



THE REPUBLIC OF UGANDA

# STAR LIGHT EXAMINATION CONSULTANCY KAMPALA

PRIMARY SEVEN PRE-PLE SET I EXAMINATION 20224

## INTEGRATED SCIENCE

Time allowed: 2 hours 15 minutes

Index No.

Random No.						Personal No.		

Candidate's Name: .....

Candidate's Signature: .....

School Random Number: .....

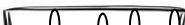
District ID: .....

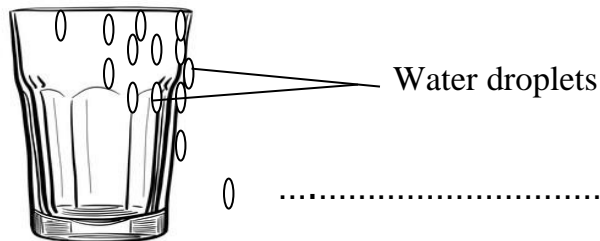
Read the following instructions carefully;

1. This paper has two sections **A** and **B**
2. Section **A** has 40 questions(40marks)
3. Section **B** has 15 questions (60marks)
4. Answer **all** questions:All answers to both Sections **A** and **B** must be written in the Spaces provided.
5. All answers must be written using a blue or black ball point pen or ink but not pencil .
6. Any handwriting that cannot easily be read may lead to loss of mark.

### FOR EXAMINERS' USE ONLY

Qn. No.	Marks	EXR's NO.
1-10		
11-20		
21-30		
31-40		
41-43		
44-46		
47-49		
50-52		
53-55		
TOTAL		

1. Name the vector that breeds in fast flowing water.  
.....
  2. How do earth worms promote plant growth?  
.....
  3. In the space provided, draw the blood component that is affected by sickle cell anemia.
- 
4. Suggest **one way** of conserving wood fuel.  
.....
  5. A stone has a mass of **40g** and a mass per unit volume of **8g/cc**. Calculate the space it occupies.
- 
6. How is a micropyle useful to a germinating bean seed?  
.....
  7. Apart from synovial fluid, name one other structure that helps to reduce friction at a joint.  
.....
  8. How are railway lines constructed in order to leave room for expansion during hot weather?  
.....
  9. Give **one** sign of calving in cattle.  
.....
  10. Name **one** non metallic conductor of electricity found in a dry cell.  
.....
  11. What force enables water molecules to stick to the glass walls as shown below;  




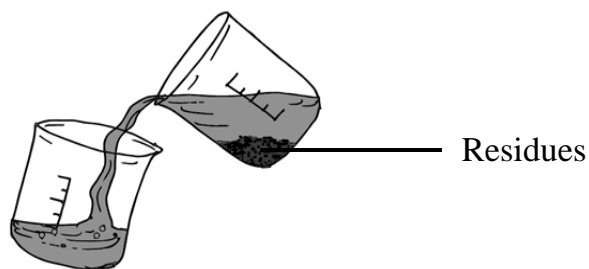
12. What element of primary health care can be promoted by cleaning and fencing water source?

13. How are the legs of a house fly adapted to the spread of cholera germs?

14. State any **one** possible cause of a short circuit in electrical installation.

15. Give a reason why a paper burnt to ash cannot be recovered.

16. What method of separating mixtures is shown below?



17. How is the egg shell of a hen adapted to gaseous exchange?

18. In which way does bush burning promote soil erosion?

19. What do we call a group of organs specialized to perform a similar function?

20. State **any one** important function of the human skin.

21. Mention **one** method of natural vegetative propagation.

22. Why are green stick fractures common in babies?

23. Name the manure obtained from animal wastes.

24. Give **one** way how friction is a nuisance force.

25. Stella saw lightening from a distance. A few second she heard the sound of thunder. What does this show?

.....

26. Why is displacement method not suitable for finding the volume of a plastic cup?

.....

27. Which microscopic organisms are useful in the making of cheese, butter and yoghurt?

.....

28. Why is recycling of waste materials important?

.....

29. To which group of musical instruments do the whistles and trumpets belong?

.....

30. Identify the blood vessel that supplies oxygenated blood to the liver.

.....

31. Compare amphibians to birds in terms of classification of vertebrates.

.....

32. Give the difference between incest and bestiality.

.....

.....

33. Name **any one** type of bones that make up the axial skeleton.

.....

34. Give the difference between a strain and sprain.

.....

.....

35. Why do the radicles of a bean seed come out first during seed germination?

.....

Use the diagram below to answer questions 36 and 37.



36. Under which class of birds do we find the bird shown above?

.....

37. How is the above bird adapted to its feeding habits?

.....

38. Compare a centipede to a millipede in terms of their protective mechanisms.

.....

.....

39. Why is culling carried on a poultry farm?

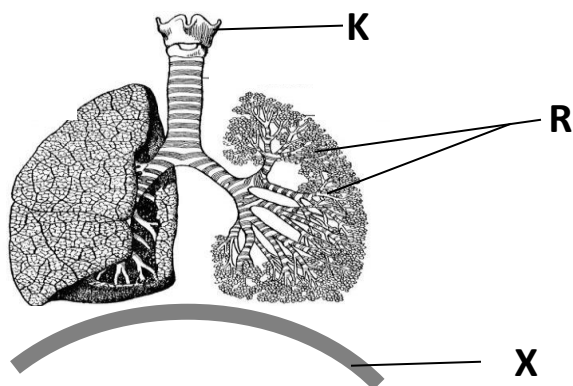
.....

40. When does the solar eclipse occur?

.....

### ***SECTION B***

41. The diagram below shows the human lungs. Use it to answer the questions that follow.



(a) Name the part marked X.

.....

(b) State the importance of the part marked K.

.....

(c) What important process takes place in part marked R?

.....

(d) Write down **one** way of keeping the above system in good working condition.

.....

42. (a) In which state of matter does sound travel fastest?

.....

(b) Give a reason why sound travel fastest in the above state of matter.

.....

(c) Give the meaning of the following terms as used in sound energy.

(i) Volume of sound.

.....

(ii) Frequency of sound.

.....

43. (a) Give the meaning.

(i) Demography

.....

(ii) Health Survey

.....

(b) Mention any **two** importance of demography.

.....

.....

44. (a) What are saprophytes?

.....

(b) Give **any two** examples of saprophytes.

.....

(c) How do saprophytes contribute to plant growth?

.....

45. (a) Write **EMF** in full.

.....

(b) What is the **EMF** of the commonly used dry cells in our lives?

.....

(c) In which units are the following measured.

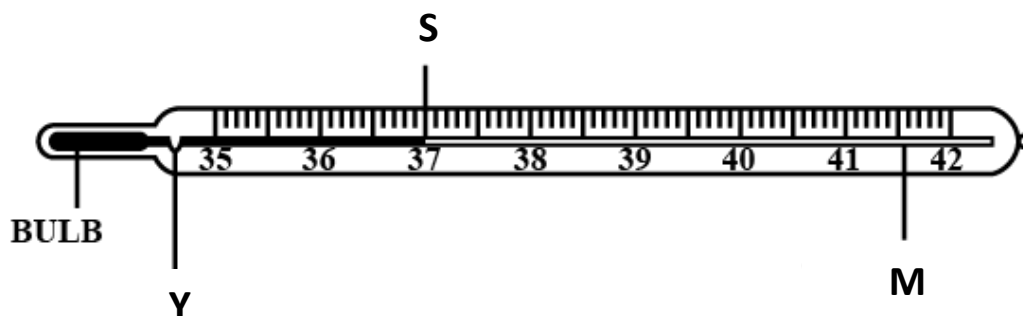
(i) Electric power:

.....

(ii) Electric resistance:

.....

46. **Below is a diagram of a clinical thermometer, use it to answer the questions that follow.**



(a) Name part marked M.

.....

(b) What is the importance of part marked **Y** on the thermometer?

.....

(c) What effect of heat on matter enables the above instrument to function?

.....

(d) Why is the above thermometer marked only from **35°C** to **42°C**?

.....

47. (a) What is interdependence?

.....

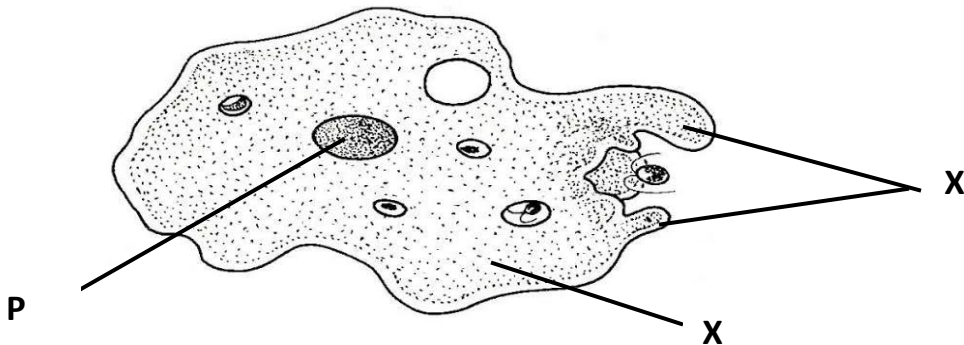
(b) Give **any two** ways plants depend on animals.

(i).....

(ii).....

(c) Why do people plant trees in their compound?

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



(a) Name the above organism.

(b) Why is the organism above called unicellular?

(c) Name the part marked **P**.

(d) What is the function of part marked **Y**?

49. Match list A with list B

**A**

Dorper  
Saddle back  
Hereford  
Toggenburg

**B**

cattle  
Goat husbandry  
Piggery  
Sheep husbandry

Dorper .....  
Saddle back .....  
Hereford .....  
Toggenburg .....

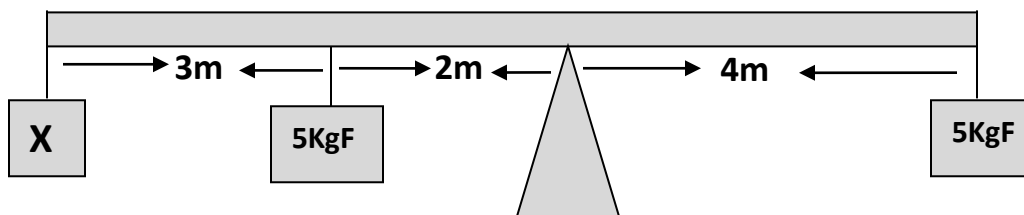


50. The diagram below shows a system of poultry keeping. Use it to answer the questions that follow.



- (a). Name the system of poultry keeping shown above.  
 .....  
 (b) Mention at least one advantage and one disadvantage of the above system of poultry keeping.  
 (i) *Advantage:* .....  
 (ii) *Disadvantage:* .....  
 (c) Name **any one** bacterial disease that can attack poultry under the above system.  
 .....  
 51. Name the blood component that carries out the following functions.  
 (a) Transportation of oxygen:-  
 .....  
 (b) Body defense:-  
 .....  
 (c) Clotting of blood:-  
 .....  
 (d) Transportation of blood:-  
 .....

52. Use the diagram below to answer the questions.

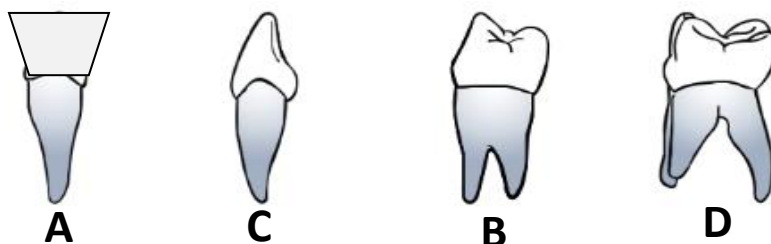


(a) State the law of moment.

.....

(b) Find the value of **X**.

53. The diagram below shows different types of teeth. Use it to answer questions that follow.



(i) **A** .....

(ii) **C** .....

(b) How many teeth of type **D** are found in the mouth of an adult person?

.....

(c) Name **any one** tooth disease/dental problem.

.....

54. (a) What is a balanced diet?

.....

(b) State **any two** importance of eating a balanced diet.

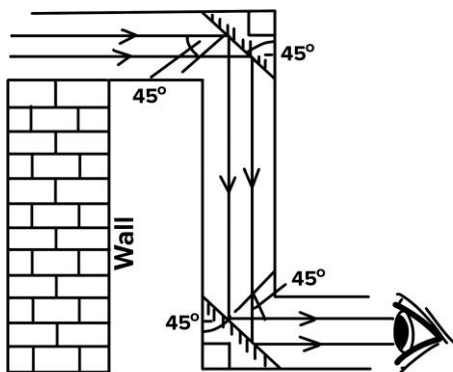
.....

.....

(c) Mention the deficiency disease that is characterized by bleeding, weakness and fatigue.

.....

55. The diagram below shows an optical instrument. Use it to answer the questions that follow.



(a) Name the above optical instrument.

.....

(b) What type of mirror is used in the above instrument?

.....

(c) On which principal does the instrument above work?

.....

(d) How are mirrors in the above instrument inclined in order to give accurate reflection of light?

.....

