

THE GIANTS ACADEMIC CONSULT (GACO)

PRE - PLE EXAMINATION SERIES ONE

2024

INTEGRATED SCIENCE

Time Allowed : *2 hours 15 minutes*

Random No.						Personal No.		

Candidate's Name:.....

Candidate's Signature:

District ID No:

FOR EXAMINERS' USE ONLY

Read the following instructions carefully.

1. This paper is made up of two sections. **A** and **B**
2. Section **A** has **40** questions(**40 marks**)
Section **B** has **15** questions(**60 marks**)
3. Answer **all** questions in both sections.
4. All answers must be written in the spaces provided in
blue or **black** ball pointed pen or ink. Only diagrams
should be drawn in pencil.
5. Unnecessary **crossing** of work may lead to loss of mark.
6. Any handwriting that cannot easily be read may lead to
loss of marks.

Qn. No	Marks	Initials
1 - 10		
11 - 20		
21 - 30		
31 - 40		
41 - 45		
46 - 50		
51 - 55		
TOTAL		

SECTION A: 40 MARKS

*Each question in this section carries **one** mark.*

1. Name the type of teeth which develops first in human beings.

.....

2. Give any **one** way in which mulching is disadvantageous to farmers.

.....

3. State the type of weather that helps seeds to germinate.

.....

4. Give the importance of putting a piece of cloth in the mouth of a convulsed person.

.....

5. State the reason why a fish may die immediately after it is removed from water.

.....

6. *The diagram below shows an equipment used in a cattle farm. Study and answer questions 6 and 7.*



6. What name is given to the above tool?

.....

7. How is the above tool useful to a livestock farmer?

.....

8. Name the respiratory organ that helps in exchange of gases in the body.

.....

9. Which group of flowering plants reproduce by means of seeds?

.....

10. How does a hyena benefit from following a lion?

.....

11. Give any **one** way in which regular medical check ups are important to the human body.

.....

12. Which animal disease makes animals to move in circles.?

.....

13. State the importance of mucus found on the lining of the alimentary canal during digestion.

.....

14. How does a skunk protect itself from enemies?

.....

15. Give any **one** factor considered before washing clothes.

.....

16. Which instrument is used to measure the amount of rain water that has entered the ground.

.....

17. State any **one** way in which you can safe guard yourself against drug abuse.

.....

18. Name any **one** force that affects the efficiency of a machine.

.....

19. Give the reason why electric wires are insulated during electric distribution in a house.

.....

20. State **one** principal of Primary Health Care (PHC).

.....

21. How is a cochlea useful during the process of hearing?

.....

22. Why is transplanting of seedlings done in the evening?

.....

23. How does the length of a string affect the pitch of a guitar?

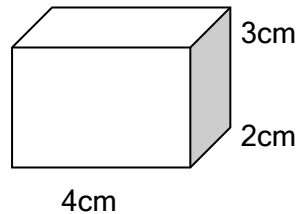
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24. Give any one way how energy saving stoves help to conserve wood fuel.

.....

25. The mass of an object below is 240g. Find its density



26. How does the chlamydia trichomatis bacterium that causes trachoma reproduce?

.....

27. Name any **one** human body organ protected by the ribcage.

.....

28. Mention any **one** condition necessary for rusting to take place.

.....

29. Name the structures used to keep the broken bones of a limb in one position.

.....

30. Why is blood pumped to the lungs before it is sent back to all body parts?

.....

31. Give **one** way in which moulds are similar to ferns.

.....

32. Why is lightning seen before thunder is heard?

.....

33. Name the type of soil used to make glasses.

.....

34. Which part of a flower produces the male reproductive cells.

.....

35. In which part of the alimentary canal is water absorbed?

.....

36. How is a rubbish pit important to a home?

.....

37. Give **one** similarity between light and sound.

.....

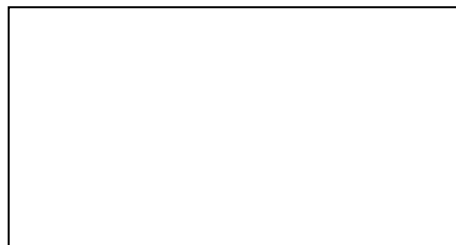
38. State the reason why plants cannot make their own food at night.

.....

39. Which group of materials form shadows.

.....

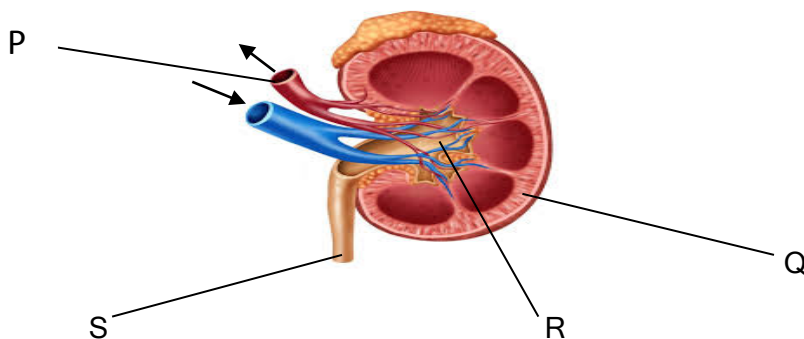
40. In the space below , draw a compound trifoliate leaf.



SECTION B : 60 MARKS

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

41. *Below is the part of the kidney. Use it to answer the questions that follow.*



(a) Name the parts marked **S** and **P**.

(i) S (ii) P

(b) In which part does the filtration of the blood take place?

.....

(c) State any **one** nitrogenous compound excreted by the above organ.

.....

42. a) In which way does severe diarrhoea lead to dehydration?

.....

(b) State the importance of sugar when preparing Oral Rehydration Solution (**ORS**).

.....

(c) Apart from giving **Oral Rehydration Solution**, state any **two** other ways of rehydrating a patient with severe diarrhoea.

.....

43. a) Give one importance of friction to the following:

(i) A pupil doing an exam.

.....

(ii) A bicycle rider.

.....

(b) Mention **two** ways of reducing the force of friction.

.....

.....

44. a) Give any **two** items used to keep our bodies clean.

.....

.....

(b) State any **two** ways of promoting personal hygiene.

.....

.....

45. Match the food values in list **A** and their importance in the human body in list **B**.

LIST A

Proteins

Vitamins

Minerals salts

Fats

LIST B

Provide warmth to the body

Strengthen bones

Repair body tissues

Protect the body from infections

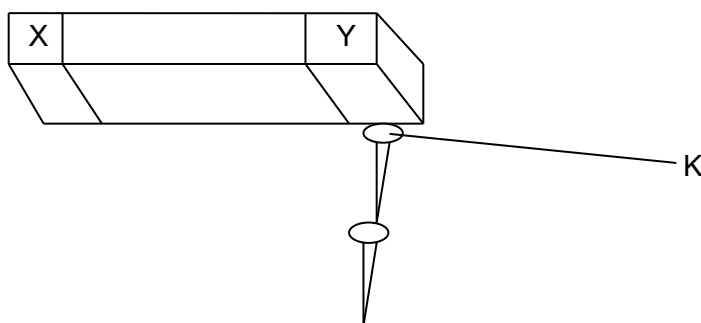
(i) Proteins

(ii) Vitamins

(iii) Mineral salts

(iv) Fats

46. Below is an illustration of a method of making magnets. Use it to answer questions that follow.



(a) Identify the method of magnetization shown above.

.....

(b) Name the pole labelled with letter **K**.

.....

(c) Give **one** way in which a magnet can lose its magnetism.

.....

(d) Give any **one** use of magnets in our daily life.

.....

47. a) How does sound travel?

.....

(b) In which state of matter does sound travel fastest?

.....

(c) Give **one** importance of storing sound.

.....

(d) How do soft porous materials help to reduce echoes in cinema halls?

.....

48. a) In which way is the function of a **fuse** different from that of a **switch** in an electric circuit?

.....

.....

(b) Apart from a fuse and a switch, write down any **two** other components of an electric circuit.

.....

.....

(c) State the reason why the tungsten filament of an electric bulb is coiled.

.....

49. a) Name the type of alcohol that causes madness and blindness when taken in.

.....

(b) Apart from fermentation of alcohol, give any **two** other ways in which yeast is important to people.

.....

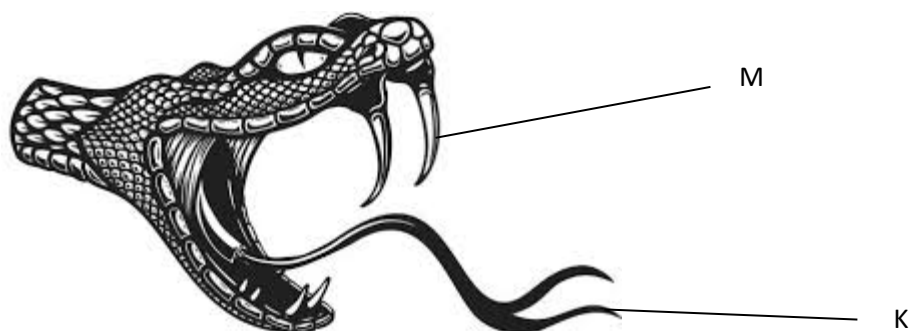
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(c) Which fungus is used to make antibiotic drugs?

.....

.....

50. The diagram below shows the head of a group of snakes. Use it to answer questions that follow.



(a) Name the part marked K.

.....

(b) State the importance of part marked M to a snake.

.....

(c) Which group of snakes have the above nature of the head?

.....

(d) Give a reason for tying a **torniquet** between the bitten part and a heart to a person who has been bitten by the above group of snakes.

.....

51.a) State the importance of each of the following items when giving first aid to a casualty.

(i) Iodine solution.

.....

(ii) Razorblade.

.....

(b) Give any **two** qualities of a good first aider.

.....

.....

52. a) Mention **two** diseases which can be spread by a cockroach.

.....

.....

(b) Give **two** ways of controlling diseases spread by cockroaches.

.....

.....

53. a) Write down any **two** examples of anti social behaviour in our communities.

.....

.....

(b) State any **two** ways of controlling anti social behaviour in the communities.

.....

.....

54. a) How can a person acquire natural immunity?

.....

(b) Write **BCG** in full.

.....

(c) Mention any **two** types of vaccines.

.....

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55. In **four** sentences, explain how you will recover salt from sand.

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END

