



DIVINE EDUCATION CENTRE

**PRE MOCK ASSESSMENT-2023**

INTEGRATED SCIENCE (ITEM 1 of 3)

***Time allowed: 2 hours 15 minutes***

Random No.						Personal No.		

**Candidate's name:** .....

**Candidate's Signature:** .....

**District No:**

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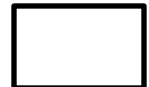
**Read the following instructions carefully:**

1. Do not write your **school** or **district name** anywhere on this paper.
2. This paper has two sections **A** and **B**. Section **A** has **40 questions** and **section B** has **15 questions**. This paper has **12 pages** printed altogether.
3. Answer **all** questions. All the working for both sections **A** and **B** must be shown in the spaces provided.
4. **All** working must be done using a **blue** or **black** ball point pen or ink. Any work done in pencil will **NOT** be marked except drawings and diagram.
5. Unnecessary **changes** in your work and handwriting that cannot be easily read may lead to loss of marks.
6. Do not fill anything in the table indicated  
**"For examiners' use only"** and the boxes inside the question paper.

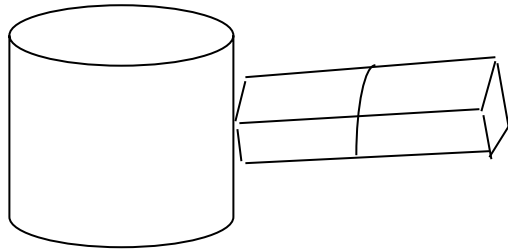
FOR EXAMINERS'		
USE ONLY		
Qn. No.	MARKS	EXR'S No.
1 – 10		
11 – 20		
21 – 30		
31 – 40		
41 – 43		
44 – 46		
47 – 49		
50 – 52		
53 – 55		
TOTAL		

## SECTION A:40MARKS

1. Name one form of energy that results from friction.  
.....
2. Mention one enzyme that acts on food in the ileum.  
.....
3. Identify one waste product of respiration.  
.....
4. How are gill rakers adapted to their function?  
.....  
.....
5. Why would one prefer using a metallic mug to a plastic one when taking tea?  
.....  
.....
6. State one advantage of natural incubation over artificial incubation.  
.....  
.....
7. How is the function of foliage leaves different from that of fleshy leaves in an onion?  
.....  
.....
8. What happens to the density of an object when its volume increases?  
.....  
.....
9. Why are people discouraged from keeping potted plants inside the house at night?  
.....  
.....
10. Name the water borne-disease that affects the skeletal system.  
.....  
.....



11. Give one example of an involuntary muscle.  
 .....
12. Identify the property of magnetism illustrated below.

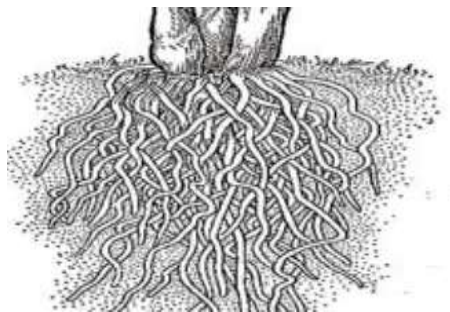


- .....
13. **In the space below draw the eggs of a toad.**



14. Name one organism that reproduces by fragmentation.  
 .....
15. Why is wood intended for charcoal production burnt under limited supply of oxygen?  
 .....  
 .....
16. What type of agro chemicals is used to kill weeds?  
 .....

**The diagram below shows a kind of root system. Use it to answer questions 17 and 18.**

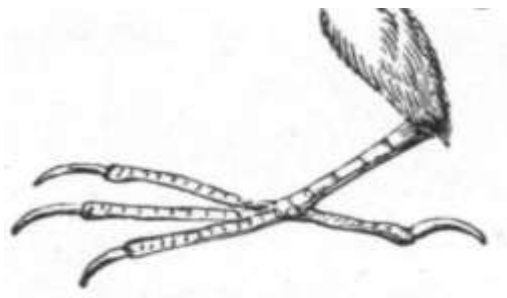


17. What kind of germination results into the above kind root system?  
 .....

18. Mention one example of a plant with the above kind of root system.  
 .....  
 .....
19. Mention one factor that affects the efficiency of a simple wet cell.  
 .....  
 .....
20. Why are we discouraged from using cold water when administering first aid to a person with fever?  
 .....  
 .....



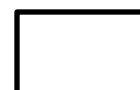
21. Mention the eye disease that is not spread by a vector.  
 .....
22. How are plants different from fungi in terms of feeding?  
 .....  
 .....
- 23. Give one example of a bird with a foot below.**



- .....
24. How can the government prevent the extinction of endangered species of animals?  
 .....  
 .....
25. Why is sand soil considered the best for construction of houses?  
 .....  
 .....
26. Apart from merino sheep, name any other breed of sheep reared for wool production.  
 .....

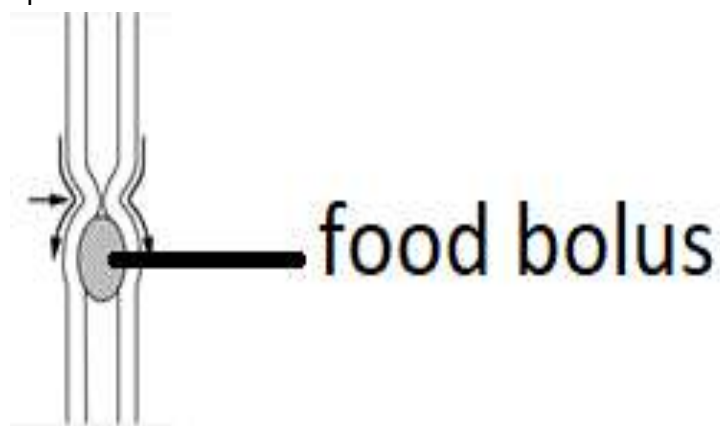
27. Give one cause of deformity of bones in human beings.  
.....  
.....
28. Mention one factor that can lead to seed dormancy.  
.....
29. How does gravity affect moving bodies in space?  
.....  
.....
30. Mention one component of bile.  
.....
31. State one similarity between an arachnid and an insect.  
.....  
.....
32. Why are red blood cells important in respiration?  
.....  
.....
33. Arrange the following processes according to their order of occurrence.  
Ovulation, copulation, implantation, fertilization.  
.....  
.....
34. Besides the shape, give any other structural difference between a red blood cell and a white blood cell.  
.....  
.....
35. Nakato touched the kettle and found out that it was hot. What sense organ enabled her to detect how hot the kettle was?  
.....  
.....
36. How do trees help to conserve air?  
.....  
.....
37. Weathering is one of the process by which soil is formed, mention one factor increases weathering.  
.....

38. Why is it not advisable to cover the hole of a ventilated improved pit latrine?  
 .....  
 .....
39. Which gas is destructive to iron products?  
 .....
40. What method can be applied by a farmer to get rid of internal parasites in livestock?  
 .....  
 .....



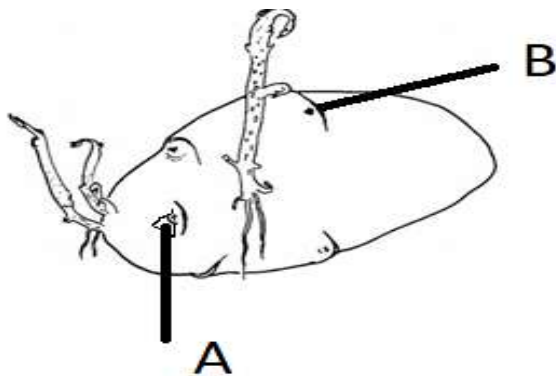
### SECTION B

41. a) Give one importance of saliva in the process of digestion.  
 .....
- b) Where in the digestive system does absorption of mineral salts occur?  
 .....
- c) Mention the condition under which pepsin works.  
 .....
- d) Identify the process illustrated below.



.....

42. The diagram below shows an underground stem. Use it to answer questions that follow.



a) Name part labeled B

.....

b) To which group of underground stems does the above belong?

.....

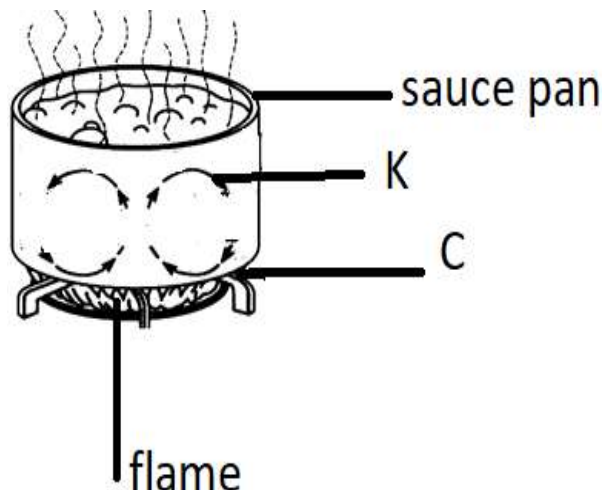
c) What food value is obtained from the above stem?

.....

d) Name one disease attacks the above plant.

.....

43. Below is an experiment carried out by primary five pupils about boiling water.



a) What scientific name is given to the movement of water molecules marked K?

.....

.....

b) How does heat reach part c?

.....  
.....

c) Name one physical process that takes place when water molecules are moving like at K

.....

d) What type of energy is possessed by boiling water?

.....



44. a) How is a predator different from a parasite?

.....  
.....  
.....

b) Give one example of an organism that feeds parasitically.

.....  
.....

c) In one sentence, show the meaning of each of the following words.

(i) Host.....

.....

(ii) Prey.....

.....

45. Study the electric cell below and answer questions that follow.



a) Name part labeled A.

.....



- b) From which mineral is part C made ?  
.....
- c) Mention two component of B  
(i).....  
(ii).....

46. a) Mention one emotional change in adolescents.

.....  
.....

b) State one sign that shows danger during pregnancy

.....  
.....

c) Identify two basic requirements of a pregnant.

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



47. a) What is drug prescription?

.....  
.....

b) Give one reason why a patient should take prescribed drugs.

.....  
.....

c) Mention two any forms of drug misuse.

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

48. a) Apart from sweating, give any other way the skin regulates body temperature.

.....  
.....

b) Mention one excretory product removed from the body by skin.

.....

c) Name the pigment in the skin that protects humans from dangers ultra violet rays.

.....

d) Why does one urinate frequently on a cold weather day?

.....  
.....

49. a) What is meant by the term "Piggery"

.....  
.....

b) Name one exotic breed of pigs kept in Uganda.

.....

c) Identify one pig disease caused by the following germs.

i) Bacterium.....

.....

ii) Virus.....

.....



50. Mention one example of each of the following crops.

a) perennials

.....  
.....

b) Biennials

.....  
.....

c) Annuals

.....  
.....

d) Cereals

.....  
.....

**51. Below is a list of human activities carried out by man in the environment.**

- Mining
- Mono-cropping
- Release of smoke from factories
- Planting trees.
- Draining swamps
- Treating industrial gases

(a) Which activity is likely to cause soil infertility?

.....

(b) Identify the activity from the above list that causes global warming.....

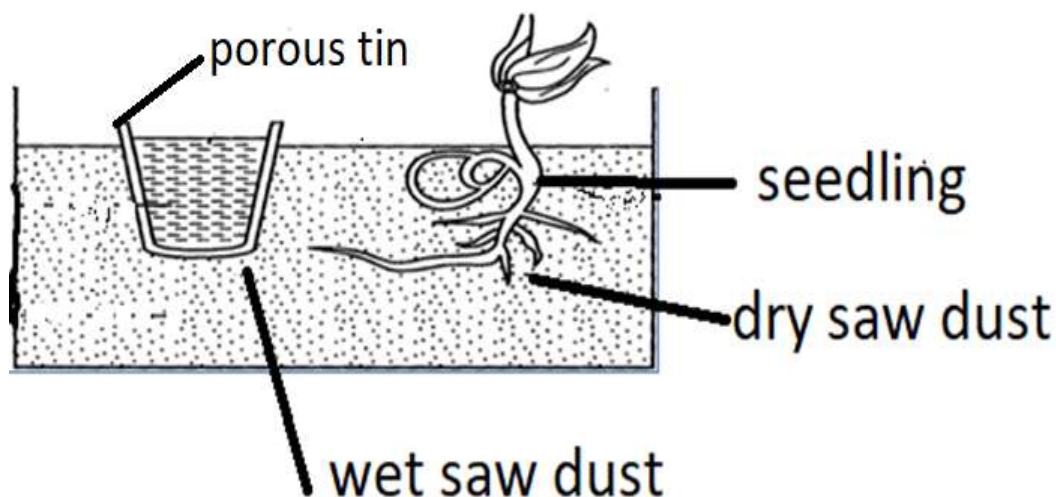
.....

(c) From the above list, identify two conservation practices.

(i).....

(ii).....

**52. Below is an illustration of a plant response to stimulus**



a) Identify the plant response shown above.

.....

b) Which system of the plant is positively active towards stimulus?

.....

c) Identify the stimulus in the above diagram.

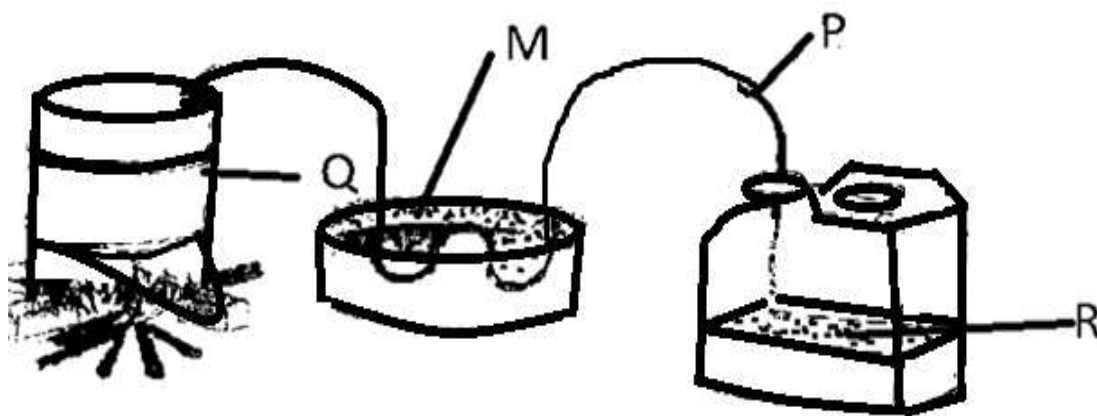
.....

d) Besides the above, name any other plant response to stimulus.

.....



53. The diagram below shows one of the methods of preparing alcohol. Study it and answer questions 53.



a) Name the method of production of alcohol shown above.

.....

b) Identify the physical process taking place at M.

.....

C) Why is the part of **P** which is in water coiled at **M**?

.....

c) Why is Q air light?

.....

.....

54. Match the disease in list A with the signs and symptoms in list B

**A**

- i) Poliomyelitis
- ii) Measles
- iii) Tetanus
- iv) Diphtheria

**B**

- Swollen neck
- Stiffness of Tissues
- Paralyzed Tissue
- wounds in the mouth
- Liver damage

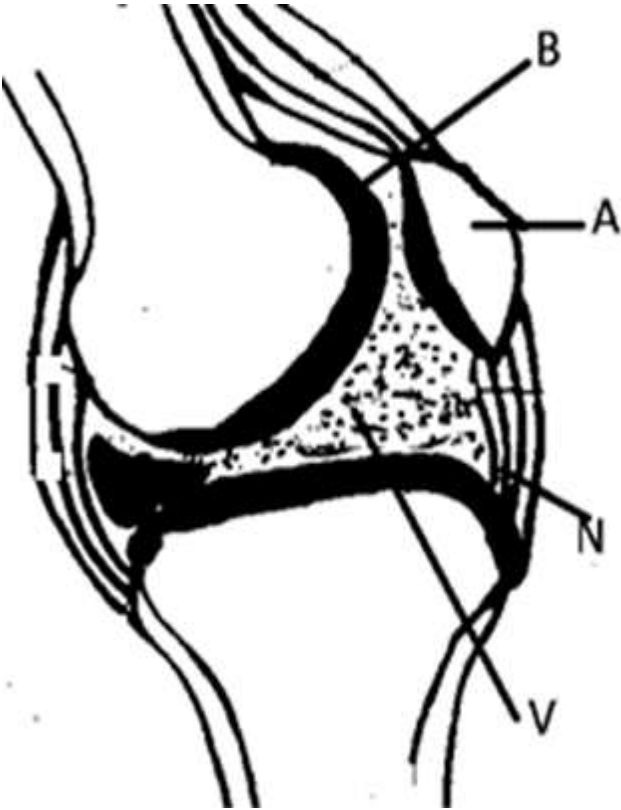
Poliomyelitis.....

Measles.....

Tetanus.....

Diphtheria.....

55. The diagram below shows a movable joint. Use it answer to answer questions



- (a) Name structures labeled N and M
  - (i) N.....
  - (ii) A.....
- (b) How is the fluid labeled V useful in a joint?  
.....  
.....
- (c) Mention one disease that affects muscles and bones.  
.....  
.....

