Name _____ Assessment No. _____

School _____ Date _____

Instructions: This paper consists of two sections A and B **TIME: 1HR. 20MIN**

SECTION A: (15 MARKS)

1. Which one of the following **best** describes Integrated Science?
   A. The study of only Biology
   B. The study of only Chemistry and Physics
   C. The study of Science by combining different subjects like Biology Chemistry and Physics
   D. The study of scientific theories without practical application
2. What is the first and most important rule to follow when working in a Science laboratory?
   A. Taste and feel by hand all chemicals
   B. Follow all instructions given by the teacher
   C. Always learn from the laboratory whether the teacher is present or not
   D. Carry food and snacks whenever in the laboratory
3. Your lab partner accidentally spills a small amount of acid on their skin. What is the first aid procedure you should follow?
   A. Immediately apply a bandage
   B. Neutralize the acid with a base
   C. Rub the area with a dry cloth
   D. Wash the affected area with plenty of running water
4. Which one of the following safety symbols warns about flammable materials?

A. 

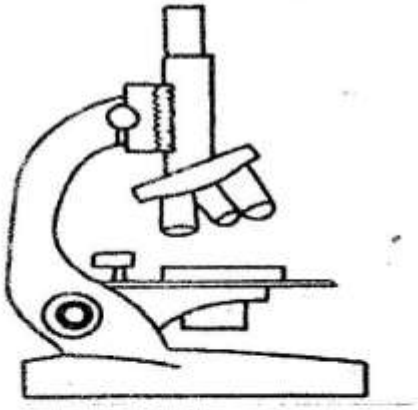
B. 

C. 

D. 

5. A learner measured a liquid and expressed its density in the SI unit. What was the SI unit?
   A. Kelvin
   B. Metres
   C. Kilograms
   D. Kilogram per cubic metre
6. Which of these is **not** a common accident in Integrated Science laboratory?
   A. Burns
   B. Fractures
   C. Scalds
   D. Cuts

7. A Grade 7 learner assembled apparatus and successfully carried out an experiment. Which scientific skill did the learner apply?
   A. Manipulative skill
   B. Measuring skill
   C. Prediction skill
   D. Communication skill
8. A certain part in female reproductive system is where fertilization takes place. Which part is it?
   A. Oviduct
   B. Ovary
   C. Womb
   D. Vagina
9. All the following are uses of acid-base indicators in real life situation. Which one is **not**?
   A. Testing of soil
   B. Testing water in a swimming pool
   C. Manufacture of products
   D. Used in water treatment
10. Which part of a microscope is used to adjust the amount of light passing through the specimen?



   A. Eyepiece
   B. Objective lens
   C. Diaphragm
   D. Stage clips
11. Which of the following is a physical property of acids?
   A. They react with metals to produce hydrogen gas
   B. They feel slippery to the touch
   C. They turn red litmus paper blue
   D. They have a sour taste
12. In a simple electric circuit, if the wire is broken, what happens to the flow of electricity?
   A. It increases
   B. It stops
   C. It becomes intermittent
   D. It becomes stronger
13. Which of the following is a primary role of the skin in the human excretory system?
   A. Filtering blood
   B. Producing urine
   C. Excreting excess salts and water through sweat
   D. Storing waste products
14. A mixture of oil and water is an example of a
   A. heterogeneous mixture
   B. solution
   C. homogeneous solution
   D. compound
15. Which of the following is a source of electrical energy that is considered renewable?
   A. Coal
   B. Natural gas
   C. Solar energy
   D. Petroleum

SECTION B: (35MARKS)

Answer all questions in space provided

16. Identify any **four** sources of electricity in Kenya. (4mks)

(i). _____

(ii). _____

(iii). _____

(iv). _____

17. When students were making acid base indicator from plants, they crushed flower pigments that dissolve in ethanol.

(a). Give a reason why crushing is done (2mks)

_____

_____

(b). Afterwards the extract was added to wood ash solution and orange juice solution. State whether the substances are either acidic or basic (2mks)

_____

_____

(c). Identify **three** commercial indicators in acidic and basic solutions. (3mks)

(i). _____

(ii). _____

(iii). _____

18. There are some lifestyles that are very important for a healthy skin. State **four** lifestyles that promote a healthy skin. (4mks)

(i). _____

(ii). _____

(iii). _____

(iv). _____

19. The blood circulatory system consists of the heart, blood vessels and blood. Mention the **three** types of blood vessels through which blood is pumped. (3mks)

(i). _____

(ii). _____

(iii). _____

(iv). _____

20. (a). Explain how one can separate the following mixtures;

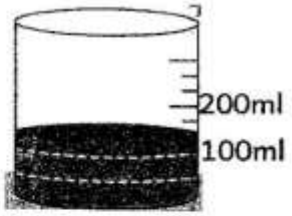
(i). Sand and water (2mks)

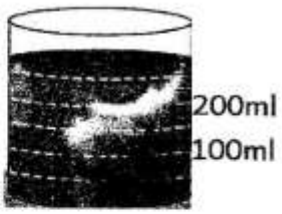
(ii). Salt and water

(iii). Salt and iron filings

21. During a practical lesson, learners were instructed on the proper use of a Bunsen burner. Describe the procedure for lighting a Bunsen burner safely. (3mks)

22. Study the diagram of the following cyclinder below and answer the questions, that follow.





(a). Name the apparatus shown in the diagram above . (1mk)

(b). Explain why a measuring cylinder is preferred over a beaker for measuring the volume of liquids in an experiment. (2mks)

23. Ojwang's temperature measured at 42°c. What is the temperature in the SI unit? (2mks)

24. Below are various quantities that are used in our daily life. Group them into basic quantities and derived quantities. (3mks)

(Area, Length, Time, Volume and Density)

Basic quantities	Derived quantities