

ST. MARCELINO ACADEMY

PRE - PRIMARY LEAVING EXAMINATION 2023

INTEGRATED SCIENCE

Time allowed: 2 hours 15 minutes

Random No.						Personal No.		

Candidates Name: _____

Candidates Signature: _____

District: _____

DO NOT OPEN THIS BOOKLET UNTIL YOU ARE TOLD TO DO SO

Read the following instructions carefully.

1. This paper is made up of two Sections:
A and B.
2. Answers to both sections must be written in the spaces provided in full sentences.
3. Section A has 40 questions (40 marks)
4. Section B has 15 questions (60 marks)
5. Attempt all questions. All answers to both sections A and B must be written in the spaces provided.
6. All answers must be written in blue or black ballpoint pen or ink but not in pencil. All work done in pencil, except diagrams, will **NOT** be marked.
7. Crossing out of answers will lead to loss of marks.
8. Any handwriting that cannot be easily read may lead to loss of marks.

FOR EXAMINERS 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		

SECTION A.

1. Name one source of food in the community.

2. Which instrument is used to separate liquid substances with different densities?

3. State what can be done to protect garden tools against rusting.

4. Mention any one kind of valves found in the human heart.

5. How is water important for plant growth?

6. Give a reason why a Stevenson screen is painted white.

7. How can food contamination be prevented in a home?

8. Name the group of crops which grow, mature in more than a year and are harvested year after year.

9. State the difference in the rate of heat transfer between the solid state and the gaseous state.

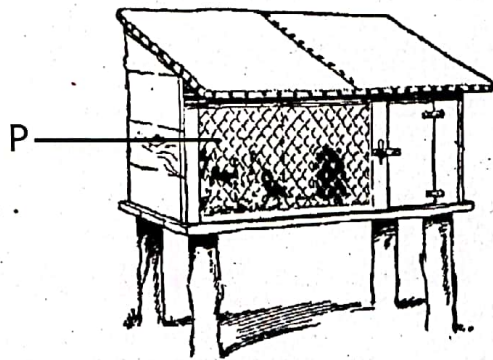
10. Write down any one way in which PIASCY messages can help to control the spread of AIDS among school children.

11. Apart from tap root system, name one other type of root system n plants.

12. State any one benefit of a wood lot in a school environment.

13. How does breast feeding promote the health of a baby?

The diagram below shows a hutch. Study and use it to answer questions 14 and 15.



14. State the function of structure marked P.

15. In which way does such a hutch above protect rabbits against attacks from dogs and cats?

16. Give any one importance of food digestion in the human body.

17. Mention any one liquid substance used in thermometers.

18. State the way in which some plants overcome transpiration.

19. Which agricultural practice involves the growing trees, crops and rearing of animals on the same piece of land?

20. Name the vector which spreads bubonic plague to people.

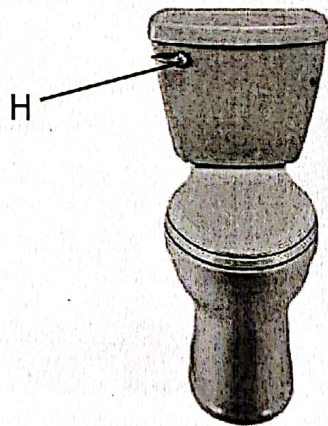
21. How is friction between the lungs and the ribs reduced in the chest cavity?

22. Give one way in which people make use of old jerrycans at home.

23. Which organ in fish has a similar function as the basal skin in snakes?

24. Give one other example of fungi besides mushrooms.

The diagram below shows one of the facilities found in a clean home. Study and Use it to answer questions 25 and 26.



25. Use an arrow with letter w to show the part which holds water for flushing.

26. State the function of part H.

27. What is the role of a queen bee in a hive?

28. State any one way in which water can be used as an energy resource.

29. Write down any one-way diseases caused by bacteria can be controlled from spreading

30. Name one type of electricity.

31. Give any one Vaccine which is administered to babies at birth.

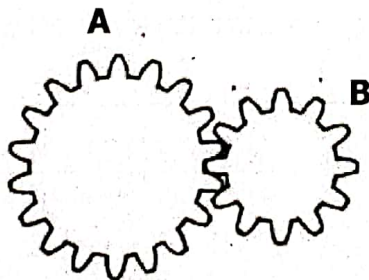
32. Which exotic breed of goats is reared for the production of mohair?

33. State what a pregnant mother should do to prevent giving birth to a baby with oxbow and knock knee legs.

- . Give one way in which reptiles are similar to mammals.
-
35. Which type of soil has smooth and fine particles?
-
36. Write down any one human activity which can lead to air pollution.
-
37. Mention any one life skill which can help school children to avoid alcoholism.
-
38. How does increasing the number of turns in the solenoid help to produce a stronger electro-magnet?
-
39. Give a reason why planting of banana sucker needs to be done during a rainy season.
-

Use the diagram of a simple machine below. Study and use it to answer question 40.

40. (a) Draw arrows on the diagram to show the direction of rotation for the two wheels.



SECTION B: (60 MARKS)

Question 41 to 55 carry four marks each.

41. (a) Name the **two** type of smoking.

(i) _____ (ii) _____

(b) Write down the **two** dangerous substances found in tobacco smoke.

(i) _____ (ii) _____

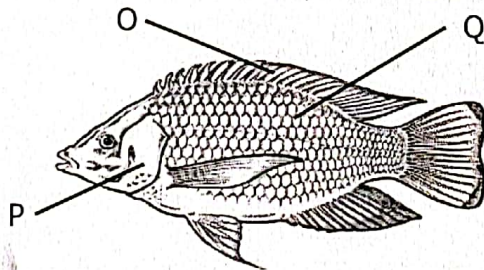
42. (a) State the method of preventing clean water which involves leaving muddy water in a container to settle for some time.

(b) Give a reason why water prepared by the above method is not safe for drinking.

(c) Apart from boiling, state **one** other way of making the above water safe for drinking.

(d) How does the action in (c) above make water safe water for drinking?

The diagram below shows fish. Study and use it to answer questions that follow.



43. (a) Name the parts marked **O** and **P**

(i) **O** _____ (ii) **P** _____

(b) State the function of part **Q** to the fish.

(c) Use an arrow with letter **T** to show the part which helps the fish to swim forward and change direction.

4. (a) Give any one example of each of the following in the environment.

(i) Living natural source of light: _____

(ii) Non- living natural source of light: _____

(iii) Artificial source of light: _____

(b) Give a reason why the moon is not a source of light.

45. (a) State the way in which the worms below enter into the human body.

(i) Tape worm: _____

(ii) Hook worm: _____

(b) Give a reason for the following body conditions in people.

(i) tape worm infestation causing stunted growth.

(iii) hook worm infestation causing anemias.

46. (a) Name the instrument which is used to measure the amount of rainfall received in an area.

(b) Why is rainfall measured in millimeters?

(c) Write down any two ways in which too much rainfall is dangerous in the environment.

(i) _____

(ii) _____

47. (a) State the importance of excretion in the human body.

(b) Study and fill the table below correctly.

Excretory organ	Excrete
skin	_____
_____	urine
lungs	_____

48. (a) Apart from castration, mention two other practices which cause harm to animals on a farm.

(i) _____

(ii) _____

(b) Name the tool which is used to castrate animals under the closed operation method.

49. The diagram below shows an accident on the road. Study and use it to answer questions that follow



(a) Mention two possible injuries which the victims could have got.

(i) _____ (ii) _____

(b) Apart from the injuries above, give one other effect of such accident in community.

(c) State one way in which such accidents can be controlled on the road.

50. Give a reason for the following happenings about light.

(a) a person inside a house can see an object outside through a clear window glass.

(b) a person looks through a thin cloth and cannot see the object on the other side clearly.

(c) a child's cheeks appears red during broad day light.

(d) a car board appears black.

51. (a) Give the meaning of anti-social behavior.

(b) Write down any three common anti- social behaviour among primary school children.

(i) _____ (ii) _____ (iii) _____

52. (a) Mention any one food resource obtained from animals.

(b) State any one way in which animals are important energy resource to people.

(c) Give two ways in which people care for animals.

(i) _____

(ii) _____

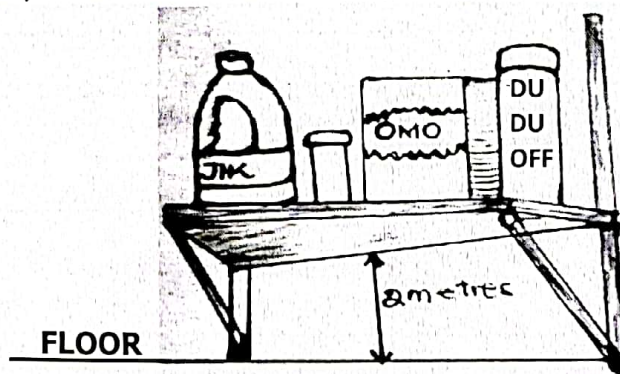
53. Apart from reptiles, name the other two groups of cold-blooded animals.

(i) _____ (ii) _____

b) How are reptiles similar to birds in terms of fertilization?

c) In which way do reptiles help to control diseases spread by houseflies and mosquitoes?

54. The diagram below shows some of the proper ways of showing drugs.
Study and use it to answer questions that follow.



- (a) State any two bad things which have been satisfied by the way of storing drugs as illustrated above
(i) _____ (ii) _____
- b) Write down two bad things which are protected against by the way drugs are being stored in the diagram above.
(i) _____ (ii) _____
55. (a) Name the type of muscles in the human body which look under the will of the brain.

- b) Give two examples of muscles which worker under the will of the brain.
(i) _____ (ii) _____
- c) How are muscles useful in the circulatory system?

END