**PRE PLE -2020**

**P.7 INTEGRATED SCIENCE SET I**

*Time allowed: 2 Hours 15 minutes*

Candidates’ Names: ...................................................................................

Index No.

School: ...................................................................................................................

***SECTION A***

1. What happens to vapour when condensed?

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2. Give any one importance of living organism as a component of soil.

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3. Why is a spider regarded as an arachnid?

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4. How do premolars help in the digestion of food?

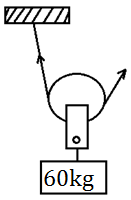
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5. What type of change does a snake undergo when it sheds off the old skin and develops a new one?

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6. What does the term skeleton mean?

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 ***The diagram below is of a pulley. Study it and answer the questions 7 and 8***.

7. What type of pulley is shown in the diagram above?

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8. Calculate the effort needed to raise to the load shown in the diagram above.

9. Why should children be given food rich in proteins?

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10. How is the fertilization of eggs of an amphibian different from those of reptiles?

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11. Name the method that is used to find the volume of an Irish potato.

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12. Magnets can’t separate nails from iron fillings. Why is it easy to separate sugar from iron fillings?

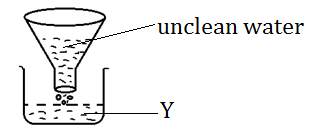
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13. State any one physical characteristic that occurs in only female adolescents.

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14. Give one reason why people should test their blood for HIV and AIDS?

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***The diagram below is of a method of making water clean. Use it to answer questions***.

15. Why is the filtrate marked Y not advisable for drinking?

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16. Convert 680F to Celsius scale.

17. How are testes and anthers similar in their function?

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18. Which part of the human eye can be compared to the film of a camera?

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19. Identify any one example of land pollutant.

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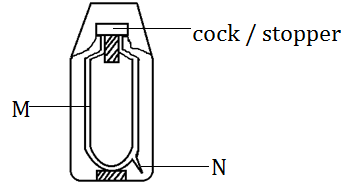
20. Why are worker bees referred to as sterile bees in a bee hive?

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21. Which type of digestion takes place in the stomach?

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***The diagram below is of a thermos flask***.



22. State the function of the part marked N.

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23. Give any one example of fossil fuel.

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24. Write down one principle of reflection of light.

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25. Identify the main function of fungi in a food chain.

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26. Give any one way rusting affects metals.

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27. Kapere walks bare footed from his home to school. Identify any one problem Kapare is most likely to face after sometime.

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28. In the space below, draw a stamen and show the filament

29. Give any one reason why friction is a useless force in nature.

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30. Identify any one way why sweating is important to a human body.

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31. Electricity is a poor master but a good servant to the environment. Using the statement, state one reason for its being a good servant to the environment.

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32. Identify one way of controlling diseases among school going children without using drugs.

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33. Write down any one way a farmer can improve on his local breed of pigs on his piggery. \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

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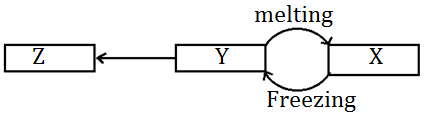
34. Apart from carbondioxide, state any one other material plants use for photosynthesis in the environment.

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35. How is black jack adopted to its mode of dispersal?

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36. Name the state of matter marked X below.



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37. How is the propagation of cassava different from that of carrots?

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38. Name any one immunisable air borne disease that affects the lungs.

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39. Which instrument measures the speed of wind?

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40. Suggest any one way of conserving soil as a resource.

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***SECTION B: 15 Questions (60 Marks)***

41. (a) Give the difference between drowning and near drowning.

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(b) State any two causes of near drowning in a home.

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

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

(c) What first Aid will a Seven year old boy give to friend who has near drowned?

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42. (a) Burning is considered to be a chemical change. Give any other two examples of chemical changes.

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

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

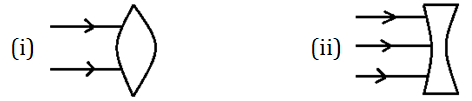
(b) Write down any one reason why burning is considered to be a chemical change. \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

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(c) Name any one natural change that degrades the environment.

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43. ***The diagram below shows types of lenses***.



(a) Complete the diagrams above to show the light rays after passing through the lenses.

(b) Identify the eye defects corrected by lenses marked.

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

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

44. (a) How is photosynthesis different from transpiration?

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(b) Identify any one by-product of photosynthesis.

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(c) Which component of air is decreased in the atmosphere during the process of photosynthesis?

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(d) Write down any one factor that affects the rate of transpiration.

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45. (a) Walukagga is a musician, how is he able to produce sound?

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(b) Identify any two devices Walukagga use to store sound.

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

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

(c) Give any one factor that determines the pitch of sound.

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46. ***The diagram below shows a fish. Use it to answer questions that follow***.



(a) Name the part marked N.

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(b) State the function of part M on the fish.

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(c) Give one way in which a fish is adopted to live in water.

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(d) Why are people advised to feed their children suffering from Kwashiorkor on fish? \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

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47. Mutyaba weighs 80kg sitting 3m away from the pivot and Bwanika who weighs 40kgs sits on the opposite side of the see saw in order to balance with Mutyaba.

(a) How far is Bwanika from Mutyaba?

(b) State the principle of moments.

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48. (a) How does food move through the alimentary canal of humans?

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(b) Name the condition in which enzymes like salivary amylase work best.

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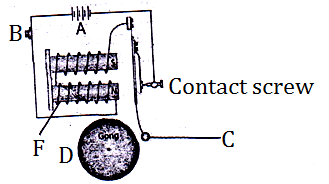
(c) Identify any one disease that affects the digestive system.

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(d) Suggest any one health habit that maintains the proper functioning of the digestive system.

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49. ***The diagram below is of an electric bell. Use it to answer questions that follow***.



(a) Name the parts marked.

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

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

(b) In which way is C useful on an electric bell?

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(c) Apart from an electric bell, write down any one other device which uses Magnetism and electricity to operate.

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50. Match the organism in A to the diseases they cause in B.

List A List B

Chlamydia Typhoid

Plasmodia River blindness

Salmonella typhi Malaria

Onchocerca Vulvulus Trachoma

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

(ii) Salmonella typhi \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

(iii) Onchocerca Vulvulus \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

(iv) Plasmodia \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

51. (a) What is incubation as used in poultry?

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(b) Give any one disadvantage of using natural incubation.

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

(c) Mention any two factors that may make an egg fail to hatch.

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

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

52. (a) Explain the following terms:

(i) Energy resources

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(ii) A resource

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

(b) Apart from hydro electricity, write down any one other energy resource obtained from water.

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(c) In which way are animals used as an energy resource?

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53. (a) What are health parades?

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(b) Give any one reason why health parades are conducted in your school.

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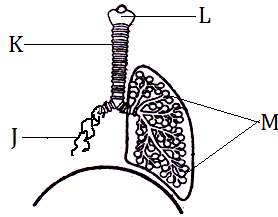
(c) Apart from teachers on duty, write down one group of people who conduct health parades in your school.

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(d) Suggest any one way of maintaining the compound of your school clean.

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54. ***The diagram below shows the human respiratory system. Use it to answer questions that follow***.



(a) Name the parts labeled.

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

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

(b) How is part marked K adapted to its function?

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(c) Identify any one non infectious disease that attacks the above system.

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55. (a) Differentiate between root tubers and stem tubers.

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(b) How are the following crops harvested?

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

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

(c) Identify any one pest that attacks root tubers in the garden.

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