

# JINJA CITY

PRE - P.L.E REGISTRATION ASSESSMENT 2024

## INTEGRATED SCIENCE

TIME ALLOWED : 2HOURS:15MINUTES

Index No.

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Candidate's Name:.....

Candidate's Signature:.....

School Name:.....

District Name:.....

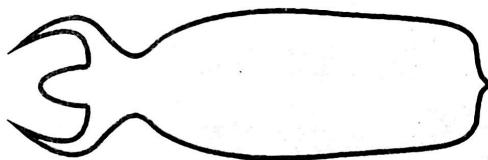
FOR EXAMINER'S  
USE ONLY

Read the following instructions carefully

1. The paper has **two** Sections A and B
2. Answer all questions. All answers to both section A and B must be written in spaces provided.
3. All answers must be written using a blue or black ball point pen or ink.
4. Unnecessary changes of work may lead to loss of marks.
5. Any handwriting that cannot easily be read may lead to loss of marks.
6. Do not fill anything in the boxes shown: "For Examiners' Use Only" and those inside the question paper

| FOR EXAMINER'S USE ONLY |       |                |
|-------------------------|-------|----------------|
| Qn. No.                 | Marks | Examiner's No. |
| 1-10                    |       |                |
| 11-20                   |       |                |
| 21-30                   |       |                |
| 31-40                   |       |                |
| 41-43                   |       |                |
| 44-46                   |       |                |
| 47-49                   |       |                |
| 50-52                   |       |                |
| 53-55                   |       |                |
| <b>TOTAL</b>            |       |                |

1. By what process do Bacteria reproduce?  
.....
2. How important are the blubber to the Cetaceans  
.....
3. Identify the type of fracture common in children.  
.....
4. State the difference between the leaf of a bean plant and a leaf of a maize plant.  
.....
5. Suggest any one condition necessary for rusting to take place.  
.....
6. Give the importance of water during germination.  
.....
7. How does regular vaccination control the animal disease?  
.....
8. Which animal product is a raw material in a tannery?  
.....
9. Why should sugar be included in the oral rehydration solution?  
.....
10. In which way do stomata on a leaf support the process of photosynthesis?  
.....
11. Identify the type of cattle shown in the figure below.



12. Give a reason to support your answer in No. 11 above.  
.....
13. State one reason why birds have streamlined bodies.  
.....
14. Mention one factor that affect the pitch of sound produced by an object.  
.....
15. List one way of caring the garden tools  
.....

16. Of what importance is the child health card to a parent?  
.....
17. Identify the element of P.H.C that promotes prevention of the six killer diseases.  
.....
18. Record any one activity of the health club in your school.  
.....
19. Mention the function of a queen excludes in a modern bee hive.  
.....
20. Given the mass of an object as 250g and volume is 10cc.  
Calculate its density.
- .....
21. In which one way can one prevent indigestion.  
.....
22. Discuss the importance of enzymes in digestion.  
.....
23. Explain how bacteria is important in the formation of humus.  
.....
24. Convert 68°F to °C  
.....
25. Why do you think gaps are left between railway metals?  
.....
26. Apart from fungi, name any one other organisms which causes disease in cattle.  
.....
27. State one importance of feathers to man.  
.....
28. How are swimming birds able to keep their body temperature warm even when in water?  
.....

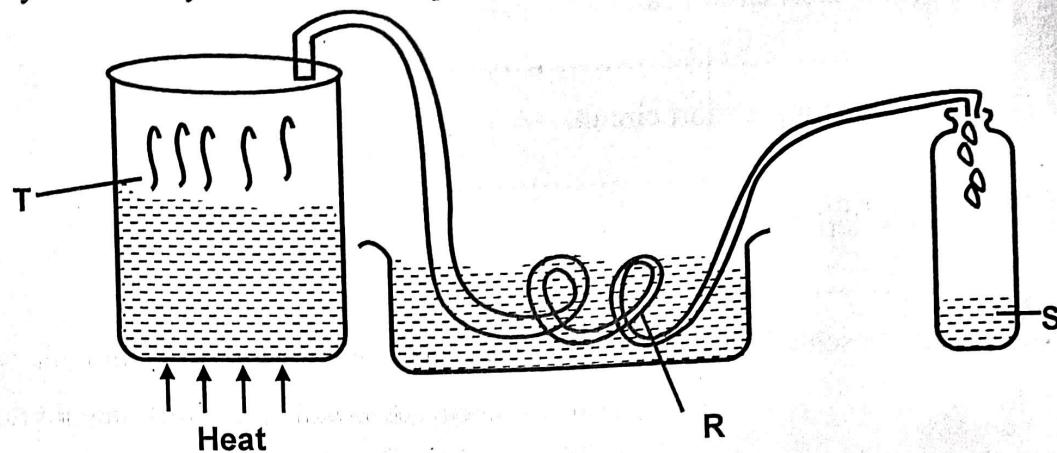
29. Name any one example of a stem tuber.  
.....
30. State a difference between a pest and a parasite.  
.....
31. Name the amphibian which lays the eggs below.  
  
.....
32. How does painting of metals prevent them from rusting?  
.....
33. Which blood vessels supplies oxygenated blood to the Heart?  
.....
34. How does the skin regulate the body temperature on cold days?  
.....
35. State the part of the thermos flask which controls heat loss by radiation.  
.....
36. What is the danger of eating while talking?  
.....
37. Why does a metal rust when left outside for a night?  
.....
38. Which biological change in plants requires oxygen to take place?  
.....
39. Give one disease that can be controlled by promoting proper sanitation.  
.....
40. Identify one material that can be made from banana fibres.  
.....

### SECTION B (60 MARKS)

41. (a) Briefly explain the semi intensive system of poultry keeping  
.....
- (b) Outline one advantage and disadvantage of the semi-intensive system of poultry keeping.
- Advantage  
(i).....
- Disadvantage  
(ii).....

(c) Why should chicks be brooded?

42. The diagram below shows the process of purifying alcohol.  
Study it carefully and answer the questions that follow.



(a) Identify the processes that take place in T and R

- (i) T.....  
(ii) R.....

(b) State a reason why part R is coiled.

(c) What scientific name is given to substance 'S'

43. (a) What name is given to the crops which have root nodules?

(b) Give any two examples of such crops.

- (i).....  
(ii).....

(c) Which useful organisms are contained in the root nodules of the above crops?

44. (a) Why is it not necessary to mulch a sweet potato garden?

b) *State one effect of running waters on the land.*

(c) Write one example of each of the following.

- (i) Perennial crop  
(ii) Annual crop

45. (a) Name two causes of short circuits in our buildings.

(i) .....

(ii) .....

(b) Write one way how a short circuit can be dangerous.

(c) Give one way of preventing a short circuit.

46. (a) Give the meaning of term weather.

(b) In which one way do school children manage cold weather?

(c) How important are the following weather instruments to a weather station?

(i) Wind sock

(ii) Hygrometer

47. (a) Identify two Amphibians without a tail.

(i) .....

(ii) .....

(b) How is a fish similar to a frog in their mode of reproduction?

(c) Name the structure that controls the depth of fish when swimming.

48. (a) Give the difference between music and sound.

(b) In which way does a person produce sound?

(c) How are sound echoes formed?

(d) Why do people working in noisy places put on ear plugs?

49. (a) What name is given to the muscles located in the heart?

(b) Describe the meaning of the term "double circulation"?

(c) List two materials that are transported by capillaries to the body cells.

(i) .....

(ii) .....

50. (a) To which state of matter does the water vapour belongs.

(b) By what process is water vapour formed?

(c) Give two example of materials that are insulators of heat.

(i) .....

(ii) .....

51. (a) Mention any two bones that form the elbow joint.

(i) .....

(ii) .....

(b) What happens to the following muscles when the lower arm is lowered

(i) Triceps

(ii) Biceps

52. Complete the table below correctly.

| Immunization diseases | Vaccine           | Mode of administration and site   |
|-----------------------|-------------------|-----------------------------------|
| (i)                   | BCG vaccine       | Injection on the upper right arm  |
| Diphtheria            | DPT vaccine       | (ii)                              |
| Poliomyelitis         | (iii)             | Through giving drops in the mouth |
| Diarrhoea             | Rotavirus vaccine | (iv)                              |

53. (a) In which two ways do adolescents benefit from abstinence from Sex.

(i) .....

(ii) .....

(b) Give any two psychological and emotional changes among the adolescents.

(i) .....

(ii) .....

54. (a) What causes Malnutrition?

(b) Why should pregnant women be fed on a balanced diet?

(c) Give a reason why a baby is said to be vulnerable.

(d) Outline the difference between a food taboo and a food belief.

55. Define kindling in Rabbits.

(b) Mention two exotic breed of Rabbits.

(i) .....

(ii) .....

(c) Give one way of caring for rabbits.

**END**

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