

RUKUNGIRI DISTRICT EXAMINATION PANEL

P.L.E MOCK 2022.

INTEGRATED SCIENCE

Time Allowed: 2 Hours 15 Minutes.

Index No

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Candidate's Name

Candidate's Signature

School Name:

District :
.....

Read the instructions very carefully.

1. This paper is made up of **two** Sections; **A** and **B**.
2. Answer **all** questions. All answers to both sections must be written in the spaces provided.
3. All answers must be written using a blue/black pen or in ink.
4. Unnecessary crossing out of answers will lead to loss of marks.
5. Any illegible handwriting may lead to loss of marks.
6. Do not fill anything in the boxes shown;

"Examiners' use only."

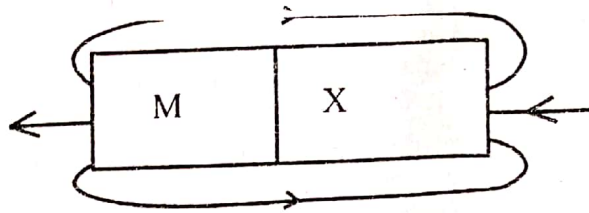
FOR EXAMINERS USE ONLY

QN. No.	Marks	Sign.
1- 10		
11- 20		
21-30		
31-40		
41- 43		
44 -46		
47-49		
50-52		
53-55		
TOTAL		

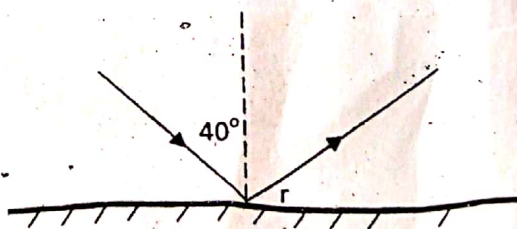
SECTION A

1. Give any one importance of good posture.
.....
2. Which element of Primary Health Care is promoted by bathing every day?
.....
3. How useful are white blood cells in the human body?
.....
4. Give any one reason why bees are called social insects.
.....

Study the diagram below and use it to answer questions 5 and 6.

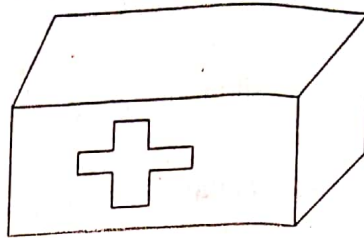


5. Name the magnetic pole marked X
.....
6. Which property of magnetic is illustrated in the diagram above?
.....
7. Why is water called a universal solvent?
.....
8. Write PIASCY in full.
.....
9. What are renewable resources?
.....
10. Point out any one use of a hoe in gardening.
.....
11. State the role of the tongue in the digestion of food.
.....
12. Finds the value of angle r in the diagram below.



13. Which type of clouds is responsible for lighting and thunder?
.....
14. Point out any one Primary sex characteristic in girls.
.....
15. How does the reproduction of bacteria differ from that of fungi?
.....
16. Why are water closet toilets not common in rural areas?
.....
17. In Rabbit keeping, what is meant by a nest?
.....
18. Mention one characteristic of essential drugs.
.....
19. What is the importance of flossing teeth?
.....
20. Point out one use of the liver to man.
.....
21. Why is it difficult to stop petrol fires using water?
.....
22. How is wind used as a resource?
.....
23. What are water cleaned diseases?
.....
24. Define the term accident.
.....
25. Why do farmers carry out castration of their animals.
.....
26. How is a drone bee useful in the beehive?
.....
27. Why are sick people referred as invalids?
.....
28. Mention any one item used to clean the body.
.....
29. By what process is dew formed at night.
.....
30. Why do earth worms come of the soil when it has rained?
.....

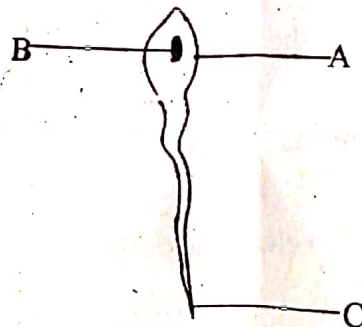
Study the diagram below and answer the question about it.



31. Mention any one component of the tool above.
.....
32. How can one prevent diarrhoeal diseases at school?
.....
33. What is friction?
.....
34. Point out any one advantage of keeping local breeds of goats.
.....
35. Why should cattle farmers fence their farms?
.....
36. Apart from hearing, give any one other function of the ear.
.....
37. Suggest any one way how animals depend on other animals.
.....
38. Give one device used to store sound.
.....
39. Identify one situation where a mother is forced to use bottle feeding to her baby.
.....
40. Why are physical exercises good for human health?
.....

SECTION B

41. (a) The diagram below shows the male gamete. Use it to answer the questions that follow.



- (a) Identify the parts labeled with letters A and B.

(i) A..... B.....

(b) Which male reproductive organ produces the gamete shown in the diagram above?
.....

(c) What type of reproduction takes place in humans?
.....

42. (a) Point out any **two** functions of fungi in the environment.
.....

(i)

(ii)

(b) Suggest any **two** fungal diseases in human beings.
.....

(i)

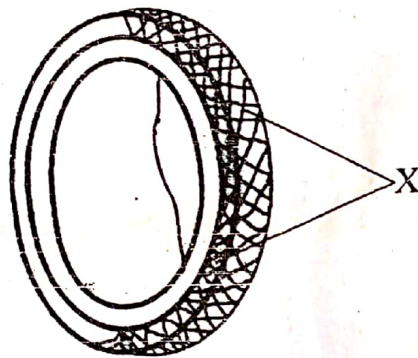
(ii)

43. (a) What is friction?
.....

(b) Suggest any one type of friction.
.....

(c) Give one advantage of friction in day to day life.
.....

The diagram below shows a car tyre. Use it to answer the question about it.



(d) How important are the structures labeled X on the car tyre shown above?
.....

44. (a) State the difference between scalds and burns.
.....

(b) What is poisoning?
.....

(c) Mention any two examples of common poisons.
.....

(i)

(ii)

45. (a) Define the term crop pest.
.....

(b) Mention any one characteristic of root crop pests.
.....

(c) Why is cassava called a root tuber crop?
.....

(d) How do heavy rains affect cassava during harvesting?

46. Use the table below to answer questions about it.

Lichens,	Pines,	Mosses,	Fir
Cassava,	Tobacco.		

(a) From the table above which two plants reproduce by means of spores?

(i)

(ii)

(b) How is the reproduction of groundnuts similar to that of pines?

(c) State the function of cones on pines.

47. Match the following diseases with their vectors.

Diseases

vector

Scabies

Lice

Dysentery

Culex mosquito

Typhus fever

Itch mites

Elephantiasis

Houseflies

(i) Scabies.....

(ii) Dysentery.....

(iii) Typhus fever.....

(iv) Elephantiasis

48. (a) Mention any two inorganic components of soil.

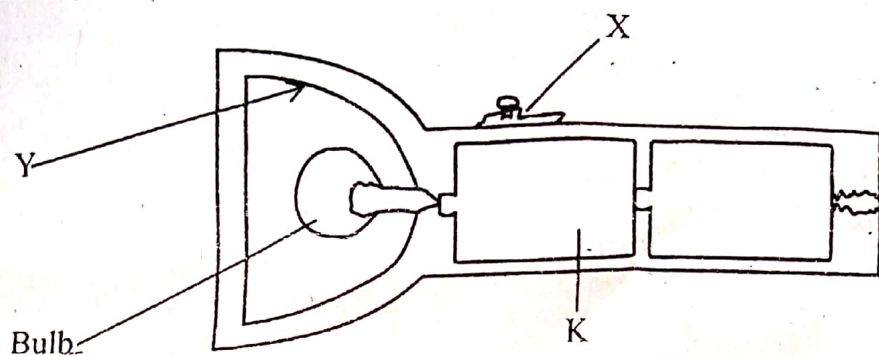
(i)

(ii)

(b) How are biodegradable materials important to the soil?

(c) Name one product of clay used in storing water at home.

49. Study the diagram of a torch and use it to answer the questions that follow.



(a) Name parts labeled.

(i) Y (ii) X

(b) What type of energy is stored in part K

.....

(c) Mention the energy change that takes place in the bulb when part X is closed.

.....

50. (a) State any two examples of wedges

(i)

(ii)

(b) Mention any two uses of wedges in our daily lives.

(i)

(ii)

51. (a) How are burrows important to wild rabbits?

.....

(b) Which breed of rabbits is easily attacked by diseases?

.....

(c) Suggest any two diseases that attack rabbits.

(i)

(iii)

52. (a) What is respiration?

.....

.....

(b) How is oxygen important during respiration?

.....

(c) Mention any two respiratory organs in man.

(i)

(ii)

53. (a) What is heat energy?

.....
.....

(b) In which units is heat measured?

.....

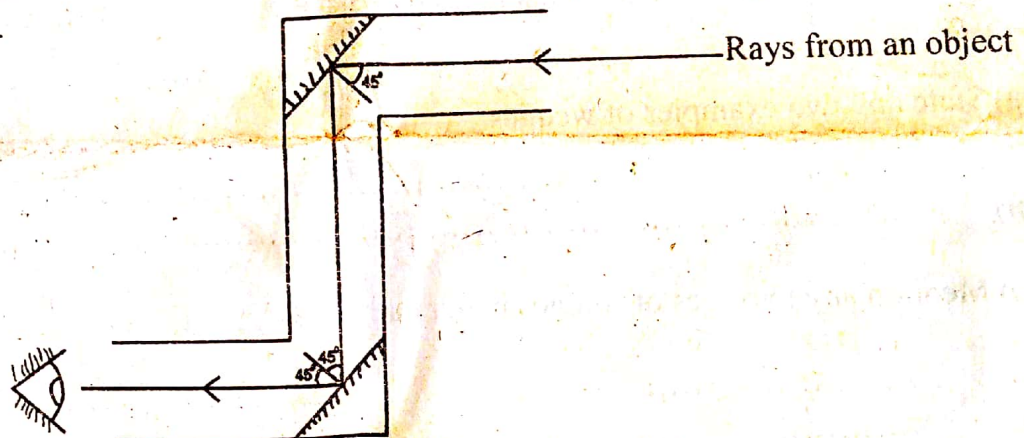
(c) How does heat affect ice?

.....

(d) By what process does heat from the sun reach the earth?

.....

54. The diagram below shows an instrument that uses light. Use it to answer the questions that follow.



(a) Name the instrument shown above.

.....

(b) Under which principle does the above instrument work?

.....

(c) What the name is given to mirrors used in the above instrument.

.....

(d) State any one use of the above instrument.

.....

55. (a) Mention any **two** ways of administering vaccines into a human body.

(i)

(ii)

(b) Mention any **two** ways how the body gets natural immunity.

(i)

(ii)

END