



BUKEDDE PRE-PLE EXAMINATION

2024

INTEGRATED SCIENCE

Time Allowed: 2 hours 15 minutes

Index No.

Random No.	Personal No.

Candidate's Name.....

Candidate's Signature

School Random Number

District Random Number

Read the following Instructions carefully:

1. The Paper has two sections A and B

Section A has 40 questions and section B has 15 questions

2. All answers to both Section A and B must
be written in the spaces provided,

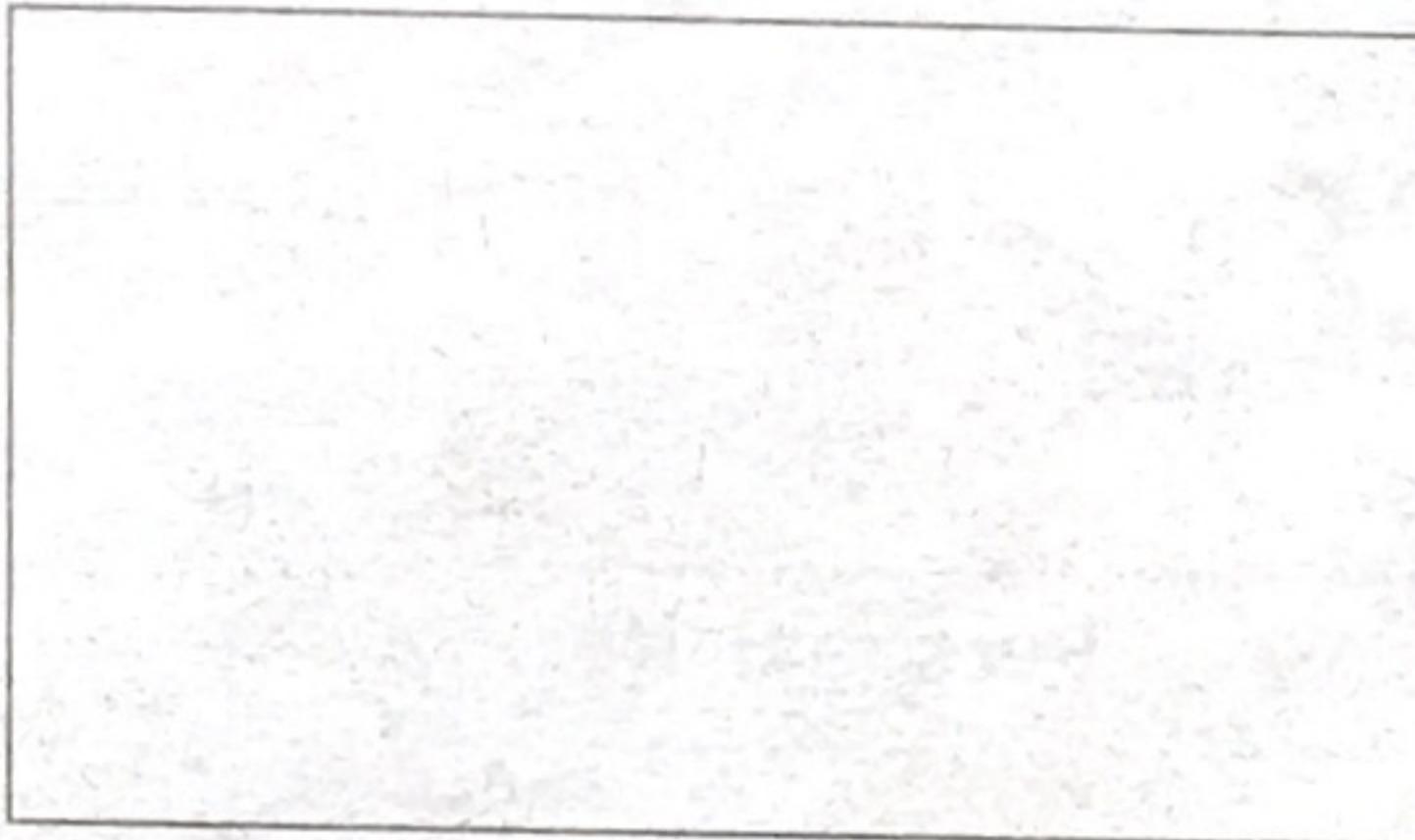
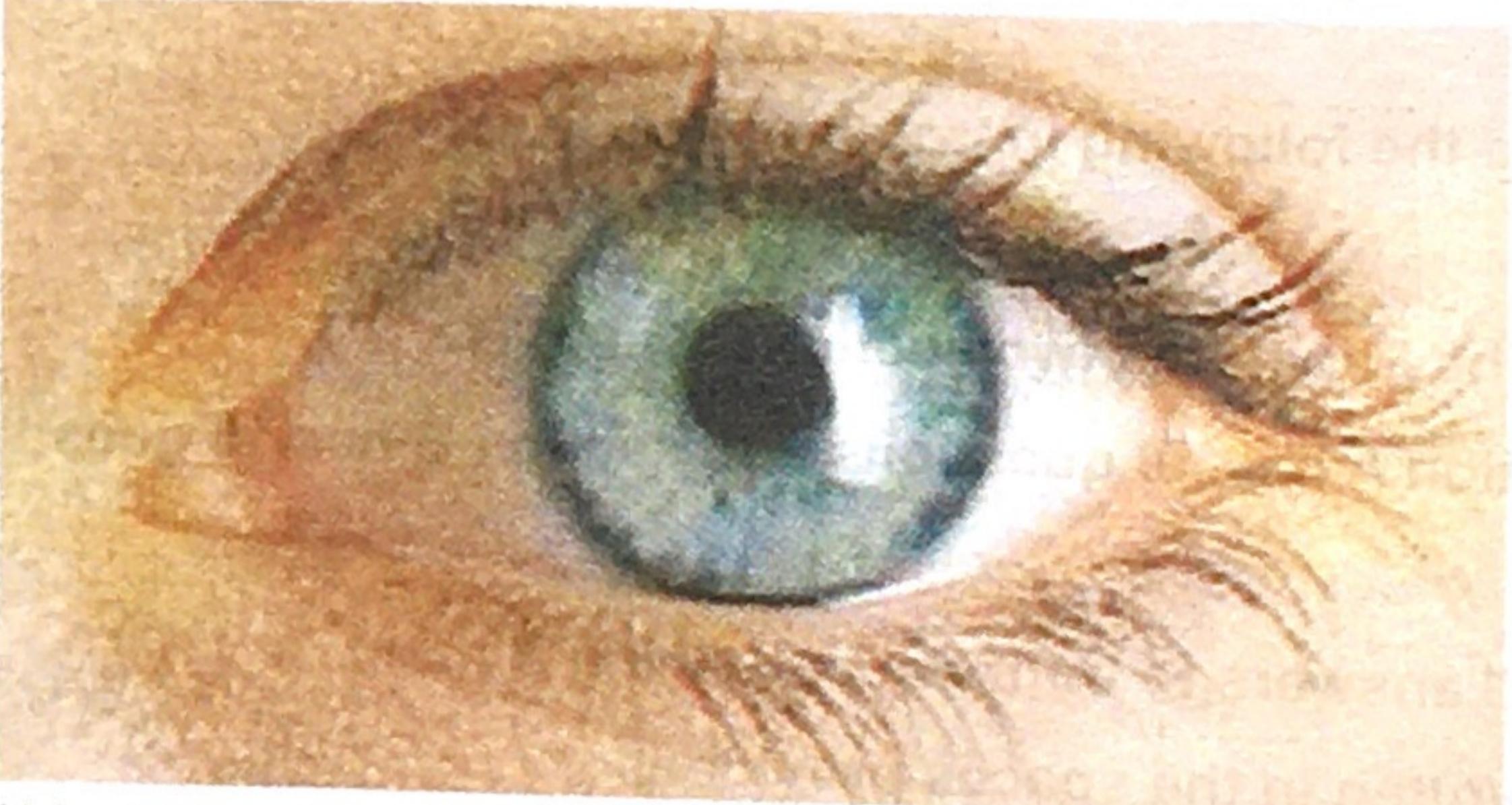
3. All answers must be written using a blue or black ball point pen or
ink. Diagrams should be drawn in pencil.

4. Unnecessary changes in your work may lead to loss of marks.

5. All handwriting that cannot be easily read may lead to loss of marks.

MARKS	
Qn. No.	Marks
1 - 40	
41 - 55	
TOTAL	

SECTION A

1. Name any one material bees use to make honey.
2. Which step in cleaning clothes helps to remove soapy water from a cloth?
3. How is a residential house made fresh to live in at all times?
4. In which way is ash added into manure important?
5. Give any one cause of truancy in schools.
6. Name the enzyme that breaks maltose into glucose in the human body.
7. Why is it easy to castrate bull in a cattle crush than an open area?
8. In the space provided below, draw the foot of a bird of prey.
- 
9. Apart from periodontal disease, mention any other disease of the teeth.
10. State the quality of a good sty.
11. Why do insect pollinated flowers produce scent?
12. Why should a couple go together for treatment in case they have syphilis?
13. How does mulching help to reducing soil erosion in the garden?
14. What important role does the septum play in the human heart?
15. What type of change takes place when a seed develops into a seedling?
16. How is boiled water different from distilled water?
17. What happens to the cotyledons of a bean seedling after germination?
- The diagram below shows a small garden used to raise seedlings in crop growing. Use it to answer questions 18 and 19.
- 
18. Why should the above structure be slightly raised?
19. Name any one crop first planted in such a structure
20. Why is it important to keep the school compound clean?
21. To what group of invertebrates does an octopus belong?
22. Why is transplanting of such seedlings recommended to be done in the evening?
23. Mention any one cause of dehydration in babies.
24. State one reason why it is not recommended to trim finger nails by biting.
25. Why should a pregnant woman be fed on more food values than others?
26. Mention the first step followed when one wants to recover salt from a mixture of sand and salt after collecting it.
27. Mention any one use of mushrooms to people apart from eating.
28. Give one condition necessary for photosynthesis.
29. Mention any one factor that determines the amount of urine a person produces.
30. Why is it important to fence a cattle farm?
31. Which part of electric circuit helps in the reduction of dangers of short circuits?
32. Give one effect of excessive consumption of fats in our diet.
33. Mention the fibre got from rabbits.
34. How does a sweater help in the control of the body temperature?
- The diagram below shows front view of the human eye. Use it to answer questions 35 and 36.
- 
35. Using an arrow with letter E show the part affected by conjunctivitis on the above diagram.
36. How are eye lashes important to the above part of the human body?
37. Why is a tweezer regarded as a third-class lever?
38. Mention any one effect of mirages formed on the tarmac roads.
39. How is the use of a gauze different from that of a plaster in first aid management?
40. Which vaccine is given to babies against polio at 6 weeks?

SECTION B

41. (a) Name any two examples of milk breeds of goats.

i) _____

ii) _____

(b) Give two reasons for feeding goats properly on a farm.

i) _____

ii) _____

42. (a) Give any two advantages of thinning.

i) _____

ii) _____

(b) Apart from thinning give two other practices done on a farm that improve on crop spacing in the garden.

i) _____

ii) _____

43. (a) Give the function of the following parts of a flower.

i) petals: _____

ii) sepals: _____

(b) State what happens to pollen grains when they land on a stigma?

(c) Give any one characteristic of insect pollinated flowers.

44. (a) Give any two examples of organic fertilizers.

i) _____

ii) _____

(b) Give two advantages of organic fertilizers to the soil.

i) _____

ii) _____

45. a) What is the best way of separating the following mixtures.

i) Sand and beans: _____

ii) Maize flour and iron nails: _____

b) Give the scientific name for the following solutions.

i) A solution that cannot dissolve any more solute.

ii) A suspension solution.

46. The diagram below is a method of rearing poultry. Study it and answer question 43.



(a) Name the method of rearing poultry shown above.

(b) Which poultry vice is mainly controlled by the above method of rearing poultry.

(c) Give two disadvantages of the above method of rearing poultry.

i) _____

ii) _____

47. (a) How are the following applied in our daily life?

(i) wedges: _____

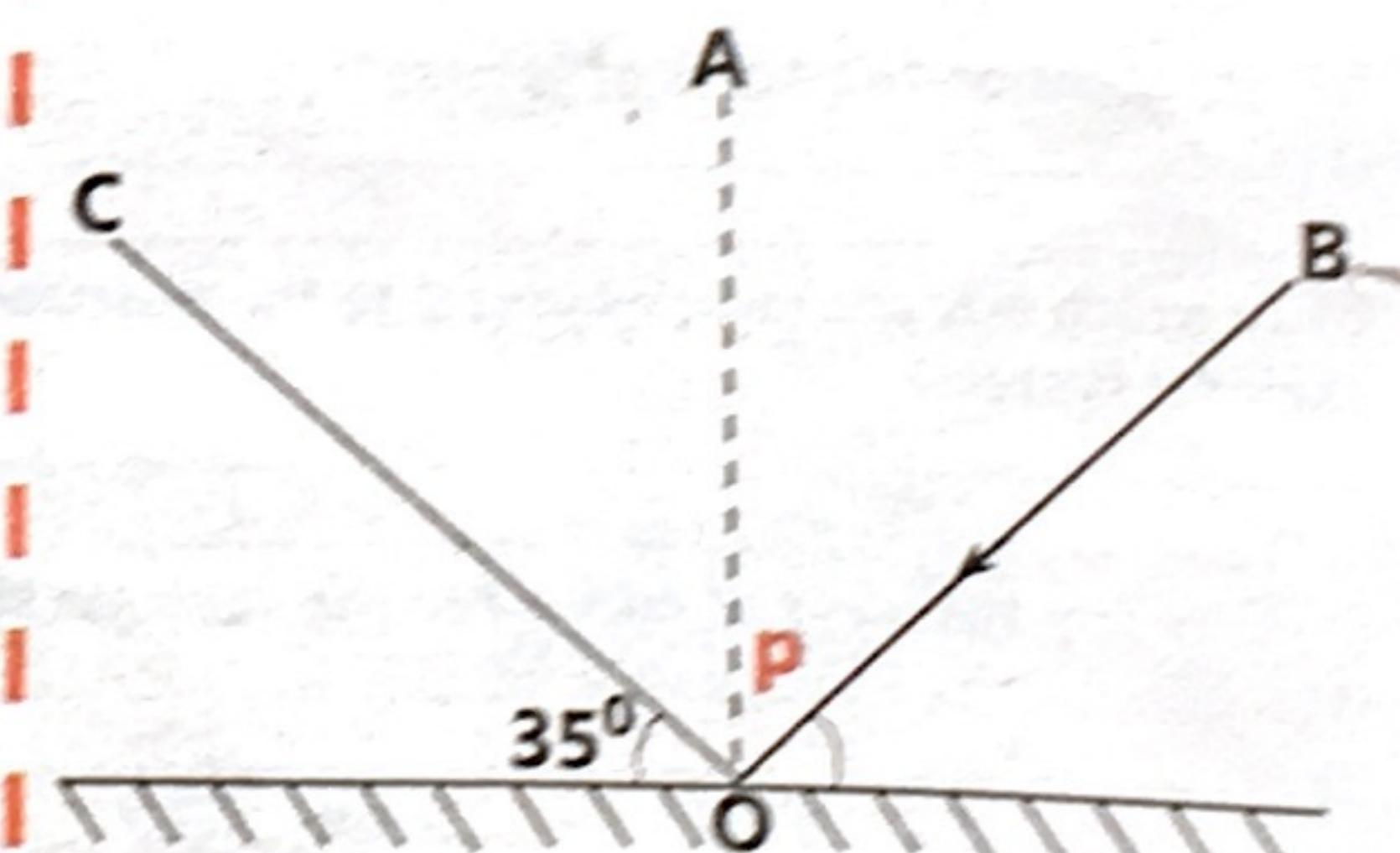
(ii) pulleys: _____

(iii) Screws: _____

(b) Why is it good to lift the load when the effort arm is longer than the load arm?

ii) _____

49. The diagram below shows rays of light on a mirror. Use it to answer questions that follow.



48. a) To which group of living things are mushrooms?

b) How are mushrooms different from yeast in terms of reproduction?

c) Give two uses of yeast in our daily life.

i) _____

(a) What type of reflection is shown above?

(b) Complete and name ray CO

(c) What is the size of angle P in degrees?

50. Study the diagram below and answer questions that follow.



a) Which element of PHC is being promoted by the above community members?

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

b) Identify any two diseases that can be controlled by the above activity.

i)
ii)

c) Apart from the above activity, mention any other health practice that keeps the environment clean.

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

51. a) Give one example of each the following resources in the environment.

i) Renewable resources

ii) Non-renewable resources

b) State two ways of conserving non-renewable resources in the environment.

i)

ii)

52. (a) Mention two types of joints.

i)

ii)

b) In which way are muscles useful to the muscular skeletal system?

(c) Give any two ways of caring for the muscular skeletal system.

i)

ii)

53. a) Why is it good to stock a hive in the evening?

b) State any two factors considered when stocking a hive.

i)

ii)

c) Give the function of a queen excluder found in a modern bee hive.

54. Match the items in list A with those in B.

A

Fallopian tube

Ileum

Cortex

Alveoli

B

absorption of digested food

diffusion of gases.

fertilisation

filtration of blood.

a) Fallopian tube.

b) Ileum.

c) Cortex.

d) Alveoli.

55. a) Apart from carbohydrates, give another class of food that helps people to get energy.

b) What is the best way of preventing deficiency diseases in babies?

c) Give two examples of mineral deficiency diseases in humans.

i)

ii)