

# MITYANA MUNICIPAL ACADEMIC COMMITTEE



## PLE - MOCK EXAMINATION 2023

### INTEGRATED SCIENCE

Time Allowed 2 Hours 15 Min.

EMIS No. \_\_\_\_\_

Personal No. \_\_\_\_\_

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Candidate's Name: \_\_\_\_\_

Signature: \_\_\_\_\_

#### READ THE FOLLOWING INSTRUCTIONS CAREFULLY.

1. Do not open this booklet until you are told to do so.

2. This paper comprises two sections A and B.

3. Section A has 40 short answer questions (40 marks)

4. Section B has 15 questions (60 marks)

5. All answers must be written in blue or black ball point pen or ink.

6. All answers to both sections A and B MUST be written in the spaces provided

7. Diagrams must be done in pencil strictly.

8. Any handwriting that cannot be easily read will lead to loss of marks.

9. Unnecessary alteration of work will lead to loss of marks.

10. Do not fill anything in the boxes reserved for examiners' use.

FOR EXAMINER'S USE ONLY		
QN. No.	MARKS	INITIAL
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)

**Questions 1 to 40 carry one mark each**

1. Name any **one** part of a flowering plant found on the shoot system.

.....

2. Give the similarity between the lateral line of a fish and the skin of man.

.....

3. Mention any **one** mineral salt lost during dehydration.

.....

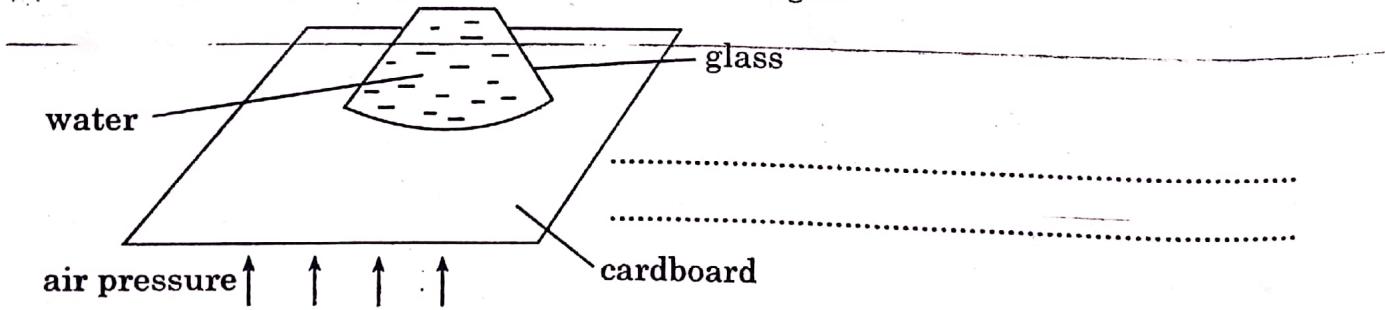
4. State any **one** reason for swarming in bees.

.....

5. Why is a mushroom not regarded as a plant?

.....

6. Identify the property of air shown in the diagram.



7. How is a microscope useful to a doctor?

.....

8. Why does blood flow to lungs before it is pumped to all body parts?

.....

9. Mention **one** way the skin reduces heat from the body.

.....  
.....

10. Name the joint found in the neck.

.....  
.....

11. Why does a vehicle move slowly uphill?

.....  
.....

12. Which component of blood transports carbondioxide in the body?

.....  
.....

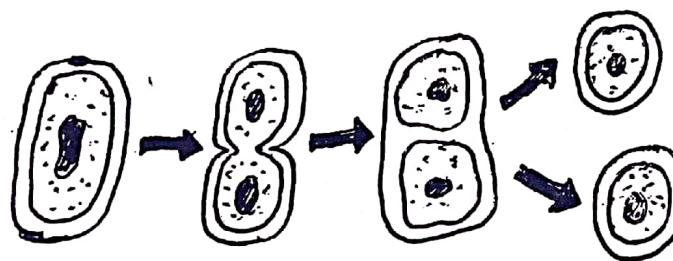
13. How would you separate a mixture of water and salt?

.....  
.....

14. Which type of change takes place when a heap of plant materials decay?

.....  
.....

***The diagram below shows a method of reproduction in some animals. Use it to answer question 15 and 16.***



15. Name the method of reproduction shown above.

.....  
.....

16. Give any **one** condition that can favour the animal with the above method of reproduction to multiply.

.....  
.....

17. In which way is a magnet important to sailors?

.....  
.....  
.....

18. What health problem can one face through eating food with unwashed hands?

.....  
.....  
.....

19. Name the enzyme in yeast which speeds up fermentation process.

.....  
.....  
.....

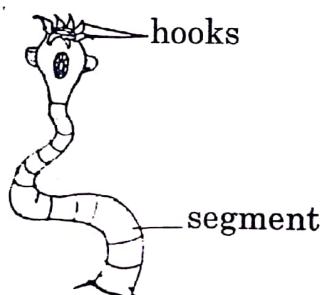
20. How does a snail protect itself from enemies?

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.....  
.....

21. Give the standard units for measuring weight.

.....  
.....

*The diagram below is of a common intestinal worm. Use it to answer questions 22 and 23.*



22. Name the intestinal worm shown above.

.....  
.....  
.....

23. Give **one** way of avoiding the effect of the above worm.

.....  
.....  
.....

24. How are echoes useful to bats?

.....  
.....  
.....

25. State the importance of bacteria found in root nodules of leguminous plants.

.....  
.....

26. Give **one** secondary sex characteristic common to both boys and girls.

.....  
.....

27. How can a child acquire immunity from the mother besides breast feeding?

.....  
.....

28. State any **one** factor that leads to alcoholism.

.....  
.....

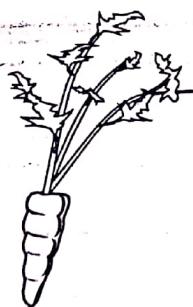
29. Give **one** reason why animals make sound.

.....  
.....

30. What is electricity?



*The diagram below is of a carrot. Use it to answer question 31 and 32.*



31. To which group of tuber crop does the above plant belong?

.....  
.....

32. How is the above tuber crop propagated?

.....  
.....

33. - Give any one way of conserving plants as a resource.

.....

34. Why is water obtained using settling method not good for drinking?

.....

35. Besides a hoe, name any one other garden tool used for digging.

.....

36. Which sensory organ is used by animals to see?

.....

37. Why does a female anopheles mosquito feed on blood?

.....

38. How is a dustbin important in a class room at school?

.....

39. Name the domestic animal whose gestation period is four weeks.

.....

40. To which class of levers does a human foot belong?

.....

### SECTION B: 60 MARKS

41(a) What type of germination does a bean seed undergo?

.....

.....

(b) Apart from a bean seed, give two other examples of seeds that undergo the same type of germination mentioned in (a) above.

i) .....

ii) .....

(c) State the function of the cotyledon during germination.

.....

42(a) Which type of chicken is kept for the following purposes,

i) Egg production .....

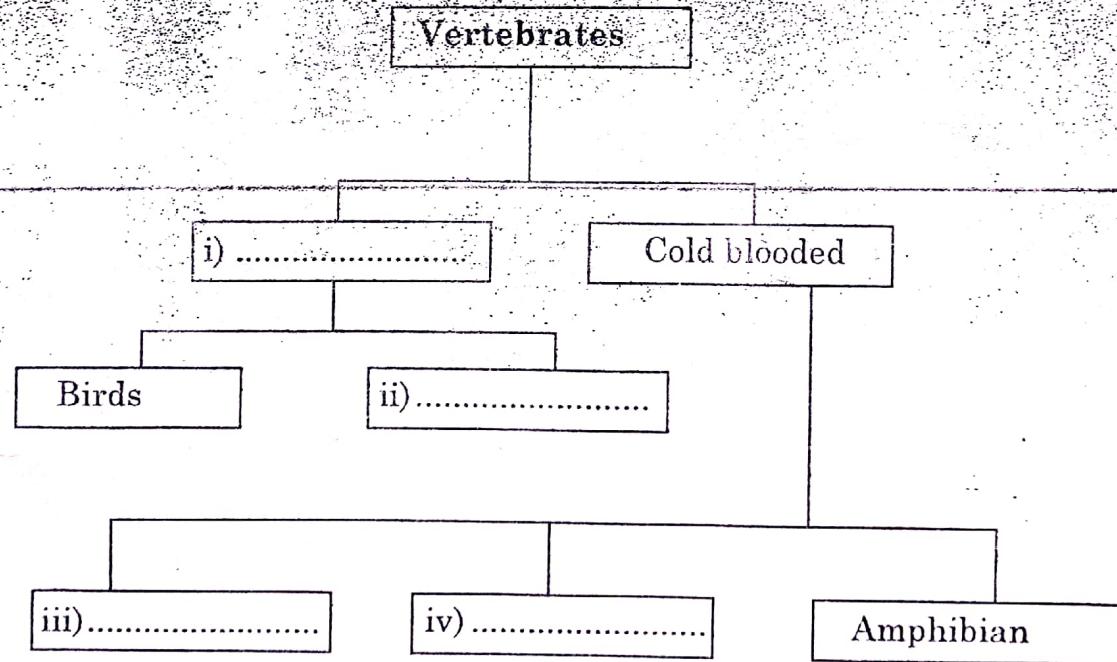
ii) Meat production .....

(b) Give two ways of improving the quality of local breeds of birds.

i) .....

ii) .....

43. The flow chart below shows classification of vertebrates.  
Complete it correctly.



44a) Name any two examples of long bones in the upper limbs.

i) .....

ii) .....

(b) State any **two** functions of the muscular skeletal system.

- i) .....
- ii) .....

45. What are communicable diseases?

.....  
.....

b) Name any **two** examples of communicable diseases in the community.

- i) .....
- ii) .....

c) Mention any **one** example of non-communicable disease in the environment.

.....  
.....

46. Which element of Primary Health Care controls over population.

.....  
.....

b) State the role played by the following groups in promotion of primary Health Care. (PHC)

- i) Individual .....
- ii) Families .....

c) Write down any **one** principle of Primary Health Care (PHC)

.....  
.....



47(a) Which breed of cattle is more resistant to pests and diseases.

.....  
.....

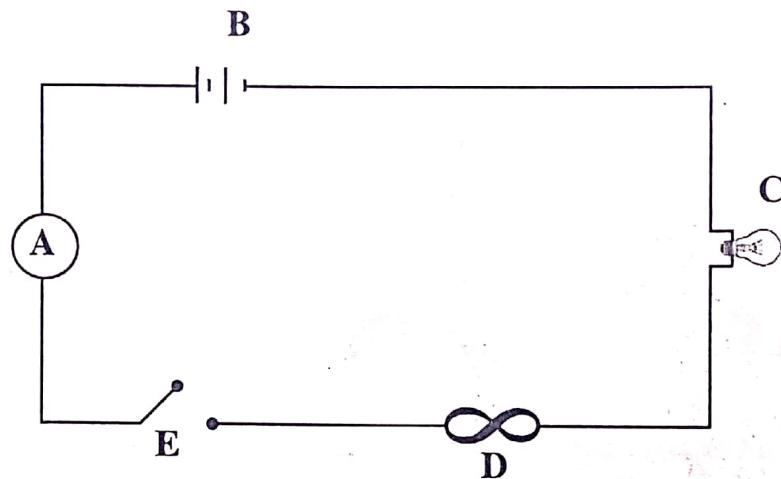
(b) Give any **one** example of the breed of cattle mentioned in (a) above.

.....  
.....

(c) Mention **two** characteristics of dairy cattle.

- i) .....
- ii) .....

48. The diagram below shows an electric circuit. Use it to answer questions that follow.



- a) Name the parts marked B and D

B .....

D .....

- b) Give the function of part marked C in the circuit.

.....

.....

- c) What energy change takes place in part B when part E is closed?

.....

.....

- 49(a) Name any two types of soil.

i) .....

ii) .....

- (b) Which component of soil is formed by decomposition?

.....

.....

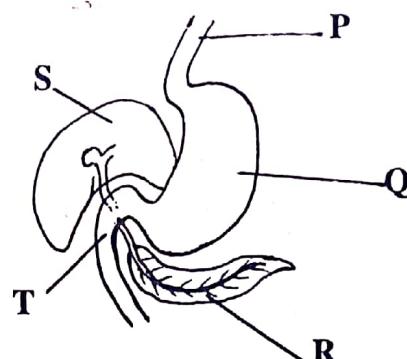
- (c) Give any one cause of soil erosion.

.....

.....



50. The diagram below shows the part of digestive system. Use it to answer question that follow.



- (a) Name the parts marked P and R.

i) P .....

ii) R .....

- (b) Identify the part on the diagram where digestion of fats start.

.....  
.....

- (c) State the function of part marked S

.....  
.....

- 51(a) Name any two examples of essential drugs

i) .....

ii) .....

- (b) Why should drugs be kept;

i) In a cool dry place

.....  
.....

ii) Away from children's reach?

.....  
.....

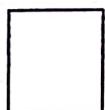
52. What is reflection of light?

.....  
.....

(b) Which type of reflection throws back the rays in all directions.

.....  
.....

(c) An incident ray makes an angle of  $60^{\circ}$  to the mirror. What is the angle of reflection? (2 marks)



53. Where in the body does gaseous exchange take place?

.....  
.....

(b) Why is the trachea made up of rings of cartilage?

.....  
.....

(b) What happens to the following parts during breathing in (inspiration)

i) Diaphragm

.....  
.....

ii) Rib cage

.....  
.....

54(a) What is teenage pregnancy?

.....  
.....

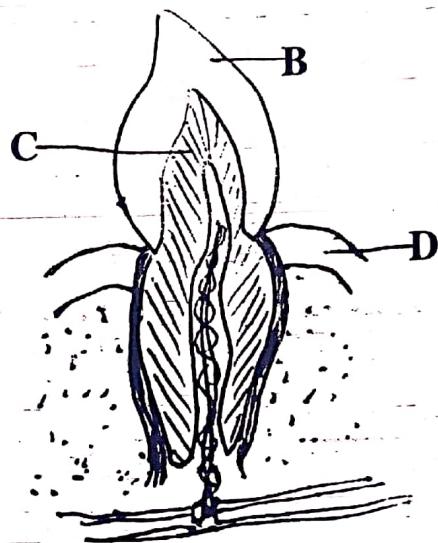
(b) Give any two causes of teenage pregnancy.

i) .....

ii) .....

(c) State any **one** way of preventing teenage pregnancy.

55. The diagram below shows parts of a tooth.  
Use it to answer question that follow.



a) Name the parts marked B and C.

B .....  
.....

C .....  
.....

b) Identify the type of tooth drawn in the diagram above.

.....

c) State any **one** way of keeping the teeth clean