

SMART STAR EXAMINATIONS BOARD
PRE – MOCK EXAMINATION SET THREE

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. Give one example of a voluntary muscle.

.....

2. In which part of a plant does photosynthesis take place?

.....

3. Why are pregnant mothers and girls of child bearing age given Tetanus vaccine?

.....

4. Give a reason why a spider is regarded as an arachnid not an insect.

.....

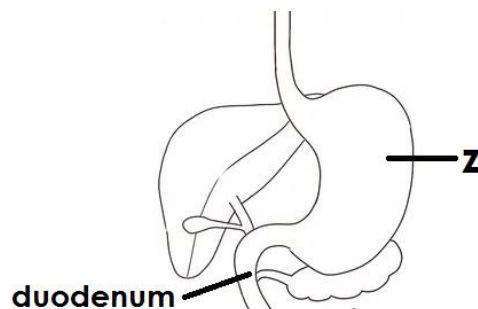
5. As a P.7 boy/girls suggest one way of caring for your ears.

.....

6. Why do lungs increase in size during inhalation?

.....

The diagram below is of a digestive system of man. Use it to answer question **7**.



7. What happens to food in part marked Z.

.....

8. Mention one animal fibre.

.....

9. Why is wood not regarded as a magnetic substance?

.....

10. In your school, how is a rake useful in promoting Sanitation?

.....



11. Why are cockroaches regarded as vectors?

.....

12. Why can't sound travel in a vacuum?

.....

13. How can a farmer preserve his milk for use in two days to come in an urban centre.

.....

14. Name one milk breed of goats.

.....

15. How do people in your area manage windy weather?

.....

16. Why should a patient follow the prescriptions carefully?

.....

17. The diagram below is of a simple machine. Use an arrow with letter P to show the position of the Effort.



.....

18. How can a P.7 pupil improve the soil fertility in a school garden?

.....

Turn Over

19. How do bacteria reproduce?

.....

20. Why is a rabbit house constructed slightly above the ground?

.....



21. How are handkerchiefs useful in promoting personal hygiene?

.....

22. A crush is one of the structures cattle farmers have on their farm. How is it useful?

.....

23. Give one reason why we eat food?

.....

24. Apart from being used as manure, how is cow dung useful in energy production in a home?

.....

25. Name the component of air with the least percentage in the atmosphere.

.....

26. How is the garden tool drawn below useful to a crop farmer?



.....

27. Why does heat travel fastest in gaseous state?

.....

28. Give a reason why loam soil is the best for crop growing.

.....

29. Give one way of maintaining the lungs in good working conditions.

.....

30. Name one root tuber pest.

.....



31. Why is diarrhea regarded as a communicable disease?

.....

32. What happens to a bar magnet when it is freely suspended on a string?

.....

33. Why is a bad health practice to live in a bushy place?

.....

34. Mention one source of direct current electricity.

.....

35. Why is melting known as a physical change?

.....

36. Give one physical component of the environment.

.....

37. Why do veins have valves?

.....

38. Name one external part of a cock.

.....

39. Give one reason why blood should flow to the kidneys.

.....

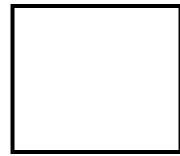
Turn Over

40. Use the diagram below of a basket of fruits to answer questions that follow.



What food value do we get from the above food stuffs?

.....



SECTION B: 60 MARKS

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

41. a) Give the meaning of the term fainting.

.....

.....

b) Why should a person who has fainted;

i) be fanned?

.....

ii) have legs raised above the head level?

.....

c) Give the main cause of fainting.

.....

42a) Name the type of electricity generated by friction.

.....

b) Why is friction regarded as a nuisance force?

.....

c) Give one way of increasing friction on roads.

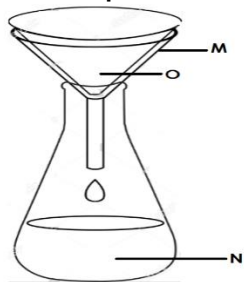
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d) Mention any one lubricant.

.....

43. The diagram below shows one of the ways of separating mixtures.

Use it to answer questions that follow.



a) Name parts marked;

M.....

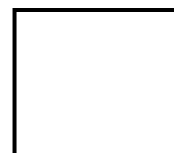
N.....

b) What scientific name is given to part marked O?

.....

c) Why is water got by the above method not good for human drinking?

.....



44a) What is family planning?

.....

.....

b) Mention two natural family planning methods.

i)

ii)

c) Why are people encouraged to practice family planning?

.....

45a) Name the method of making magnets where electricity is used.

.....

b) Give one energy change in a bulb when the switch is closed.

.....

c) Mention one appliance that uses both electricity and magnetism.

.....

d) How can use of electricity reduce deforestation?

.....

46.a) Name one disease immunized against at birth.

.....

b) State two ways through which one can acquire natural immunity.

i)

ii)

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

.....



Turn Over

47. Use the table below to answer questions that follow.

A	B	C	D
Newts	Tilapia	Slug	Turtle
Toads	Mud fish	Squids	Gecko
Salamanders	Cat fish	Cuttle fish	cobra

a) To which group of vertebrates do animals in group C belong?

.....

b) How are animals in group A similar to those in D.

.....

c) Toads and Tilapia both live in water, how do they differ?

.....

d) Give another example of an animal that can be grouped with those in D.

.....

48a) Mention two weather instruments that are kept in a Stevenson Screen.

i)

ii)

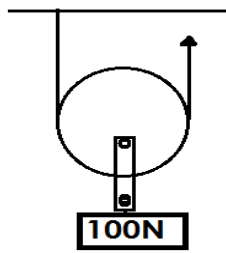
b) How is weather forecasting helpful to a farmer?

.....

c) Give one physical process involved in the rain cycle.

.....

49. The diagram below is of a simple machine. Use it to answer questions that follow.



- a) Name the type of simple machine drawn above.

.....

- b) How does the above machine simplify work?

.....

- c) Mention one force that reduce the efficiency of the machine above.

.....

- d) Calculate the effort needed to carry the load.



- 50a) Give two ways how soil is formed.

i)

ii)

b) Which type of soil is commonly used for;

a) pottery.....

b) making glasses

51a) What is echo?

.....

b) How are echoes useful to the following?

i) sailors.....

ii) Bats.....

iii) Give one way of reducing echoes in a cinema hall.

.....

52a) Mention two examples of spore producing plants.

i)

ii)

b) How are the following plants propagated?

Pines.....

pineapples



53. Match the **energy resources** to their **sources**.

- | | | |
|------------------------|---|----------------------|
| Hydroelectricity | - | burning coal |
| Geothermal electricity | - | sun |
| Solar electricity | - | steam of hot springs |
| Thermal electricity | - | fast flowing water |

Hydroelectricity

Geothermal electricity.....

Solar electricity.....

Thermal electricity

54a) Name the first set of teeth in children.

.....

b) Give a reason why the following are done on teeth.

i) brushing

ii) flossing

c) How can children prevent broken teeth?

.....

Turn Over

55a) Apart from pregnant woman, give another group of vulnerable people.

.....

b) Why should a pregnant woman be fed on foods rich in;

i) proteins.....

ii) iron

c) State one way of preventing sickness in a home without using drugs.

.....



SSEB WISHES YOU SUCCESS IN YOUR MOCKS AND PLE-2024