**TWAHIRAH ISLAMIC DAY & BOARDING PRIMARY SCHOOL**

**PRE-PLE SET 1 – 2024**

**INTEGRATED SCIENCE**

Time allowed: 2hrs 15 minutes

NAME: ……………………………………………………………………………………………….………………………

District name:……………………………………………………………………………………………………………

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INDEX NUMBER:

***SECTION A***

1. Which substance exists in all the three states of matter?

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2. Name the sensory organ that helps a person to detect changes in temperature.

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3. In which way does the cutting of trees (deforestation) cause soil erosion?

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4. Give one reason as to why pests and diseases are referred to as Blocks in food path.

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5. State any one way of proper disposal of rubbish in home.

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6. How is the propagation of sweet potatoes different from that of irish potatoes?

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7. How does the study of weather help a farmer?

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8. Apart from tasting, give any other role of the tongue during digestion.

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9. Which component of soil is used by plants to make their own food?

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 ***Use the diagram of a human tooth below and answer the questions that follow***.

10. How useful is the type of tooth above?

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11. Identify any one way in which trees are able to reduce air pollution in the environment.

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12. Why do most plants in desert areas have thorns?

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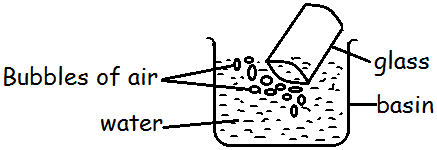
13. Name any one by product of respiration process.

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14. Which structures enable the trachea to remain open all the time?

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15. ***Study the diagram below and answer the questions that follow***.



What does the experiment above prove?

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16. Why is the re-cycling an important process in the conservation of resource? \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

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17. How is sun important in the process of rain cycle?

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18. State the compass direction in which a freely suspended magnet will rest.

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19. How does the human body cool itself in a hot day?

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20. What health danger comes as a result of someone not completing his medical dose? \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

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21. Name the type of mosquito that spread elephantiasis to humans.

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22. Why are ventilators put at a higher level above windows and doors in a house? \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

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23. State one reason why a crop farmer should include beans in his crop rotation? \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

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24. Give one major reason as to why one should wash his hands with soap after visiting a latrine. \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

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25. What do arachnids use for breathing?

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26. How does leaching reduce soil fertility?

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27. Name the type of blood cell which is affected by malaria parasites in the body.

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28. Give one use of water absorbed by seeds during germination.

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29. Why is it important for married couple to be treated together if they have got syphilis? \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

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30. How useful is frictional force to a P.7 candidate during his examinations?

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31. Name any one type of cattle kept by farmers in Uganda.

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32. Which disease is characterized by a sunken soft spot on a baby’s head (fontanelle)?

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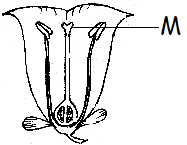
33. Name the final digested food products from eating proteins to the body.

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34. Give one reason as to why water is not advisable to put out petrol fire.

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***Study the diagram of a flower and use it to answer the question about it***.



35. What is the use of the part marked “M” to a flower?

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36. Give one reason as to why filtrated water is not necessarily safe for drinking? \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

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37. How useful is a stretcher when giving first aid?

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38. State any one characteristic of fruits and seeds dispersed by animals.

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39. Give any one reason as to why sugarcane is not considered as a stem tuber yet is stores food in its stem.

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40. Name any one diarrheal disease.

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***SECTION B***

41. (a) Give any one way in which Primary Health Care (PHC) is important to the community.

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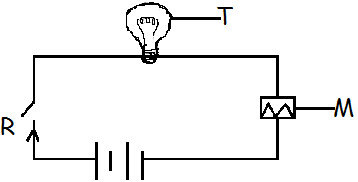
(b) State the element of PHC which is promoted by each of the following activities.

(i) Cleaning water sources:

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(ii) Eating a balanced diet meal:

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42. ***Use the diagram below of a simple circuit to answer questions that follow***.

(a) How is the function of the part marked M similar to that of R?

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(b) Name the form of energy produced at part marked T when the circuit is completed.

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(c) Calculate the voltage used in the circuit above. (2mks)

43. (a) Give the difference between reflection and refraction.

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(b) Identify any two characteristics of image formed by plane mirrors.

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

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

(c) How is reflection of light useful in our daily life?

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44. (a) What is respiration?

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(b) How are air sacs (Alveoli) adapted for gaseous exchange?

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(c) Give any one respiration disease caused by bacteria.

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(d) State any one way how one can maintain his respiratory system in good working condition. \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

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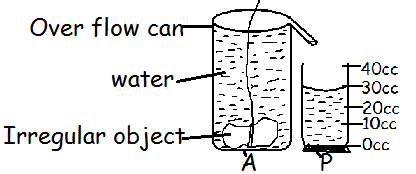
45. (a) What is immunity?

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(b) Study and complete the immunization table below.

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| --- | --- | --- |
| **Disease** | **Vaccine** | **Immunization site** |
| Polio | Polio vaccine | i) |
| Tuberculosis | BCG | ii) |
| Diphtheria | iii) | Left upper thigh |

46. **An irregular object was lowered into an overflow can A containing water. The water it displaced was collected in container B as shown**.



(a) What is the volume of the irregular object above?

(b) Calculate the density of the irregular object if its mass is 90g. (2mks)

(c) Name container marked P.

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47. (a) Which type of change takes place when an iron rusts?

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(b) Give two conditions necessary for rusting to take place on an iron tool.

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

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

(c) State any one effect of rusting on iron tools.

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48. (a) What is environmental degradation?

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(b) Identify any two natural causes of environmental degradation.

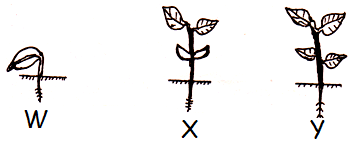
i) \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

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

(c) Give any one human activity that cause environmental degradation.

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49. ***In the diagram below W,X and Y show the stages of germination of a seed. Study and use it to answer the questions that follow***.



(a) Name the part marked Q.

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(b) How is part marked Q useful to the seedling at the stage marked X?

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(c) Why is the part marked Q useless at stage Y?

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(d) Which type of germination is shown by the above seeds?

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50. (a) Differentiate between poultry and poultry keeping.

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(b) Name any two vices in poultry which can be controlled by debeaking.

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

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

(c) Give any one disease that attacks poultry.

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51. (a) What is the standard unit for measuring force?

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(b) A man weighs 60kg. He sits 1.5metres from the fulcrum (pivot) of a see-saw. How far from the fulcrum will a boy whose weight is 30kg, sit in order to balance up with the man in the see-saw. (3mks)

52. (a) What is the importance of a school garden to school children?

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(b) Identify two factors to consider when choosing an area for a school garden.

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

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

(c) Name any one framing practice that can be done in a school garden.

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53. (a) What is swarming? \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

(b) Give two reasons as to why people keep bees.

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

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

(c) State any one way how bees can be dangerous to human beings.

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54. (a) What is the difference between transparent and translucent objects?

\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

(b) Give any one example of opaque object.

\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

(c) Name the type of lens used to correct long sightedness.

\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

(d) Which part of the eye has the same function as film in the lens camera?

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55. (a) Give the difference between a predator and a scavenger.

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(b) In which way are scavengers useful in the environment?

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(c) Name any two examples of scavenger birds.

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

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