

AITEL JOINT MOCK EXAMINATIONS

MOCK 2023

P.7 INTEGRATED SCIENCE

Index Number

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Time allowed: 2 hours 15 minutes

Pupil's Name: _____

Stream: _____

Read the following instructions carefully:

1. The paper is made up of 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 space provided.
5. All answers must be written using 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 illegible handwriting may lead to loss of marks.
8. **Do not** fill any thing in the boxes indicated for

Examiner's use only

FOR EXAMINER'S USE ONLY		
QN No.	MARK	SIGN
1-10		
11-20		
21-30		
31-40		
41-43		
44-46		
47-49		
50-52		
53-55		
TOTAL		

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Section A

1. Name any one local material used to keep our body clean

2. Name the domestic bird that takes 21 days to incubate.

3. Give any one natural cause of soil erosion.

4. Why is it not advisable to use fresh grass for mulching?

5. Draw a simple serrated leaf in the space provided below.

6. Which characteristic of living things enable them to increase in number.

7. How does a whistle produce sound?

8. Give any one effect of fermentation as a chemical change.

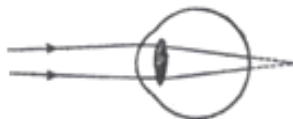
9. Which force increases the speed of water flowing down hill?

10. In which way can skin disease be controlled among school children?

11. How is reproduction of bacteria different from that of yeast?

12. Name the type of family in which parents can easily check and control discipline among children.

The diagram below shows an eye defect. Use it to answer questions 13 and 14.



13. Identify the eye defect shown above.

14. Draw a lens that can be used to correct the above eye defect.

15. Which type of bees develops from unfertilized eggs?

16. Apart from giving food taste, give any one other use of salt at home.

17. Which type of blood vessels handles both oxygenated and deoxygenated blood?

The diagram below is a symbol used on many farm chemical. Use it to answer questions 18 and 19.



18. Why is the symbol below put on farm chemicals?

19. State one safe way of storing farm chemical with such a symbol at home.

20. How does the use of ball bearing reduce friction on moving parts of a bicycle?

21. Give any one structure at school that can be used to promote proper sanitation.

22. Why does a stone weigh less in water than in air?

23. How else can rusting be prevented besides painting and oiling?

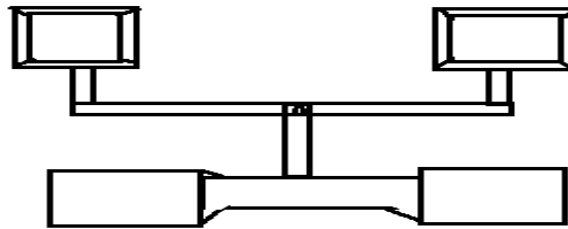
24. Name any one part of a human body where white blood cells are manufactured.

25. In which way does smoking affect the circulatory system?

26. How can a farmer prevent his rabbits from burrowing the ground of the hutch?

27. Give any one way of spending resources wisely.

The diagram below shows an item used in shops. Use it to answer questions 28 and 29.



28. State the groups of simple machines to which the above diagram belong.

29. Using letter N show the position of the turning point.

30. Name the digestive disorder caused due to improper chewing of food.

31. Give a reason why farmers stake their tomato plants.

32. Why is the base of a flat iron made of metal?

33. Which characteristic of clay soil makes it water logged?

34. Give any one way an adolescent can overcome the problem of bad smell on his body.

35. How useful are plants in a food chain?

36. Why does a butterfly eat so much at its larval stage?

37. Why does a smaller object produce a higher pitch of sound than a bigger object?

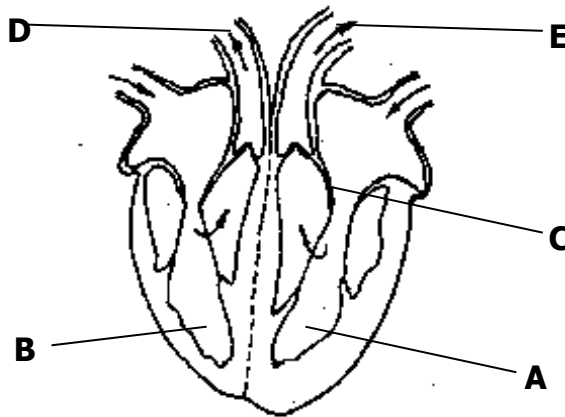
38. Write any one material bee us to manufacture honey.

39. How can mother prevent their children from suffering from kwashiorkor?

40. Which sense organ enables u to feel pain on your body?

SECTION B (60 marks)

41. The diagram below shows a human heart. Use it to answer questions that follow



(a) What type of blood travels through blood vessels **D**?

(b) State the function of structure labeled **C**.

(c) To which body system does the organ belong?

(d) Name the part marked **B** above.

42. Mention any one example of sexual deviation in the community.

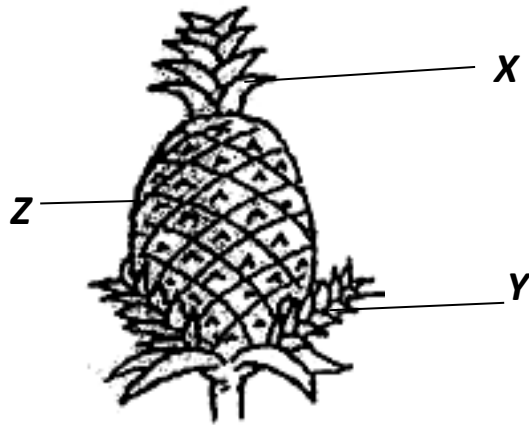
b) Give any two causes of sexual deviation

i) _____

ii) _____

c) How can one avoid sexual deviational practices.

43. The diagram below shows a pineapple plant. Study it and use it to answer questions below.



(a) Identify the parts labeled x and y.

(i) X _____

(ii) Y _____

(b) Which of the above parts is commonly used for propagation?

(c) What food value do we get from eating the above fruit?

44. a. Name the commonest system of rearing poultry used in rural areas.

b) Give any two advantages of the system you have named in (a) above.

i) _____

ii) _____

c) Apart from the system named in (a) above, state any one other system of rearing poultry in Uganda.

45. a.) Why are mushrooms not grouped under plants?

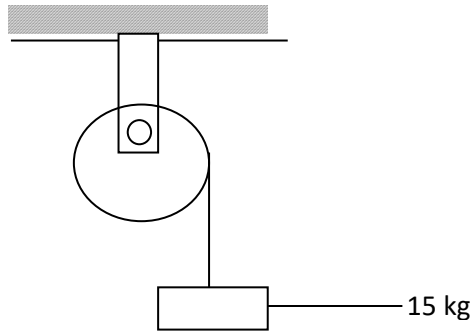
b) Apart from a mushroom, name any other two examples of fungi.

i) _____

ii) _____

c) Give any one effect of mushroom to people?

46. The diagram below shows a simple machine. Use it to answer the questions that follow



(a) Identify the pulley system above.

b) What distance will the effort move if the load moves 3m?

State **two** uses when the above machine can be used.

(i) _____

(ii) _____

46. a) Name the class of food digested in the stomach.

b) How important is hydro chloric acid produced by the walls of the stomach?

c) Name any two food substances absorbed into the blood stream from the stomach.

i) _____

ii) _____

47. a) Name the part of the respiratory system where exchange of gases takes place.

i) _____

ii) _____

b) State any two immunisable diseases that affect the respiratory system.

i) _____

ii) _____

b) Give any one way of maintaining the proper functioning of the respiratory system.

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48. a) What are energy resources?

b) Give any two examples of energy resources got from fossil fuel.

i) _____

ii) _____

c) Name the main source of energy resource in the environment.

49. Match the agent of seed dispersal below to the seed they disperse.

Agent

Seed

Animals

soya beans

Wind

mangrove

Water

Jacaranda

Explosion

Guava

a) Animals _____

b) Wind _____

c) Water _____

d) Explosion _____

50a) The diagram below is of a fruit. Use it to answer the questions that follow



a) Name the class of food obtained from the above fruits.

b) Apart from being used as food, give any one other way the above fruit is useful to people.

c) How do farm animals benefit from the above fruits?

d) How is the plant from which the above fruit is obtained propagated?

51. a) Name the respiratory organ responsible for;

i) trapping floating germs and dirt

ii) Preventing entry of foreign body to the trachea.

b) Apart from lung cancer, name one other non-communicable diseases of respiratory system.

c) What causes the disease named in 51(b) above?

52a) Apart from being free from pests and diseases, give any two other qualities of a good planting materials.

i) _____

ii) _____

b) Why is it important for a farmer to select planting materials?

c) Why do farmers plant their crops in wet season?

53.a) Why is it not advisable for people to defecate in a bush around?

b) State any two diseases which can be easily spread through the above system in

i) _____

ii) _____

c) How can such diseases mentioned in (b) above be controlled in the community.

54.a) Name two types of exotic breed of cattle.

i) _____

ii) _____

b) State one advantage of keeping exotic breed of cattle.

c) Why should Livestock farmers dip their cattle?

55. a) How do the following animals protect themselves against enemies?

i) Caterpillar _____

ii) Centipede _____

b) Give any two animals at home which provide security.

i) _____

ii) _____