



# KARLMARX EDUCATION SERVICES

MOCK EXAMINATIONS 2023

PRIMARY SEVEN

SCIENCE

Time allowed: 2hrs 15min

| Random No. |  |  |  |  |  | Personal No. |  |  |
|------------|--|--|--|--|--|--------------|--|--|
|            |  |  |  |  |  |              |  |  |

Candidate's name: .....

Candidate's Signature: .....

District ID: 

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**Read the following instructions carefully:**

1. The paper has **two** sections: **A** and **B**
2. Section **A** 40 questions (40 marks)
3. Section **B** has 15 questions (60 marks)
4. Answer **ALL** questions in both Sections **A** and **B**.
5. All answers to both Sections **A** and **B** must be written in the spaces provided.
6. All answers must be written using a blue or black ball point pen or ink. **Diagrams should be drawn in pencil.**
7. Unnecessary crossing of work may lead to loss of marks.
8. Any handwriting that cannot be easily read may lead to loss of marks.
9. Do **not** fill anything in the boxes indicted For Examiner's use only.

| FOR EXAMINER'S USE ONLY |      |      |
|-------------------------|------|------|
| PAGES                   | MARK | SIGN |
| SIGN                    |      |      |
| Page 2                  |      |      |
| Page 3                  |      |      |
| Page 4                  |      |      |
| Page 5                  |      |      |
| Page 6                  |      |      |
| Page 7                  |      |      |
| Page 8                  |      |      |
| TOTAL                   |      |      |

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**SECTION .A. (40 Marks)**

1. Identify any one example of non-living energy resources.

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2. What name is given to the vertical arrangement of soil layers?

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3. State one importance of birds like marabou storks and crows in the environment.

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4. Give any one reason why mothers should feed their babies exclusively on breast milk for the first six months.

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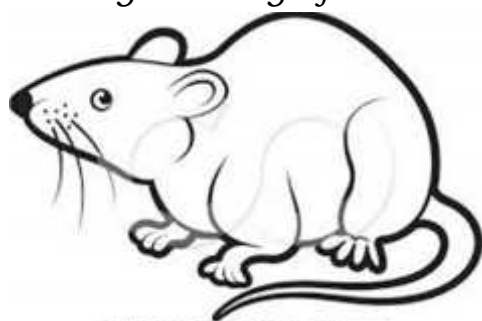
5. Why does sugar put and stirred in water disappear after a short time?

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6. State any one way in which the human skin regulates body temperature.

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7. Identify the biological way of controlling the crop pest below in the store.



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8. Write one way crop farmers can keep moisture in their gardens during the dry season.

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9. Name the standard units used in measuring mass.

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10. Identify the way sound energy from a flying aeroplane in the sky reaches a person standing on earth.

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11. State one reason why people should sleep under mosquito nets in their homes during the night.

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12. *Peter's family has a latrine where ash is poured on faeces after use. What is the purpose of pouring ash on faeces?*

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13. *Which component of blood carries oxygen from the lungs to other body parts?*

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14. *Identify the reason why harvesting of honey is usually done during the evening.*

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15. *Mention any one example of exotic breeds of rabbits.*

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16. *State the first aid for nose bleeding.*

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17. *Write down any one danger of poor disposal of rubbish in a community.*

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18. *In which way is fire important in the process of making pots?*

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19. *State one way in which docking is an important practice in rearing of sheep.*

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20. *Give one reason why the weight of an object reduces when it is in water.*

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21. *Write the reason why panadol is classified under essential drugs.*

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22. *State the difference between music and noise as used in the study of sound.*

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23. *Write the role played by generators in the production of hydro electricity.*

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Use the diagram below to answer questions 24 and 25



24. State the class of levers does the above machine belong?

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25. Use an arrow and letter P to show the position of fulcrum

26. State the importance of cilia in the respiratory system of human beings.

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27. In which way does toothpaste prevent tooth decay?

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28. How is the function of the switch different from that of a fuse in an electric circuit?

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29. Give the reason why most people usually use clay made charcoal stoves in cooking instead of metallic ones.

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30. State one reason why the earth is called a giant magnet.

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31. Write down any one advantage of crop rotation.

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32. In which way are burns similar scalds?

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33. State the advantage of making most handles of tools rough.

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34. Give any one example of crustaceans.

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35. Write one way the community can inform its people about the importance of immunization.

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36. State one way water impurities get into water sources in our community.

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37. Identify the type of leaf venation drawn below



38. How are splints helpful in giving first aid to a casualty who has a fractured limb?

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39. Name any one mammal that reproduces by laying eggs.

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40. Write down any one role of community health clubs.

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**SECTION .B. (60 Marks)**

41. (a) Mention any two examples of internal parasites in cattle.

(i) \_\_\_\_\_

(ii) \_\_\_\_\_

(b) Suggest one way of controlling the above mentioned parasites.

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(c) State the use of drenching gun in the control of internal parasites in cattle.

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42. (a) Identify any one example of each of the following tuber crops;

(i) Stem tubers \_\_\_\_\_

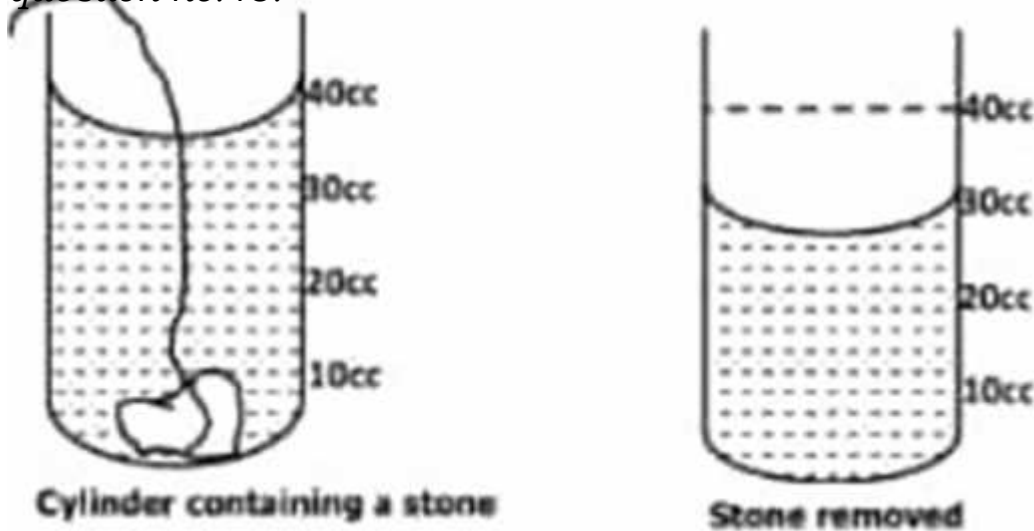
(ii) Root tubers \_\_\_\_\_

(b) Give any two ways farmers control pests in tuber crops.

(i) \_\_\_\_\_

(ii) \_\_\_\_\_

A P.5 class carried out the experiment below, Study and use it to answer question no.43.



43. (a) Name the method of finding volume used above.

(b) What the volume of the stone?

(c) Find the density of the stone if its mass is 30g.

(2 marks)

44. (a) Name any two food stuffs which provide carbohydrates in the human diet.

(i) \_\_\_\_\_

(ii) \_\_\_\_\_

(b) State the major function of carbohydrates in our bodies.

(c) Identify the deficiency disease which affects young children who lack enough carbohydrates in their diet.

45. (a) Define refraction of light.

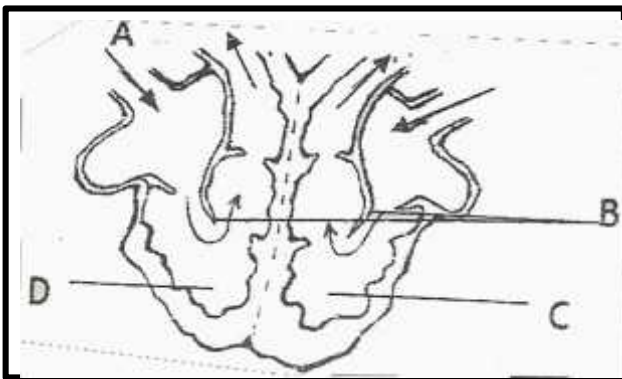
(b) What causes refraction of light?

(c) What effect does refraction have on each of the following as viewed from the top.

(i) Pencil placed in a glass full of water?

(ii) Coin placed at the bottom of a basin full of water?

The diagram below shows the structure of the human heart. Use it to answer question 46.



46. (a) Name the blood vessel marked A.

(b) State the function of structures marked B.

(c) State the reason why chamber C has thicker muscles than chamber D.

(d) What name is given to the muscles of the heart?

47. Identify the type of changes for each of the following;

(i) Ice changing to water.

(ii) Dead plants changing to humus.

(b) State any one other example of the type of changes you have identified in;

(i)

(ii)

48. (a) Identify the intestinal worms that enters the human body through;

(i) eating poorly cooked meat

(ii) bare feet \_\_\_\_\_

(b) Write two signs of worm infections in human beings.

(i) \_\_\_\_\_

(ii) \_\_\_\_\_

49. (a) State any one difference between bacterial and fungi.

(b) How is reproduction of yeast different from that of other fungi?

(c) Give any two importance of bacteria in the environment.

(i) \_\_\_\_\_

(ii) \_\_\_\_\_

50. (a) State one way in which trees help in cleaning air in the environment.

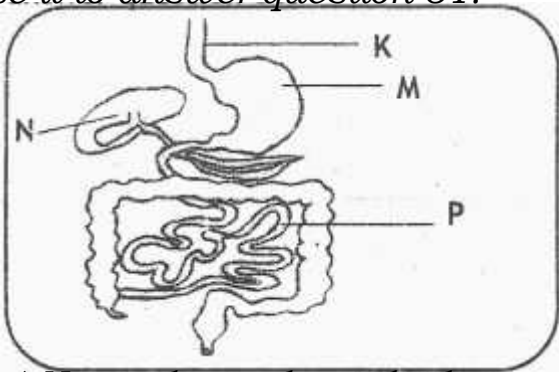
(b) Apart from cleaning air, give two other importance of trees in the environment.

(i) \_\_\_\_\_

(ii) \_\_\_\_\_

(c) What term is used to refer to growing of crops and trees together on the same piece of land?

The diagram below shows the human digestive system of human beings.  
Use it to answer question 51.



51. (a) Name the part marked;

(i) P \_\_\_\_\_

(ii) K \_\_\_\_\_

(b) Identify one enzyme secreted in part marked with letter M.

(c) State the role of organ marked N in digestion of food.



52. Match the parts of male reproductive system with their functions in the table below.

| <b>Part</b>     | <b>Function</b>            |
|-----------------|----------------------------|
| Testis          | Stores sperms              |
| Epididymis      | Passage of urine and semen |
| Urethra         | Produces semen             |
| Prostate glands | Produces sperms            |

- (i) Testis \_\_\_\_\_  
 (ii) Epididymis \_\_\_\_\_  
 (iii) Urethra \_\_\_\_\_  
 (iv) Prostate glands \_\_\_\_\_

53. (a) In which way are the following crops propagated;

- (i) Pineapples? \_\_\_\_\_  
 (ii) Onions? \_\_\_\_\_

(b) Apart from grafting, give two other examples of artificial vegetative propagation.

- (i) \_\_\_\_\_  
 (ii) \_\_\_\_\_

54. (a) What is a short circuit?

\_\_\_\_\_

(b) Write down any two causes of short circuits in a home.

- (i) \_\_\_\_\_  
 (ii) \_\_\_\_\_

(c) Suggest any one way of preventing short circuits in homes.

\_\_\_\_\_

55. (a) Which property of air is demonstrated when a balloon is inflated?

\_\_\_\_\_

(b) Give a reason why such a balloon will burst if left under sunshine for some time.

\_\_\_\_\_

(c) Identify the component of air which;

- (i) Supports burning \_\_\_\_\_  
 (ii) is necessary for photosynthesis \_\_\_\_\_