

SMART STAR EXAMINATIONS BOARD

PLE PREPARATION EXAMINATION SET ONE

2024

INTEGRATED SCIENCE

Time allowed : 2 hours 15 minutes

EMIS No.						Personal No.		

Candidate's Name

School Name.....

Read the following instructions carefully;

1. This paper has **two** sections: **A** and **B**.
Section **A** has **40** questions and section **B** has **15** questions.
2. **All** the working for both sections **A** and **B** must be shown in the spaces provided.
3. All working must be done using a **blue** or **black** ball-point pen or fountain pen.
Any work done in pencil other than graphs, pictures and diagrams will **not** be marked.
4. Unnecessary **changes** of work and any handwriting that cannot easily be read may lead to **loss of marks**.
5. Do **not** fill anything in the boxes indicated: **“For Examiners’ Use Only”** and boxes inside the question paper.

FOR EXAMINERS’ USE ONLY

QN. NO.	MARK	EXR’S NO.
1 - 10		
11 - 20		
21 - 30		
31 - 40		
41 - 43		
44 - 46		
47 - 49		
50 - 52		
53 - 55		
TOTAL		

SECTION A: 40MARKS

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

1. By what process is rain formed in a water cycle?

.....

2. Why are we advised to put on shoes when walking in damp dirty places?

.....

3. What is sanitation?

.....

.....

Use the diagram below to answer questions **4** and **5**



4. Name the garden practice shown above.

.....

5. State one advantage of the garden practice shown above.

.....

6. Write HIV in full.

.....

7. How are vectors dangerous in the environment?

.....

8. State one characteristic of seeds dispersed by animals.

.....

9. How is a magnet useful to the person using a maximum and minimum thermometer?

.....

10. What are farm records?

.....

.....

11. How do plants benefit from the sun?

.....

12. What is puberty?

.....

.....

13. Why are arteries thick walled?

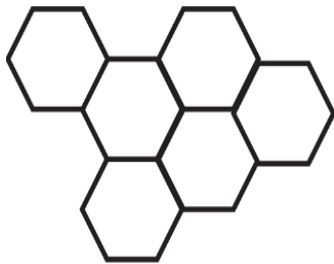
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14. State one factor that hinders food production.

.....

Use the diagram below about bee keeping to answer question

15 and **16**.



15. Identify the structure shown above.

.....

16. Where do we find the above structure?

.....

17. State the difference between heat and temperature.

.....

.....

18. Name one breed of rabbits reared commonly for meat production.

.....

19. State one way of caring for garden tools.

.....

20. How does painting prevent a garden tool from rusting?

.....

21. In the space below, draw a diagram of a fibrous root system.



22. What element of PHC is promoted by washing clothes?

.....

23. What type of teeth are not found in the milk set?

.....

24. What type of energy is possessed by a nail fixed in the wall?

.....

25. State one structural difference between a cock and a hen.

.....

.....

26. What is the main reason for keeping Toggenburg goats?

.....

27. State one advantage of using electricity.

.....

28. What is a nuclear family?

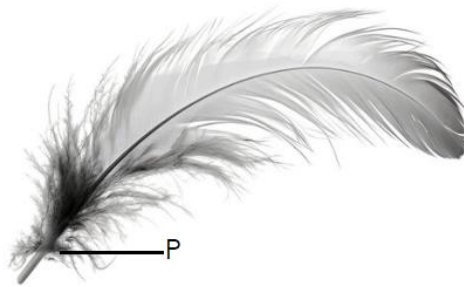
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29. Give one importance of carrying out regular physical exercises to the circulatory system.

.....

Use the diagram below to answer question **30** and **31**



30. Give the type of feather shown above.

.....

31. Name part marked P on the diagram above.

.....

32. Give one way of preparing food in our homes.

.....

33. How is a frog able to live in water?

.....

34. How is brushing of teeth regularly important to a P.7 pupil?

.....

35. How can one make water safe for drinking?

.....

36. How are vaccines important in the body?

.....

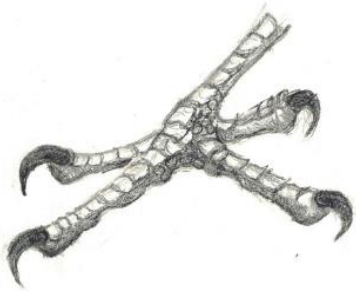
37. Why is a baby given ORS when he/she starts passing out watery stool?

.....

38. Why is a plant considered a living thing?

.....

Use the diagram below to answer question **39** and **40**.



39. Name one bird with the foot as the one shown above.

.....

40. To which group of birds does the above foot belong?

.....

SECTION B: 60 MARKS

Questions **41** to **55** carry four marks each.

41a) Give two types of smoking.

i)

ii)

b) State one reason why people smoke.

.....

c) Give one disease not caused but worsened by smoking.

.....

42a) State any two ways diseases spread from one person to another.

i)

ii)

b) Give one way of controlling water habitat vector diseases.

.....

c) How does sleeping under a treated mosquito net control spread of malaria?

.....

43a) What is soil profile?

.....

.....

b) Give the second layer of the soil profile.

.....

c) Why does top soil support plant growth?

.....

d) Give one place where soil profile can be viewed.

.....

44. The diagram below shows a tuber crop. Use it to answer questions that follow.



a) Name part X.

.....

b) How important is part Y to the tuber crop?

.....

c) Give one example of such a crop.

.....

d) What class of food is mostly obtained from tubers.

.....

45a) Give the difference between burn and a scald.

.....

.....

b) State the first aid for a burn.

.....

.....

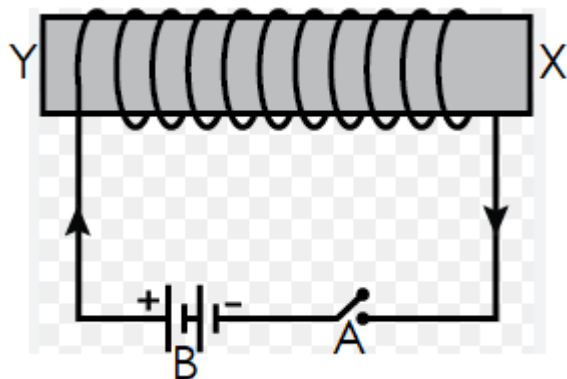
c) Which part of the body is affected by burns and scalds.

.....

d) Give one importance of giving first aid.

.....

46. Use the diagram below to answer questions that follow.



a) Name parts marked A and B

i) A

ii) B

b) Identify pole marked X

.....

c) How is part B important in the method above?

.....

47a) What part of the ear collects sound waves.

.....

b) Why is it bad to clean the ears using a sharp object?

.....

c) Give the function of ossicles in hearing process.

.....

d) Give one ear disease.

.....

48a) What is soil exhaustion?

.....

.....

b) State two causes of soil exhaustion.

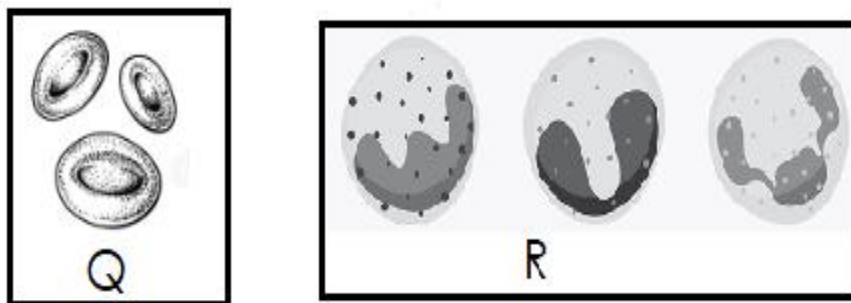
i)

ii)

c) How can a crop farmer control soil exhaustion.

.....

49. The diagram below shows blood cells. Use it to answer questions that follow.



a) Name the blood cell marked R.

.....

b) Give the function of blood cell Q and R.

Q

R

c) Give one disease which destroys blood cell R.

.....

50a) Give the class of food that helps in proper growth of teeth.

.....

b) Name the sensitive part of the tooth.

.....

c) State the function of incisor teeth.

.....

d) Give one way of caring for the teeth.

.....

51. Complete the table below.

Organ	System	Organ function
Heart	circulatory	_____
_____	excretory	Formation of urine
Pancreas	_____	Produces insulin
Epididymis	Reproductive	_____

52a) What is weight?

.....

.....

b) Why do objects weigh less in water than in air?

.....

.....

c) What is standard unit for ;

i) Weight

ii) Mass

53a) What is PHC?

.....

.....

b) State two elements of PHC.

i)

ii)

c) Give one information found on a child health card.

.....

54a) Give one example of a wedge.

.....

b) In which class of levers is a lid opener.

.....

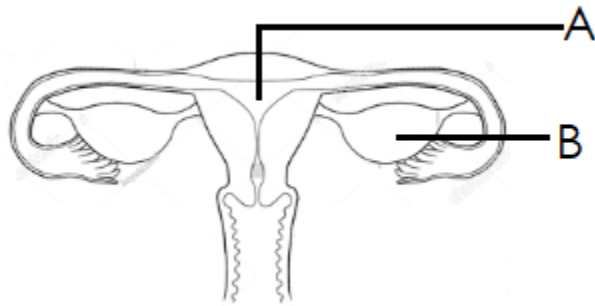
c) Why is a garden hoe regarded as a simple machine?

.....

d) Give one way machines simplify work.

.....

55. Use the diagram below to answer questions that follow.



a) Name parts marked;

i) A

ii) B

b) Use an arrow with letter C to show the part where fertilization takes place.

c) Give one way of caring for the above organ.

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END