



# AITEL EXAMINATION

SET 1 2023

## INTERGRATED SCIENCE FOR P.6

*Time allowed: 2hours 15 minutes*

Name: .....

Stream : .....

### Read the following instructions carefully:

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

FOR EXAMINERS' USE ONLY		
Qn No.	MARKS	SIGN.
1 – 10		
11-20		
21-30		
31- 40		
41 - 43		
44 - 46		
47 - 49		
50 - 52		
53 – 55		
<b>TOTAL</b>		

## **SECTION A (40 MARKS)**

1. Name any one component of a clean home.  
\_\_\_\_\_
2. Which part of a plant helps in photosynthesis?  
\_\_\_\_\_
3. Why is it a good practice for parents to take their children for immunisation?  
\_\_\_\_\_
4. Apart from carbohydrates, name any other class of food that gives the body energy.  
\_\_\_\_\_
5. Name the component of blood affected by the sickle cell disease.  
\_\_\_\_\_
6. Why do farmer carryout de-beaking in a poultry farmer?  
\_\_\_\_\_
7. Name the group of birds to which a crested crane belongs?  
\_\_\_\_\_
8. Mention any one way of controlling accidents at home.  
\_\_\_\_\_
9. Which element of PHC helps to prevent bad smell on ones body?  
\_\_\_\_\_
10. How can a farmer prevent rusting of his garden tools?  
\_\_\_\_\_
11. How is sheep rearing useful to textile industry?  
\_\_\_\_\_

***The diagram below shows a mode of reproduction of a certain organism. Use it to answer question 12.***



12. Identify the fungus that reproduces as shown above.

- 
13. Mention one way of preventing diseases without using medicine/drugs.
- 
14. What is the function of the endosperm of a maize grain?
- 
15. State the recommended age for weaning babies by mothers.
- 
16. Mention any one example of an invertebrate.
- 
17. How does sun-drying help in preserving food stuffs?
- 
18. Name one root tuber crop propagated by using seeds apart from carrots.
- 
19. How do people kill germs in water before drinking it?
- 
20. Apart from the egg stage, at what other stage of development is a housefly not active?
- 
21. How do people protect themselves from rainy weather?
- 
22. State one way through which a child gets natural immunity.
- 
23. Name the process by which a liquid turns into ice.
- 
24. Name one way of controlling soil erosion in a school garden.
- 

***Below is a musical instrument. Study it and answer questions about it correctly.***



25. To which group of instruments does the above belong?

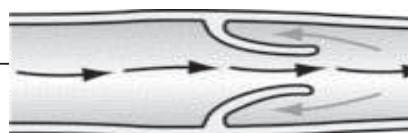
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26. Identify any one condition that favours the multiplication of bacteria.
- 
27. What determines the sinking or floating of an object?
- 
28. What is the function of the heart in the body?
- 
29. Give any one way of preventing worm infestation in our body.
- 
30. Mention any one vulnerable group of people in your community.
- 
31. State any one characteristic of a worker bee.
- 
32. How can a farmer solve the problem of poor disposal of faeces?
- 
33. What is the function of red blood cells in the body?
- 
34. Why is burning regarded as a chemical change?
- 
35. How is the pinna useful to a person during the process of hearing?
- 
36. Give one way of maintaining a proper functioning of our digestive system.
- 
37. State the method used to find the volume of an irregular object.
- 

***The diagram below is of a common animal. Use it to answer questions 38 and 39.***



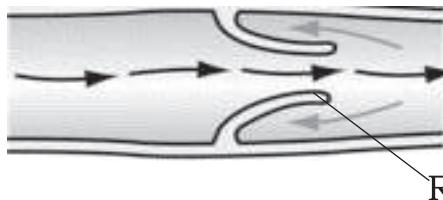
38. Name the class of invertebrates to which the above animal belongs.
- 
39. Which disease does the above animal spread to humans?

40. Give one disease that can be controlled by proper disposal of human wastes at school.



**MARKS)**

41. **The diagram below shows a blood vessel. Use it to answer the questions that follow.**



R

- a) Name the type of blood vessel shown above.
- b) Name the structure marked R in the blood vessel.
- c) How are structure R useful in the blood vessel?
- d) Give one example of the above type of blood vessel in the human body.

42. a) Give two reasons for keeping poultry at home.

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

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

- b) Write any two systems of keeping poultry.

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

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

43. a) State ant two effects of heat on matter.

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

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

- b) Name two state of matter that transfer heat by convection.

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

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

44. a) What is the main function of leaves to a plant?

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b) What role is played by chlorophyll during photosynthesis?

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c) Give two ways plants with weak stems climb other.

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

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

45. a) Besides decomposition, name the process of soil formation.

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b) Which component of soil is formed by decomposition?

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c) Name any one organism that helps in the decomposition process.

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d) Give one practice that make soil lose its fertility.

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46. ***The diagram below is of a mosquito larva. Use it to answer questions that follow.***



a) Name the mosquito that develops form such a larva.

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b) Which disease does the mosquito you have name spread to humans?

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c) Suggest two ways of controlling the stage of the mosquito shown above.

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

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

47. a) Name any two childhood immunisable diseases controlled by DPT vaccines.

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

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

b) How is DPT administered to children?

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c) Besides DPT, mention any other vaccine administered to infants.

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48. a) Give one bird under each of the following groups of birds.

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

ii) preying bird\_\_\_\_\_

b) In which way are scavenger birds useful in the environment?

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c) Give the difference between a predator and a scavenger.

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49. a) Name any two products from sheep.

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

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

b) What does shearing refers to in sheep rearing?

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c) How can a farmer control diseases in sheep?

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50. ***In an equipment, salt is mixed with water and stirred until it dissolved to form a solution.***

a) What do the following act as in the experiment?

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

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

b) Why did the salt dissolve in water?

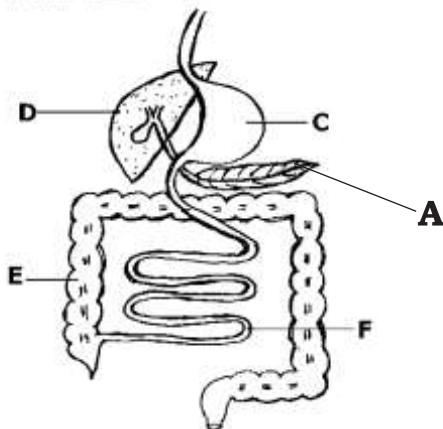
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c) Name any one substance that could be used instead of sugar.

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51. a) Which class of food prevents Kwashiorkor among children?

- b) State the element of PHC that prevent deficiency diseases.
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- c) Give any two vitamin deficiency diseases.
- i) \_\_\_\_\_
- ii) \_\_\_\_\_
52. ***The diagram below shows part of the alimentary canal of man. Use it to answer questions that follow.***



- a) Name part marked C.
- 
- b) In which part of the alimentary canal does absorption of food take place?
- 
- c) Identify the digestive juice produced by part D.
- 
- d) Give one disorder of the above system.
- 

53. a) What is germination?
- 
- 

- b) Mention any two condition seeds need to germinate.
- i) \_\_\_\_\_
- ii) \_\_\_\_\_
- c) Why do seeds fail to germinate when they are put in very dry soil?
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54. In the table below, part A shows term used to describe sound and part B has the meaning of the terms. Use the meaning in part B to match the terms in A.

Part A	Part B
Pitch	Reflected sound
Echo	Number of vibration per second
Frequency	Loudness or softness of sound
Volume	Highness or lowness of wind

- a) Pitch \_\_\_\_\_
- b) Echo \_\_\_\_\_
- c) Frequency \_\_\_\_\_
- d) Volume \_\_\_\_\_

55. a) What is first aid?

- \_\_\_\_\_
- \_\_\_\_\_
- b) Identify the first aid item used to;
- i) clean wounds \_\_\_\_\_
- ii) managing fractures \_\_\_\_\_
- c) State one reason for giving first aid to casualties.
- \_\_\_\_\_