SSLC EXAMINATION
UNIT TEST – JULY 2021

CLASS   : 10   MARKS   :**50**

SUBJECT: SCIENCE   DURATION:1.30HRS

I   CHOOSE THE CORRECT ANSWER   10X1=10

1. To project the rocket which of the following principle(s) is/are required?
a) Newton's third law of motion   b) Newton's third law of gravitation
c) Law of conservation of linear momentum   d) both a &c

2. Fruits are detached and they fall down from the tree. This is inertia of _____
  a) Motion   b) direction   c) rest   d) None of these

3. The eye defect 'presbyopia' can be corrected by ………………………..
  a) Convex lens   b) Concave lens   c) Convex mirror   d) Bifocal lens

4. Which of the following is a triatomic molecule……………………………
  a) Glucose   b) Helium   c) Carbon dioxide   d) Hydrogen

5. The gram molecular mass of oxygen molecule is
a)16 g   b)18g   c)32g   d) 17g

6. The number of periods and the groups in the periodic table are
a) 6, 16   b) 7,17   c)8,18   d)7,18

7. ……………………… is an important metal to form amalgam.
a) Ag   b) Hg   c) Mg   d) Al

8.The end arch condition is the characteristic feature of _____
  a) Root   b) Stem   c) Leaves   d) Flower

9. Which is formed during anaerobic respiration?
a) Carbohydrate   b) Ethyl alcohol   c) Acetyl COA   d) Pyruvate

10. During transpiration there is a loss of _____
 a) Carbon dioxide   b) oxygen   c) Water   d) None

II Answer briefly (Any 15)   15X2=30

11. Classify the types of force based on their application.

12. Differentiate mass and weight (any two differences)

13. State Newton's third law.

14. Write the uses of concave lens.

15. Differentiate convex lens and concave lens.

16. What are the causes of Myopia?

17. Calculate the relative molecular mass of water [H_2O]. [Atomic mass of hydrogen=1, Atomic mass of oxygen=16]

18. Define atomicity.

19. Give any two examples for heterodiatomic molecules.

20. What is rust? Give the equation for the formation of rust.

21. State two conditions necessary for rusting of iron.

22. Choose

        a) _____group contains the member of halogen family (16/17)

        b) The process of coating the surface of metal with a thin layer of zinc is called _____ (electroplating / galvanization)

23. Draw and label the structure of oxysomes.

24. What is photosynthesis and where in a cell does it occur?

25. What are the two types of respiration?

26. What is heart sound? How are they produced?

27. What is the importance of values in the heart?

28 What is transpiration?

III Answer any one question from each section in detail   2X5=10

Section – A

29. a) List any three properties of light? (3 Marks)

    b) Give the types of inertia. (2 Marks)

30. Give the salient features of "Modern Atomic theory"

Section – B

31. a) Differentiate aerobic and anaerobic respiration.(3 Marks)

    b) Write the equation for photosynthesis. (2 Marks)

32. Write any five functions of blood.