GOLDEN BELL KINDERGARTEN AND PRIMARY SCHOOL

PRE-MOCK SET ONE EXAMINATION 2024

PRIMARY SEVEN

INTEGRATED SCIENCE

TIME: 2hours 15 minutes

Name:……..……

Index Number: ……

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

Read the following instructions carefully;

1. The paper has two sections: **A** and **B.** Section **A** has 20 questions 40 marks and Section B has 15 questions 60 marks.
4. Attempt **ALL** questions. All answers ***MUST*** to both Sections **A** and **B** must be written in the spaces provided.
5. All answers must be written using **a blue pen** . Only diagrams and graph work should be done in a pencil.
6. Unnecessary alteration of work will lead to loss of marks.
7. Any handwriting that cannot easily be read may lead to loss of marks.

SECTION A (40 MARKS)

1. Identify the main agent of soil erosion.

_____

2. Why do people practice terracing along the slopes of Mt. Elgon?

_____

3. Why do farmers plant trees around their gardens?

_____

4. How is too much sunshine a block of food path?

_____

5. Why would drum **B** produce a higher pitch than drum **D**?

B

C

_____

6. Why do farmers practice docking to ewes?

_____

7. How does a choroid control internal reflection within the eye?

_____

8. Why is a single movable pulley having the mechanical advantage of 2?

_____

9. How do scarecrows control pests in a rice garden?

_____

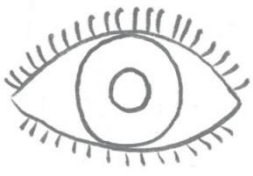
10. Why is it that most pupils at Golden Bell do not suffer from tapeworm infections?

_____

11. What is the use of a switch in a complete electric circuit?

_____

12. Using letter **P** show the pupil on the eye below.



13. What special name is given to the pregnancy that develops from the oviduct?

_____

14. Which STD affects the human liver?

_____

15. Why is the pulp cavity considered the most sensitive part of the human tooth?

_____

16. Which property of a magnet helps pilots to tell direction?

_____

_____

17. How do plants benefit from animals in a biodiversity?

_____

18. What is the importance suckers to tapeworms?

_____

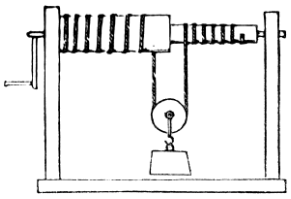
19. How do legumes improve soil fertility?

_____

20. How is pellagra similar to scurvy?

_____

Use the simple machine below to answer questions 17 and 18.



21. To which type of simple machines does the machine above belong?

_____

22. How can **one** improve on the proper working of the machine drawn above?

_____

23. How is cattle keeping important to a crop farmer?

_____

24. How are tapeworms obtain their food?

_____

25. Why is the breaking of an egg referred to as a physical change?

_____

26. Why is clay soil having the highest capillarity?

_____

27. What is a weed?

_____

28. Why are people advised to cut their fingernails short?

_____

29. What is the use of water during germination?

_____

30. Identify any **one** advantage of keeping rabbits.

_____

31. How do hookworm's entre the human body?

_____

32. Mention any **one** breed of chicken kept in Uganda.

_____

33. What is the role of drone bee in a hive?

_____

34. How can we control kwashiorkor in children?

_____

35. How is the use of living body cells different from that of the lungs in the body?

_____

_____

36. Give any **one** importance of proteins in the body.

_____

37. What product is got by burning firewood under limited supply oxygen?

_____

38. Identify any **one** respiratory disease worsened by smoking.

_____

39. How is recycling the most recommended method of waste management?

_____

40. Why are most germs regarded as microscopic?

_____

SECTION B (60 marks)

41. (a) Identify any **two STDs** caused by viruses.

(i) _____

(ii) _____

(b) In which **two** ways can one of the diseases mentioned in **41 (a)** be controlled.

(i) _____

(ii) _____

42. (a) Name any **two** blood cells.

(i) _____

(ii) _____

(b) How is the pulmonary vein useful during blood circulation the body?

_____

(c) How is the work of machine x different from that of machine y?

x

y

_____

_____

43. (a) Identify any **two** accidents whose first aid is tepid sponging.

(i) _____

(ii) _____

(b) What is the main reason for giving first aid?

_____

(c) How are suture threads useful when giving first aid to a casualty with a deep wound?

_____

44. (a) Give any **one** characteristic common to all dicotyledonous seeds.

_____

(b) Why should farmers alternate deep rooters with shallow rooters in a crop rotation plot?

_____

(b) Identify any **two** advantages of crop rotation to a crop farmer.

(i) _____

(ii) _____

45. (a) Write down any **two** advantages natural incubation has over artificial incubation.

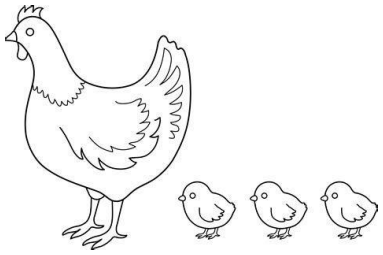
(i) _____

_____

(ii) _____

_____

(b) How do chicks benefit from this type of brooding?



_____

_____

(c) Name any **one** cause of poultry vices.

_____

46. (a) Name the method of preserving food, which involves putting ice cubes in fish bucket.

_____

(b) How does the above method preserve fish?

_____

(c) Identify any **two** signs of food that has gone bad.

(i) _____

(ii) _____

47. (a) Identify any **two** factors that determine the size of images formed by a pinhole camera.

(i) _____

(ii) _____

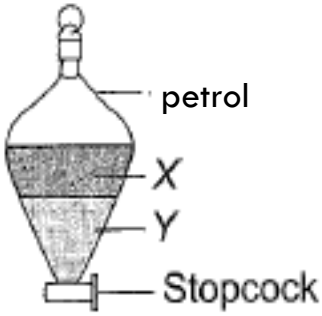
(b) How can internal reflection in a pinhole camera be controlled?

_____

(c) Which part of a pinhole camera has the same function as the aperture of a lens camera?

_____

48. **<u>Three liquids were uniformly mixed in the container below. Use it to answer the questions that follow.</u>**



(a) Which letter represents;

(i) Water ? _____

(ii) Mercury? _____

(b) Why did liquid **x** float on liquid **y**?

_____

(c) Why is it not advisable to put out petrol fire using water?

_____

49. (a) Why is carbon dioxide used in the preservation of bottled drinks?

_____

(b) What is the use of an axe always placed besides a water- hose in malls?

_____

_____

(d) Name any **two** uses of oxygen gas in our environment.

(i) _____

(ii) _____

50. **<u>Match the types of nutrition to their meanings.</u>**

Type of nutrition	**meaning**
Saprophytic nutrition	feeding on already made food.
Autotrophic nutrition	absorbing nutrients from dead decaying matter.
Parasitic nutrition	making their own made food.
Heterotrophic nutrition	feeding on another living organism. (host)

(a) Saprophytic nutrition _____

_____

(b) Autotrophic nutrition _____

_____

(c) Parasitic nutrition _____

_____

(d) Heterotrophic nutrition _____

_____

51. (a) Identify any **two** groups of people at risk of getting AIDS.

(i) _____

(ii) _____

(b)Write the following in full in relation to AIDS.

(i) PEP _____

(ii) ARVs _____

52. (a) A boy uses a crow bar to lift a stone of **400N** using a force of **100N**. Find how much a crowbar eases work.

(b) What load did a man who used 36kgf using a single fixed pulley lift?

53. (a) How do some plants avoid cross-pollination?

_____

(b) Why do wind pollinated flowers produce a lot of pollen grains?

_____

(c) Why are most flowers having brightly coloured petals?

_____

(d) How is calyx different from corolla?

_____

_____

54. (a) Name any **two** advantage of using natural fertilizers.

(i) _____

(ii) _____

(b) Write down any **one** type of artificial fertilizers.

_____

(c) Why is **NPK** called a straight fertilizer?

_____

55. **<u>The diagram below shows a structure for preparing some wood fuel in Uganda. Use it to answer questions that follow.</u>**

(a) What is the name of the above structure?

_____

(b) Which wood fuel is produced by the above structure?

_____

(c) Why is the above strucure covered by a head of soil?

_____

(d) How is the above activity dangerous to the environment?

_____

End