

NAME:

**SCHOOL:** 



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## **SECTION A: 40 MARKS**

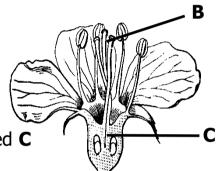
Questions 1 to 40 carry one mark each.

- Give any one function of roots to the plants.
- ✓ The roots absorb water and mineral salts from the soil.
- $\checkmark$  The roots anchor (hold) the plant firmly in the ground.
- $\checkmark$  Some roots store food for the plant.
- 2. How does brushing of the teeth after every meal prevent tooth decay (dental caries)?
- ✓ Tooth brush bristles help to remove food remains between the teeth that would cause dental caries or tooth decay.
- 3. Give the type of weather which enables the spawn to hatch
- ✓ Sunny weather (Reject: Sunshine because it is an element of weather)
- 4. What is the importance of adhesive bandage in giving first aid to a casualty?
- $\checkmark$  Adhesive bandage helps in dressing small cuts and wounds.
- 5. Give **one** reason why the sea is cooler than land during day time.
- ✓ Water reflects heat while land absorbs heat.
- ✓ Sun rays go deep into water since it is transparent unlike land.
- ✓ Water waves mix the warm water at the Surface with cool water below it.
- 6. How does a swim bladder keep a bony fish buoyant?
- $\checkmark$  A swim bladder reduces the density of a bony fish's body.

The diagram below shows equipment used on a cattle farm. Use it to answer uestion 7.

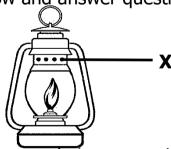
- 7. How important is the above equipment to a cattle farmer who lives in Mbarara?
- √ The above equipment helps (aids) a cattle farmer to detect the presence of mastitis in milk.
- 8. How do muscles work?
  - √ By contraction and relaxation
- 9. Name the fungal sexually Transmitted disease.

- ✓ Candidiasis (Reject: Candida)
- 10. State **one** way in which the vent pipe of a VIP latrine helps to control air pollution.
  - √ The vent pipe lets out bad smell that would cause air pollution.
- 11. Why does a dead body (corpse) become cold?
  - √ The liver that produces heat has stopped working.
  - ✓ It is due to stopped blood circulation which distributes heat in the body.
- 12. How does alcohol worsen stomach ulcers?
  - ✓ It leads to loss of appetite for food
  - ✓ The diagram below shows a flower. Use it to answer questions 13 and 14.



- 13. Name the part marked **C** 
  - ✓ Receptacle
- 14. What happens to part marked B when pollen lands on it?
  - ✓ A pollen tube develops.
- 15. Apart from digestion of food, mention any one other chemical change that takes place in the life of living things.
  - ✓ Respiration.
- 16. Mention any **one** indicator of roundworm infestation in humans.
  - ✓ Vomiting // Anaemia // Diarrhoea // Pale skin// Stunted growth in children // Weight loss of the body.

Study the diagram below and answer questing 17 and 18.



- 17. Why is the glass chimney made transparent?
  - ✓ To allow out light
- 18. Give the function of the part labelled X.
  - ✓ Part labeled X (Part x) lets out stale air.
- 19. Why is VIP latrine said to be improved?

- ✓ It does not smell badly.
- 20. Why is the sun regarded as the primary Source of energy?
  - ✓ All energy resources originate from the sun directly or indirectly
- 21. Why is the filament of an electric bulb made of thin coiled wire?
  - √ To increase electrical resistance to produce more heat and light.
- 22. Apart from quill (flight) feathers, give any other type of feathers.
  - ✓ Covert (body) feathers // Down feathers//filoplume feathers.
- 23. Name any **one** traditional method of preserving food stuffs.
  - ✓ Smoking // Sun drying.
- 24. How does painting prevent rusting of metals?
  - ✓ Paint cuts off oxygen and moisture supply to the metal.
- 25. What happens to the air in the nose?
  - ✓ Air is filtered, warmed and moistened
- 26. How do ball bearings reduce frictional force?
  - ✓ Ball bearings keep the moving parts of machines separate.
- 27. State any **one** way in which UNEPI promotes immunization.
  - ✓ UNEPI organises National Immunization Days.
  - ✓ UNEPI provides immunization equipment.
  - ✓ UNEPI distributes vaccines to health centres
  - ✓ UNEPI educates people about immunization.
- 28. Apart from sunbird, Mention **one** other bird that pollinates flowers.
- ✓ Humming bird.
- 29. How are leucocytes able to defend the body against germs?
- √ Through engulfing and digesting germs
- √ Through producing more antibodies against disease germs.
- √ Through producing more antigens against disease germs.
- 30. Name the mineral deficiency disease prevented by eating food rich in iron.
- ✓ Anaemia.
- 31. How do scorpions reproduce?
- ✓ Scorpions reproduce by giving birth to live young ones.
- 32. In the space provided below, draw a garden tool used when harvesting cereal crops like rice.
- 33. Why do farmers keep table birds?
- ✓ For meat production.

- 34. Mention any **one** part in the human body where a ball and socket joint is found.
- √ Shoulder / Hip/Pelvis.
- B5. How does a hedgehog protect itself from enemies?
- √ A hedgehog rolls up itself into a spiny ball
- 36. Apart from the sun, Mention any **one** other non-living renewable energy resource.
- ✓ Water / Air
- 37. How is ash formed?
- √ Through burning wood in unlimited supply of oxygen.
- 38. Study the diagram below and draw an arrow to show the flow of elections.



- 39. Give a reason why a male anopheles mosquito cannot spread germs that cause malaria to humans.
- ✓ Male anopheles mosquito does not feed on blood but rather feeds on plant juice. Or Male anopheles mosquito feeds on plant juice but not blood.
- 40. Why is sound heard clearly at night than during day time?
- ✓ At night, temperature is low and sound waves travel nearer the ground than during day time.

**SECTION B: 60 MARKS** 

Questions **41** to **55** carry four marks each.

- 41. (a) What is Primary Health Care?
- ✓ Primary Health Care in the programme in which individuals, families and communities work together to solve their health problems
  - (b) State the element of PHC which is promoted by each of the following
  - i) Immunization of children and mothers.
- ✓ Maternal and childcare.
  - ii) Educating people about how communicable diseases are spread.
- √ Health Education
  - iii) Eating a balanced diet
- √ Food and Nutrition.

42. The diagram shows two houseflies X and Y which put the head and the abdomen in the wheat flour. Study them and answer the questions.





a) Which of the **two** houseflies will die after a short time?

## √ Housefly Y / Y

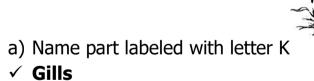
- b) Give a reason for your answer in (a) above;
- √ The spiracles used for breathing are blocked by wheat flour.
  - c) Which housefly will not die?
- √ Housefly X/X
  - d) Give a reason for your answer in (c) above.
- √ The breathing organs (spiracles) are not blocked by the maize flour.
- 43. The table below shows groups of birds, their examples and types of food.

  Study and complete it correctly.

<b>Groups of birds</b>	Example	Type of food
Swimming birds	Seagulls	Water weeds
Birds of prey	Buzzard	<u>Flesh</u>
Scratching birds	Chicken	Cereals , worms
Climbing birds	<u>Woodpecker</u>	Insects

- 44. (a) Identify the force of attraction between molecules of the same substance,
- √ Cohesion force // Cohesion
  - (b) Name the state of matter in which molecules are closely packed together
- √ Solid state of matter/ solid state
  - (c) Mention **two** changes of states of matter caused by heat loss:
- √ Freezing// Deposition //Condensation
- 45. (a) What is diarrhoea?
  - ✓ Frequent passing out of watery stools.
  - (b) state the immediate effect of diarrhoea.

- ✓ Dehydration
- (c) Suggest any **two** health practices an individual should do to prevent diarrhoea
  - ✓ Washing hands with clean water and soap after visiting the latrine(toilet)
  - √ Washing hands with clean water and soap before eating.
  - ✓ Smoking pit latrines// Boiling drinking water.
- 46. (a) Define the term pollination.
  - ✓ Pollination is the transfer of plant pollen from anthers to the stigma of a flower on the plant.
  - (b) How are the pollen grains similar to sperm cells in males?
    - ✓ Both pollen grains and sperm cells are male gametes.
    - ✓ Both pollen grains and sperm cells are male reproductive cells.
  - (c) What is the use of each of the following during pollination
    - i) Anthers- To produce pollen grains
    - ii) Stigma- To receive pollen grains
- 47. The diagram below shows a mushroom. Use it to answer the questions that follow.



- b) How is part marked M useful to a mushroom?
- ✓ To protect the gills
- c) Give **two** food values obtained from eating mushrooms.
- ✓ Proteins
- √ Vitamin B1
- 48. (a) Mention any **one** seed dispersed by explosive mechanism
  - ✓ Peas seed / bean /castor oil seed/ dutch man's pipe seed.
  - (b) How is the black jack adapted to animal dispersal?
  - ✓ Black jack has hooks to attach itself on fur of animals.

(c) State any **two** characteristics of seeds dispersed by wind. ✓ Some seeds have parachute like structure. ✓ Some seeds have wing like structures ✓ Some seeds have a tuft of hair. 49. (a) Give any **one** difference between heat and temperature. √ Heat is a form of energy that increases the temperature of an object while temperature is the degree of hotness or coldness of an object. How is a constriction of thermometer similar to a valve in veins?" (b) ✓ Both a constriction and a valve prevent the backward flow of liquids. Reject: fluids because fluids also mean gasses. (c) Give **one** reason why gaps are left between rails during construction. ✓ To Leave room for expansion on hot days. 50. (a) Which health condition in human beings results from reduced supply of oxygenated blood to the brain 7 **√Fainting (Reject** *Dizziness*) (b) Write down any **two** factors that can lead to the health condition above in human beings. √ Vigorous body physical exercises // Alcoholism //Severe pain ✓ Dehydration //Prolonged hunger. ✓ Prolonged standing in sunshine //Receiving shocking news. (d) How can a casualty with the health condition above be helped to allow the flow of oxygenated blood to the brain? ✓ By raising the casualty's leg higher than the head. 51. The bar graph below is of parts of air. Study and use it to answer questions that follows D C В

- a) Name the part of air marked C in the bar graph above.
- ✓ Rare gases/Inert gases/Noble gases
- b) Which letter represents the part of air that supports combustion in the bar graph above
- ✓ Letter B/B
- c) What is the importance of part of air marked **D** in the bar graph above?
- ✓ Part of air marked D is used as preservative in carbonated (fizzy drinks)
- ✓ Used in fire extinguisher to put out fire.
- d) Name the part of air marked letter with letter A in the bar graph above.
- ✓ Nitrogen gas/Nitrogen
- 52. (a) Name the example of alternating current electricity produced by burning uranium in a nuclear reaction
- √ Atomic electricity / Nuclear electricity
  - (b) State the energy change that occurs in generation of nuclear electricity
- √ Chemical energy changes to electrical energy
  - (c) Apart from the above current electricity give any other **two** examples of current electricity.
- √ Hydroelectricity
- ✓ Thermal electricity.
- ✓ Geothermal electricity
- ✓ Solar electricity
- 53. (a) What name is given to a special structure in which chicks are cared for?
  - ✓ Brooder.
  - (b) Write down any **two** types of brooder.
    - ✓ Infrared lamp brooder
    - ✓ Kerosene brooder
    - ✓ Charcoal brooder
  - (c) Give a reason why infrared lamp is raised.
    - √ To prevent the chicks from being burnt.
- 54. (a) state how the following are useful to the fish
  - i) Operculum
    - ✓ It protects the gills from damage

- ii) Streamlined body.
  - √ To reduce (overcome) viscosity friction in water.
  - √ To reduce water resistance during swimming / movement.
- iii) Lateral line
  - √ For detecting sound vibrations in water for hearing
  - √ For detecting pressure changes in water.
- (b) What name is given to animals whose body temperature varies with that of the surroundings?
  - √ Cold blooded vertebrates / poikilothermic
- 55. Match the items in List A with those in List B correctly.

List A List B

Herbicides Insect vectors

Pesticides weeds
Acaricides ticks
Insecticides pests

(i) Insecticides insect vectors

(ii) Acaricides Ticks(iii) Pesticides Pests

(iv) Herbicides Weeds

**END**