a material medium for its propagation.
16. Sound cannot travel through \_\_\_\_\_.
17. In sound propagation, \_\_\_\_\_ travels and not \_\_\_\_\_.
18. The change in \_\_\_\_\_ from one maximum value to the minimum value and again to the maximum value makes one complete oscillation.
19. The sensation of sound persists in our brain for about \_\_\_\_\_ second.
20. \_\_\_\_\_ depends upon the amplitude of the wave.
- 20(a) Greater the amplitude, \_\_\_\_\_ is the loudness.
21. \_\_\_\_\_ depends upon the frequency of sound.
- 21(a) Greater the frequency, \_\_\_\_\_ is the pitch.
22. \_\_\_\_\_ depends on the shape of the sound wave and distinguishes between \_\_\_\_\_ and \_\_\_\_\_.
23. SONAR stands for \_\_\_\_\_.

82

24. \_\_\_\_ is a device which is used in the ships to locate rocks, icebergs, submarines, etc. and to measure the depth of a sea.
25. Sound waves with frequencies below the audible range are termed \_\_\_\_ and those above the audible range are termed \_\_\_\_.
26. Health of an individual is affected by \_\_\_\_, \_\_\_\_, \_\_\_\_ and \_\_\_\_.
27. The quality of sound depends on \_\_\_\_, \_\_\_\_ and \_\_\_\_.
28. The category to which a disease-causing organism belongs decide the type of \_\_\_\_.
29. \_\_\_\_ are organic compounds which are essential nutrients and need to be taken in the diet.
- 29(a) Vitamins are categorized as \_\_\_\_ and \_\_\_\_.
30. \_\_\_\_ is a major health and nutrition problem.
- 30(a) Kwashiorkor and Marasmus causes damage to \_\_\_\_ and \_\_\_\_ in growing children.
31. Deficiency of various \_\_\_\_ in diet cause different diseases, e.g. anaemia, goitre, etc.
32. As land gets heated faster than water, the air over land gets heated up \_\_\_\_ than that over the water bodies.
33. The quality of the \_\_\_\_ is an important factor that decides biodiversity in that area.
34. \_\_\_\_ help in bringing back the minerals from the living system to the nutrient pool.
35. Due to absence of atmosphere on Moon, the temperature at the Moon ranges from \_\_\_\_ to \_\_\_\_.
36. \_\_\_\_ and \_\_\_\_ gases present in the air dissolve in rain water to form acid rain.
37. Suspended solid particles in the air in the form of smoke, dust and vapours cause \_\_\_\_ and reduces \_\_\_\_.
38. Fresh water is found frozen in the ice-caps at \_\_\_\_ and \_\_\_\_.
39. Kharif crops are grown in \_\_\_\_ season, i.e. from \_\_\_\_ to \_\_\_\_.
40. Rabi Crops are grown in \_\_\_\_ season, i.e. from \_\_\_\_ to \_\_\_\_.
41. \_\_\_\_ farming system comprises healthy farming systems in which there is minimal or no use of chemicals like fertilisers, pesticides, etc. and there is maximum input of organic manures, recycled farm wastes and bio-agents.
42. \_\_\_\_ is a programme introduced in many poor countries to increase food production by use of modern technology, proper irrigation, improved seeds etc.
43. \_\_\_\_ is a programme introduced in India to increase production of milk.

**BALABHADRA SKILL DEVELOPMENT ACADEMY**  
**SCIENCE QUESTION BANK – 15 (ANSWER)**

1. Weight
- 1(a) zero
2. less
3. difference
- 3(a) larger, smaller
4. weight
5. liquid
6. large enough
7. a ratio, no units
8. positive, negative
9. friction
10. loses, gains
11. kinetic energy, potential energy, heat energy, chemical energy
12. mechanical
13. vertical heights of the initial and final positions of the object, the path along which the object is moved
14. perpendicular
15. Sound
16. vacuum
17. energy of sound, particles of the medium
18. density
19. 0.1
20. Loudness
- 20(a) greater
21. Pitch
- 21(a) greater
22. Timber or quality of sound, pleasant sound, unpleasant sound
23. Sound Navigation and Ranging
24. SONAR
25. "infrasonic", "ultrasonic".
26. Physical environment, Social environment, Mental state of an individual, Economic condition
27. Loudness, pitch, timber
28. treatment
29. Vitamins
- 29(a) fat soluble, water soluble
30. Protein energy malnutrition (PEM)
- 30(a) Physical, Mental growth
31. minerals
32. faster
33. topsoil
34. Decomposers
35.  $-190^{\circ}\text{C}$ ,  $110^{\circ}\text{C}$
36. Sulphur dioxide, nitric oxide
37. Haze, visibility

- 38. two poles, snow covered mountains
- 39. Rainy, June, October
- 40. Winter, November, April
- 41. Organic
- 42. Green revolution
- 43. White revolution

BSOA