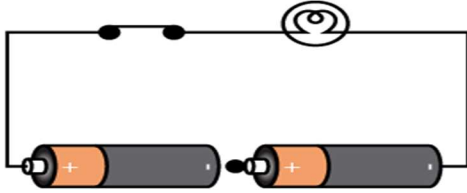


- Q.33. Zubeda made an electric circuit using a cell holder shown in the figure, a switch and a bulb. When she put the switch in the 'ON' position, the bulb did not glow. Help Zubeda in identifying the possible defects in the circuit.

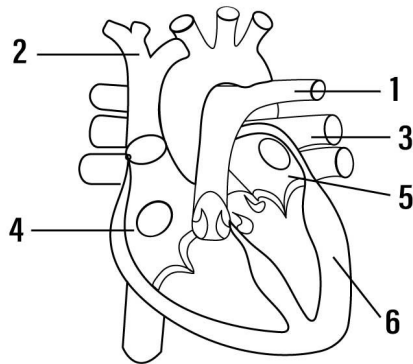


- Q.34. The flask shaped organ X at the centre of flower is surrounded by a number of little stalks Y having swollen tops which lie just inside the ring of petals.
- Name the organ X
 - Which part of organ X contains gametes?
 - Name the organ Y.
 - What does the swollen top of organ Y contain?
 - Out of X and Y, which one is the female part of flower?
- Q.35. With the help of a diagram show the "Dispersion of White Light by a Glass Prism".

OR

What will happen if there are no platelets in the blood?

- Q.36. Given below is a diagram of human heart showing its internal structure.



- Label the parts marked 1 to 6.
- Which type of blood is carried by the blood vessel marked 2?
- Name the main artery which takes the blood from heart to different parts of the body?
- Which chamber of the heart receives deoxygenated blood from the body?
- The opening of right atrium into right ventricle is guarded by _____.
(tricuspid valve / bicuspid valve)



MAITRI VIDYA NIKETAN EMSSS, RISALI
ANNUAL EXAMINATION 2022-2023
CLASS-VII SUBJECT- GENERAL SCIENCE

TIME: 3 Hrs.

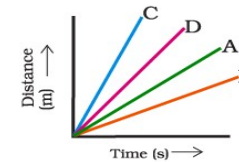
MM: 80

GENERAL INSTRUCTIONS:

- The question paper comprises three sections – A, B and C. Attempt all the sections.
- All questions are compulsory.
- Internal choice is given in each section.
- All questions in Section-A are one-mark questions comprising MCQ, VSA type and assertion-reason type questions. They are to be answered in one word or in one sentence.
- All questions in Section-B are three-marks, short-answer type questions. These are to be answered in about 50 words each.
- All questions in Section-C are five marks, long-answer type questions. These are to be answered in about 70 words each.
- This question paper consists of a total of 36 questions.

SECTION – A

- Q.1. Which one of the following is not responsible for water shortage?
- Rapid growth of industries
 - Heavy rainfall
 - Increasing population
 - Mismanagement of water resources
- Q.2. The distance-time graph for objects A, B, C and D is shown in the Figure. Which object has the maximum speed?



- A
 - B
 - C
 - D
- Q.3. Which of the following processes will be affected due to water scarcity on plants?
- Evaporation
 - Photosynthesis
 - Respiration
 - Transpiration
- A and B
 - B and C
 - A and C
 - B and D
- Q.4. Prithvi has connected the two terminals of a cell directly with a wire. What happens then?
- The chemical gets used up very fast
 - No current will flow in the wire.
 - More electrical energy will stored in the cell.
 - Nothing will happen

- Q.5. Bryophyllum can reproduce by its
(a) Stem (b) Leaves (c) Roots (d) Flower
- Q.6. The most suitable material for making the core of electromagnet is
(a) Steel (b) Brass (c) Iron (d) Aluminium
- Q.7. A bulb glows when:
(a) Current flows through its filament (b) It is heated
(c) Battery is replaced (d) Shown to light
- Q.8. The image of a real object formed by a convex mirror is always:
(a) Virtual (b) Erect and diminished
(c) Lie between the pole and the principal focus (d) All of the above.
- Q.9. The filtering unit in the human excretory system is called:
(a) Nephron (b) Neuron (c) Ureter (d) Aorta
- Q.10. Name the phenomenon responsible for the following effect:
When we sit in front of a plane mirror and write with our right hand; it appears in the mirror that we are writing with the left hand.
(a) Virtual image (b) Real image
(c) Later at inversion (d) Shadow
- Q.11. Which type of lens forms always a virtual image?
- Q.12. Name the process by which the blood of a person having kidney failure is cleaned by using kidney machine.
- Q.13. Name any two effects of electric current.
- Q.14. The distance-time graph of an object is a straight line perpendicular to the distance-axis. What does this graph tell us about the motion of the object?
- Q.15. Haemoglobin is present in _____ cells.
- Q.16. Which type of mirror can form a real image?
- Q.17. The water bearing layer of the earth is _____.
- Q.18. We can obtain a real, enlarged and inverted image by a concave mirror.
(True / False)

Direction: For question numbers 19 and 20 two statements are given – one labelled Assertion (A) and other labelled (R). Select the answer to these questions from the codes a, b, c and d as given below.

- a. A and R both are correct statement and R is the correct explanation of the A.**
- b. A and R both are correct statement but R is not the correct explanation of the A.**
- c. A is correct statement but R is wrong.**
- d. A is wrong statement but R is correct statement.**

- Q.19. Assertion – Convex lens can form real and inverted images.
Reason – Convex lens is used as magnifying glass.
- Q.20. Assertion – The motion of the pendulum of a wall clock is an example of oscillatory motion.
Reason – Oscillatory motion is not a periodic motion.

SECTION – B

- Q.21. What is an electromagnet? Explain its uses. (Any two)
- Q.22. Write the differences between an artery and a vein.
- Q.23. What is a virtual image? Give one situation where a virtual image is formed.
- Q.24. What are stomata? Give two functions of stomata.
- Q.25. Show the shape of the distance-time graph for the motion in the following cases:
(i) A car moving with a constant speed.
(ii) A car parked on a side road.
- Q.26. Give two uses each of concave and a convex lens.

OR

Why do ventricles have thicker walls than auricles?

- Q.27. Classify the following as motion along a straight line, circular or oscillatory motion :
(i) Motion of your hands while running.
(ii) Motion of a horse pulling a cart on a straight road.
(iii) Motion of a child in a merry-go-round. •
(iv) Motion of a child on a see-saw.
(v) Motion of the hammer of an electric bell.
(vi) Motion of a train on a straight bridge.
- Q.28. The distance between two stations is 240 km. A train takes 4 hours to cover this distance. Calculate the speed of the train.
- Q.29. Distinguish between sexual and asexual reproduction.
- Q.30. Draw the symbols to represent the following components of electrical circuits: **Connecting wires, Switch in the 'OFF' position, Bulb, Cell, Switch in the 'ON' position and Battery.**

SECTION - C

- Q.31. Draw a well labelled diagram of “The Vertical Section of a Flower”.
- Q.32. State the characteristics of the image formed by a plane mirror.