CBSE Sample Paper -01 (unsolved)
SUMMATIVE ASSESSMENT -II
SCIENCE (Theory)
Class - IX

Time allowed: 3 hours Maximum Marks: 90

General Instructions:

a) All questions are compulsory.
b) The question paper comprises of two sections, A and B. You are to attempt both the sections.
c) Questions 1 to 3 in section A are one mark questions. These are to be answered in one word or in one sentence.
d) Questions 4 to 6 in section A are two marks questions. These are to be answered in about 30 words each.
e) Questions 7 to 18 in section A are three marks questions. These are to be answered in about 50 words each.
f) Questions 19 to 24 in section A are five marks questions. These are to be answered in about 70 words each.
g) Questions 25 to 27 in section B are two marks questions based on practical skills. These are to be answered in about 30 words each.
h) Questions 28 to 36 in section B are multiple choice questions based on practical skills. Each question is a one mark question. You are to select one most appropriate response out of the four provided to you

Section A

1. What is meant by Avogadro's constant?
2. How many chambers are present in heart of :-
   a. Frog
   b. Man
3. Define one watt.
4. Mention characteristics of nucleus of an atom.
5. What are coelenterates? Mention some examples.
6. A boy of mass 60 kg is running at 5m/s. Find work done by him.
7. What are isotopes? Write isotopes of uranium and its uses.
8. Write the formulae of :-
   a. Sodium chloride
   b. Aluminium oxide
   c. Aluminium sulphate

9. Describe three characteristics of the division Bryophyta.
10. Differentiate between Gymnosperms and Angiosperms.
11. Priya's mother uses iodised salt at home. One day while cooking priya asked her mother about iodised salt. She said people who do not use iodised salt suffer from deficiency of iodine which leads to goiter and hypothyroidism.
    a. What are physical symptoms of goiter and hypothyroidism.
    b. How will u inform others about the importance of iodised salt?
    c. Is iodine metal or non metal?
    d. Find physical properties of iodine.
    e. What is difference between iodised salt and normal salt?
12. a. Write full form of AIDS and its causing agent.
    b. Write two ways by which AIDS is transmitted from one person to the other.
13. Define P.E. A person carrying 15 bricks each of mass 2 kg on his head moves to a height of 10m in 30s.Calculate power spent in carrying bricks.($g=10m/s^2$)
14. Define :- a. pitch b. quality c. loudness of sound.
15. Distinguish between loudness and intensity of sound.
16. What is buoyancy? What are the factors on which buoyant factors depends?
17. Define pressure and its S.I unit? Differentiate between thrust and force.
18. Explain between density and relative density with formula.
19. Define each term and give examples.
    a. Isotopes b. Isobars c. Isotones
20. What are symptoms and causes of malaria? How can it be prevented and controlled?
21. State Archimedes principle and verify it with an brief example.
22. a. Describe law of conservation of energy.
    b. Calculate the work done for lifting 500 kg of water through vertical height of 10m. ($g=10m/s^2$)
23. OTBA
24. OTBA

Section-B

25. Explain what happens when some iron nails are dipped in a solution of Copper Sulphate.
26. State some features of Monocots on the basis of leaf.
27. Give some example of third law of motion.

28. Who proposed the law of conservation of mass?

a) Boyle b) Lavoisier

c) Dalton d) Graham

29. On heating a mixture of iron fillings and sulphur, it is observed that:

a) the mixture sublimes b) brown fumes are evolved

c) a grey mass is formed d) no change occurs

30. Fungi shows which type of mode of nutrition

a) autotrophic b) saprophytic

c) heterotrophic d) Ingestive

31. Chitin is _____ in chemical nature.

a) carbohydrate b) protein

c) fat d) vitamin

32. Gymnosperm have _____ seed.

a) three b) naked

c) covered d) no seed

33. Hydra belongs to _____ phylum.

a) coelenterate b) platyhelminthes

c) nematode d) annelida

34. Liquid which has highest density is

a) alcohol b) mercury

c) kerosene d) water

35. Relative density of water is _____.

a) 1 b) 10

c) 100 d) 1000

36. Sound waves cannot pass through

a) vaccum b) glass

c) iron d) air