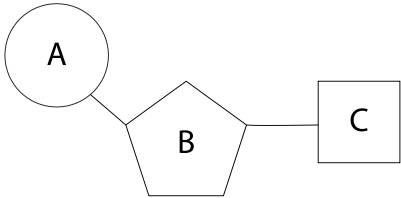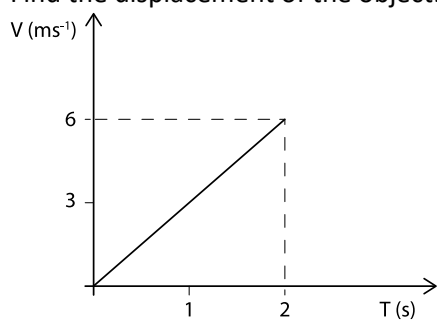## GRADE 10 - FIRST TERM EVALUATION, 2020

SCIENCE 1

Answer All Questions.

1. Elemental composition of Protein is,
   - i. C, H, O
   - ii. C, H, O, N, P
   - iii. C, H, O, N
   - iv. C and H only

2. The sweetest sugar is,
   - i. Glucose
   - ii. Fructose
   - iii. Galactose
   - iv. Maltose

3. The most abundant compound present in the living matter is,
   - i. Lipids
   - ii. Proteins
   - iii. Water
   - iv. Carbohydrates

4. The symptom that could be observed with a person subjected to iodine deficiency,
   - i. Goiter
   - ii. Retardation of physical growth
   - iii. Increase of blood glucose level
   - iv. Deformation of bones

5. A monosaccharide present mostly in dairy product is,
   - i. Glucose
   - ii. Sucrose
   - iii. Fructose
   - iv. Galactose

6. The diagram given below is,

   - i. DNA
   - ii. RNA
   - iii. Nucleotide
   - iv. Protein

7. The parts ABC of above diagram respectively
   - i. Nitrogenous base, Phosphate group, Pentose sugar group
   - ii. Phosphate group, Pentose sugar group, Nitrogenous base
   - iii. Pentose sugar group, Phosphate group, Nitrogenous base
   - iv. Pentose sugar group, Nitrogenous base, Phosphate group

8. Starch, Cellulose and Glycogen are,
   - i. Monosaccharides
   - ii. Disaccharides
   - iii. Polysaccharides
   - iv. Amino acids

9. The Polysaccharide that stores in animal body is,
   i. Glycogen   iii. Inulin
   ii. Starch   iv. Chitin

10. The incorrect statement about DNA is,
    i. DNA has double helix structure.
    ii. The DNA has been replicated
    iii. Mutations occur in DNA molecules
    iv. It contains C, H, O and K

11. Which of the following is vector quantity?
    i. Speed   iii. Velocity
    ii. Pressure   iv. Distance

12. An inorganic compound present in the bodies of organism is,
    i. Protein
    ii. Minerals
    iii. Carbohydrates
    iv. Nucleic acids

13. SI unit of measuring velocity is,
    i. ms^{-1} iii. ms^{-2}
    ii. m iv. s

14. What is the constant quantity of an object falling down freely vertically downwards?
    i. Acceleration   iii. Velocity
    ii. Displacement   iv. Speed

15. Find the displacement of the object.

    i. $6m$ iii. $8m$
    ii. $3m$ iv. $12m$

16. The distance traveled by a car is $400km$ within 5 hours. The average speed of the car is,
    i. $40kmh^{-1}$ iii. $800kmh^{-1}$
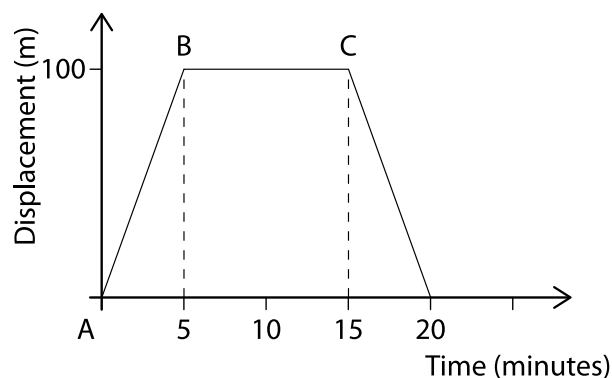   ii. $80kmh^{-1}$ iv. $400kmh^{-1}$

The graph indicates Samiru's route to his school and back home.

17. The time taken to go to the school is,
    i. $5 \, min$
    ii. $15 \, min$
    iii. $20 \, min$
    iv. $10 \, min$

18. The time he spent in the school is,
    i. $5 \, min$
    ii. $8 \, min$
    iii. $10 \, min$
    iv. $15 \, min$

19. His total displacement,
    i. $100 \, m$ ii. $50 \, m$ iii. $200 \, m$ iv. $0 \, m$

20. Time taken to return home from school is,
    i. $15 \, min$ ii. $5 \, min$ iii. $10 \, min$ iv. $0 \, min$

21. An example for pure substance,
    i.   Salt solution   iii. Water
    ii. Sugar solution   iv. Lime Solution

22. The atomic number of an element is the number of,
    i.   Electrons   iii. Neutrons
    ii. Protons   iv. Protons + Neutrons

23. The element having the highest electro negativity is,
    i. K   ii. Na   iii. Cl   iv. F

24. Not an allotrope of carbon,
    i.   Diamond   iii. Quartz
    ii. Graphite   iv. Coal

25. Element belong to metalloid is,
    i. B   ii. C   iii. S   iv. P

26. Special property of water due to intermolecular forces among water molecules is,
    i.   Density of water is higher than the density of ice.
    ii. Having less specific heat capacity.
    iii. Having less boiling point.
    iv. Existing as a gas in room temperature.

27. The type of friction which carry on a moving object is,
    i.   Limiting friction
    ii. Dynamic friction
    iii. Static friction
    iv. Normal friction

28. The incident which cannot be explained using Newton's Law is,
    i.   Rowing a boat using oar.
    ii. Moving a rocket upward.
    iii. Reverse movement of gun when firing.
    iv. Starting a vehicle by busing.

29. Weight of a car along with the passenger is $6000N$ when it moves in a velocity of $4\ ms^{-1}$,
    The momentum is,
    i. $2400N$
    ii. $2400Kgms^{-1}$
    iii. $24000N$
    iv. $24000Kgms^{-1}$

30. "The Acceleration of a body is directly proportional to the un balanced force acting on it,
    while it is inversely proportional to its mass" What is that law?
    i.   Newtons First Law
    ii. Newtons Second Law
    iii. Newtons Third Law
    iv. Archimedes' Law