

## SECTION A: 40 MARKS

Question 1 to 40 carry one mark each.

1. Name the gas used in fire extinguisher.

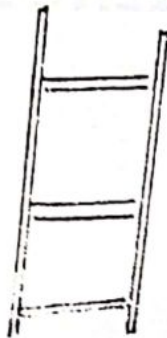
2. Which element of PHC cares for accident victims?

3. Why is a bat regarded a warm blooded animal?

4. State the disease that affects ~~and~~ and spread by houseflies.

5. Give any one way in which wood fuel can be conserved in the environment.

The diagram below is of a simple machine. Use it to answer the question that follows.



6. To which group of simple machines does it belong?

7. Give the difference between breeds of poultry and types of poultry?

8. Name one non-metal conductor of electricity used in dry cells.

9. Which plant resource provides raw materials for textile industries?

10. Apart from mushrooms, name one other useful fungus.

11. State the best method a teenager girl can use to avoid pregnancy.

12. How do birds benefit from trees in the environment?

13. Give one common cause of illness in a home.

14. In the space below, draw a diagram showing a red blood cell.
15. State the function of red blood cells during blood circulation.
16. What causes short circuit in buildings?
17. State the class of levers in which the effort is between the fulcrum and load.
18. What role does a family play in the immunization of children?
19. Name one care you can give to an elderly person.
20. Why are ventilators put above windows and doors on a living house?
21. Which delicate body organ is protected by the back bone?
22. Why does a blue shirt appear blue when light rays fall on it?
23. How are nocturnals able to identify flowers at night?
24. Which childhood immunisable disease is caused by a virus and belong to water borne diseases?
25. Name any one drug commonly abused by adolescents in our societies.
26. Which component of circulatory system is affected by eating too much animal fats?
27. Why do electricians use nitrogen gas in making electric bulbs?
28. Name the human body organ that produces heat.



29. Which type of eclipse occurs when the moon comes in between the sun and the earth and the sun is encircled by a ring?

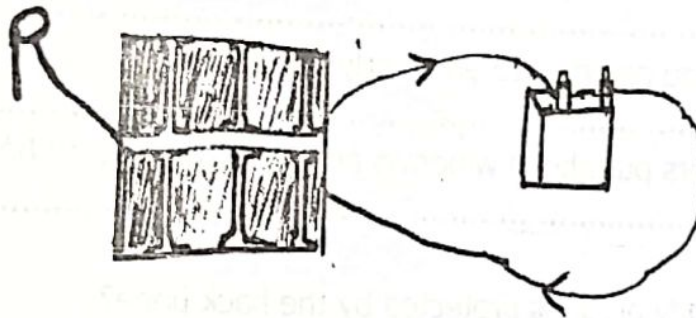
30. Why is breast milk the best food for a newly born baby?

31. What is the purpose of a strip cup on a livestock farm?

32. What happens to biceps muscles when the arm is straightened?

33. Name the annual crop that undergoes hypogeal germination.

**Study the diagram and use it to answer questions 34 and 35.**



34. Name the energy resource harvested using the above equipment.

35. Give the reason why device P is always painted black.

Below is a metallic spoon placed in a container of water. Use it to answer question 36.



36. Give one reason why the spoon appears bent in the diagram above?

37. Why are the leaves of banana suckers always cut off before planting?

38. Name the disease in human beings which is caused by bacterium called shigella?

39. Suggest one way of caring for the human teeth.

40. What is photosynthesis?

### SECTION B

41. What is fainting?

(b) State the major cause of fainting.

(c) Why should the legs of a fainted casualty be raised higher than the head?

(d) Mention one other first aid that may be given to a person that has fainted.

42. (a) Why is water called matter?

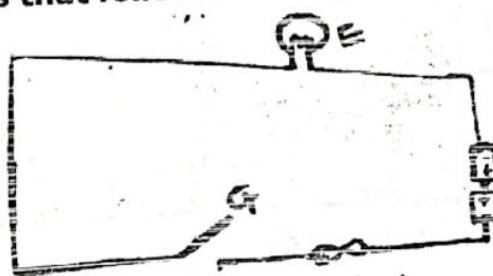
(b) In which state of matter is water at  $0^{\circ}\text{C}$ ?

(c) Name the form of energy used for:

(i) boiling water.....

(ii) Communication.....

43. The diagram below shows an electric circuit, study and use it to answer the questions that follow correctly.



(a) Name the parts marked:

G.....

E.....

(b) Why would part E fail to produce light when G is closed?

(c) State the use of part F in an electric circuit.



44. (a) Apart from brushing, give another way of promoting oral health.

(b) Give any two kinds of teeth found in the human mouth.

(i).....

(ii).....

(c) What is the function of the blood vessels in the pulp cavity?

45. (a) Give two examples of pest damages that occur to crops in the garden.

(i).....

(ii).....

(b) Write down two examples of insect crop pests.

(i).....

(ii).....

46. (a) Name the two main layers of the human skin.

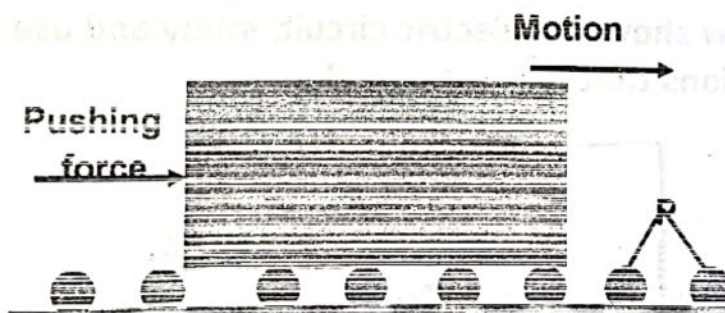
(i).....

(ii).....

(b) Apart from feeling, give any other one function of the human skin.

(c) Which part of the human skin enables it to feel temperature?

47. The diagram below shows force being exerted on a wagon. Study it carefully and answer questions that follow.



a) Name structures labeled P.

b) How do the above structures reduce friction in machines?

c) Apart from using the structures above, how else can one reduce friction in machines?

d) State the law of moments.

48. Complete the table below.

Disease	Vaccine	Immunisable Site
(i).....	BCG	Left upper arm
(ii) Measles	measles vaccine	.....
(iii) Polio	.....	Mouth
(iv) Tetanus	.....	Left upper thigh

49. (a) Name any two methods of wood harvesting.

(i).....

(ii).....

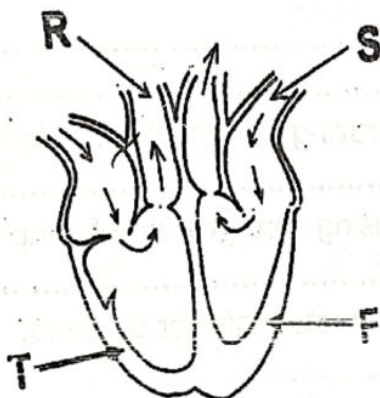
(b) Give any one way crops benefit from agro-forestry.

.....

(c) State any one way we can make use of wood.

.....

50. The diagram below is of a human heart. Study it and answer questions that follow.



(a) Which type of blood is carried by blood vessels marked?

(i) R.....

(ii) S.....

(b) Why is part marked F thicker than part T?

.....

(c) Which body organ is blood vessel S transporting blood from?

.....

51. Match each part of a lens camera in list T with the functions in list K.

List T

Aperture

Diaphragm

Shutter

Lens

List K

focuses a real image on the film

controls the amount of light

controls the size of the aperture

opens and closes to control the time of the photographic exposure



- (i) Aperture .....
- (ii) Diaphragm .....
- (iii) Shutter .....
- (iv) Lens .....

52. (a) Name any two types of germination.

- (i) .....
- (ii) .....

(b) Apart from warmth, name two other conditions necessary for germination to take place.

- (i) .....
- (ii) .....

53. (a) Give any two requirements for starting a zero grazing system of keeping goats. ☐

- (i) .....
- (ii) .....

(b) State the reason why zero grazing system is possible in urban farming.

(c) State any one advantage of using zero grazing of keeping goats.

54. (a) Give any two ways of making water safe for drinking.

- (i) .....
- (ii) .....

(b) State one danger of allowing animals to drink water from water source.

(c) Give one way of protecting animals from contaminating water sources.

55. (a) What are malnutritional diseases?

- (i) .....
- (ii) .....

(b) Mention any two examples of malnutritional diseases.

- (i) .....
- (ii) .....

(c) State the best way of preventing malnutritional diseases.

**\*\*Success\*\***