SECTION A: Attempt all questions. (50 marks)

1. State any one form of:
   a. energy
   b. renewable energy source

2. Complete these sentences:
   a. The area of a magnet where the magnetic force is strongest is called the magnetic ________
   b. An instrument which uses magnets to show direction is known as ________

3. Draw a line from each circuit symbol and link it to the electrical component it represents.

<table>
<thead>
<tr>
<th>Circuit symbol</th>
<th>Electrical component</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>resistor</td>
</tr>
<tr>
<td></td>
<td>dry cell</td>
</tr>
<tr>
<td></td>
<td>switch</td>
</tr>
</tbody>
</table>

4. a. Use the term **refraction of light** or **reflection of light** to answer the following question.

   The phenomenon by which the incident light falling on a surface and it is then sent back into the same medium is known as ________
b. The diagram below, not drawn to scale shows a reflected ray of light on a plane mirror M.

![Diagram](image.png)

- Use this diagram to draw the normal line to the mirror passing through the point of incidence.
- Find the value of the angle of incidence.
- Draw an incident ray on the same diagram.

5. Name any:
   a. agricultural tool
   b. danger of the misuse of agricultural tools.

6. a. Name the carpentry tools in (a) and (b) below:

   ![Carpentry Tool](image.png)

   - What is the “spirit level tool” used for?

7. Write any two masonry tools.
   i. _____________________________
   ii. _____________________________

8. Mention any two materials used to make toys.
   i. _____________________________
   ii. _____________________________

9. a. The person who repairs machines is called:

   _____________________________

   b. The person who uses a tool known as evil is called:

   _____________________________

10. Use True or False to answer the following:
   a. A screw driver isn’t an example of a simple machine

       _____________________________

   b. For a lever to be first class lever, the fulcrum needs to be between the load and the effort.

       _____________________________

   c. A simple machine is a tool that makes the work easier.

       _____________________________
11. Calculate the relative density of each substance and complete the table given below.

<table>
<thead>
<tr>
<th>Material</th>
<th>Density kg/m³</th>
<th>Relative density</th>
</tr>
</thead>
<tbody>
<tr>
<td>water</td>
<td>1000</td>
<td></td>
</tr>
<tr>
<td>gold</td>
<td>19320</td>
<td></td>
</tr>
</tbody>
</table>

12. Name the different phenomena of water changes shown in the diagram below.

1. 
2. 
3. 

13. The physical parts of a computer are called

14. A small picture that represents a folder, program or other things is called

15. If you ________________ a document from the journal, it will be completely lost.

16. The activity you are working on is automatically saved and can be accessed from

17. Name three ways in which you can start using the write activity
   i. 
   ii. 
   iii. 

18. What do the following terms refer to as used in scratch?
   i. sprite
   ii. animation

19. List any two popular programming languages for kids.
   i. 
   ii. 

20. What is the use of paint activity?
21. List four functions of scratch sound editor.
   i. ____________________________________________
   ii. ___________________________________________
   iii. __________________________________________
   iv. ___________________________________________

22. What is a search engine?
   ____________________________________________

23. Explain the uses of the following commands.
   i. Back ________________________________________
   ii. Left ________________________________________

SECTION B: ANSWER ALL QUESTIONS (50 MARKS)

24. a. The characteristics for Movement is also called:
   ____________________________________________
   
   b. Give four main reasons why animals move.
   i. ____________________________________________
   ii. ___________________________________________
   iii. __________________________________________
   iv. ___________________________________________

25. Using an arrow (→), match each animal in A with the correct group to which it belongs in B.

   A (animal)   B (group)
   Chameleon    mammal
   Toad         reptile
   Ostrich      bird
   Bat          amphibian

26. List down two similarities between plants and animals.
   i. ___________________________________________
   ii. ___________________________________________

27. a. Look at the crossword puzzle below and find at least four parts of a flowering plant and list them.

   SOVULE
   OHRSQP
   VCOPRE
   ATOODT
   RPTATA
   YSBZCL

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i. _____________________________

ii. _____________________________

iii. _____________________________

b. What would happen to plants if there were no insects?

28. A farmer cuts down a forest to grow potatoes.
   a. Do you agree with his action?

   ____________________________________________________________

   b. If yes give reasons to support your answer

   If No, support your answer

29. Match using an arrow, the items in Column A against those in Column B.

   **Column A**
   - Sepal
   - Petal
   - Stamen
   - Carpel

   **Column B**
   - female reproductive part.
   - protects the inner part of the flower.
   - attracts insects
   - male reproductive parts.
   - receive pollen grains.

30. Complete the table below.

<table>
<thead>
<tr>
<th>Parts of the circulatory system</th>
<th>functions</th>
</tr>
</thead>
<tbody>
<tr>
<td>Veins</td>
<td></td>
</tr>
<tr>
<td>Herat</td>
<td></td>
</tr>
<tr>
<td>Arteries</td>
<td></td>
</tr>
</tbody>
</table>

31. a. Name the two types of pollination in flowering plants.
   i. _____________________________
   ii. _____________________________

   b. Write down any two agents of pollination.
   i. _____________________________
   ii. _____________________________

32. a. Give two types of germination.
   i. _____________________________
   ii. _____________________________

   b. Apart from moisture, state any other condition necessary for seed germination.
33. a. Name two natural resources in the environment that enable green plants to make their food.
   i. __________________________
   ii. __________________________

   b. What is the name of the process in (a) above?
   __________________________

   c. What gas is given off during this process?
   __________________________

34. a. Which type of blood vessels return blood to the heart?
   __________________________

   b. What is the function of valves in blood vessels during blood circulation?
   __________________________

   c. What type of blood is carried by most blood vessels with valves?
   __________________________

   d. Give any one waste material carried by blood.
   __________________________

35. a. Which organ removes urine from the body?
   __________________________

   b. To which body system does the organ that removes urine from the body belong?
   __________________________

   c. Where is urine collected before it is removed from the body?
   __________________________

36. a. Name the germ that causes HIV/AIDS.
   __________________________

   b. Apart from having sex with an infected person, write down any other way in which one can get the germ that causes HIV/AIDS.
   __________________________

   c. State the name of the insect that transmits malaria parasite from one person to another.
   __________________________

37. Which part of the body is affected by each of the following diseases?
   a. Bilharzia __________________________
   b. Scabies __________________________
   c. Trachoma __________________________
   d. AIDS __________________________
31. The diagram below shows a human eye.

(a). Name the parts labelled P, Q, R and S.

P
Q
R
S

(b). What is the function (use) of part Q?

(c). Which part of the eye is sensitive to light rays and so send messages to the brain?