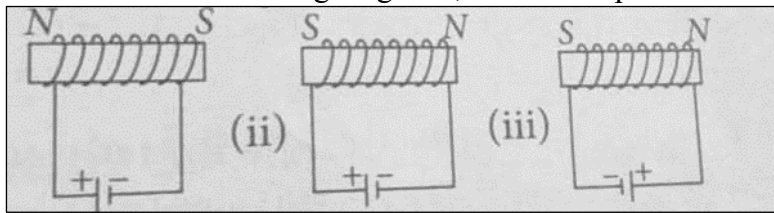


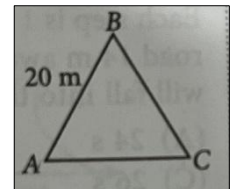
Q11. In which of the following diagrams, the correct poles of the electromagnet are indicated? 1



- a) (ii) only
 b) (ii) and (iii)
 c) (i) only
 d) All of the above

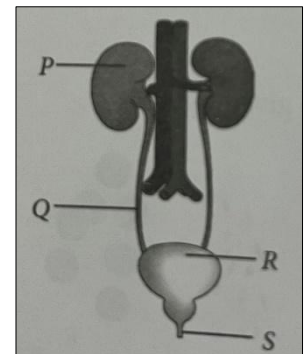
Q12. A boy moves along an equilateral triangular track of side 20 m as shown in the figure. He starts from point A and reaches point C through point B. The distance and displacement of the boy is ____.

- a) 40 m, 40 m
 b) 20 m, 20 m
 c) 20m, 40 m
 d) 40m, 20 m



Q13. Refer to the given figure. Select the option that correctly identifies P, Q, R and S. 1

- | | P | Q | R | S |
|----|---------|---------|-----------------|-----------------|
| a) | Kidney | Urethra | Ureter | Urinary Bladder |
| b) | Kidney | Ureter | Urinary Bladder | Urethra |
| c) | Kidney | Urethra | Urinary Bladder | Ureter |
| d) | Urethra | Ureter | Kidney | Urinary Bladder |



Q14. Select the incorrect statement(s). 1

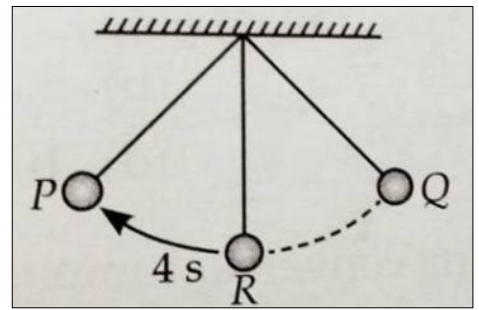
- (i) Sponges do not possess any circulatory system.
 (ii) Bony fish and snakes excrete uric acid as excretory products.
 (iii) Sweat contains water and salts.
 (iv) Sweating helps in maintaining the body temperature.
 (v) Urea is filtered in the body by villi.

- a) Only (iii)
 b) Only (ii)
 c) (ii) and (iv)
 d) (ii) and (v)

Q15. A marble tile feels colder than a wooden tile on a winter morning, because the marble tile because it ____.

- a) is a better conductor of heat than the wooden tile.
 b) is polished while wooden tile is not polished.
 c) reflects more heat than wooden tile.
 d) is a poor conductor of heat than the wooden tile.

- Q16. If the time taken by the bob of a pendulum to move from point R to P is 4s, then the time taken by it to complete its one oscillation is ____.
- a) 8 s
b) 12 s
c) 16 s
d) 4 s



1

SECTION B

Each question consists of two statements, namely Assertion (A) and Reason (R).

For selecting the correct answer use the following code: (Please write the correct option in the box. Do not write the full sentence)

- (a) Both Assertion (A) and Reason (R) are the true and Reason (R) is a correct explanation of Assertion (A).
(b) Both Assertion (A) and Reason (R) are the true but Reason (R) is not a correct explanation of Assertion (A).
(c) Assertion (A) is true and Reason (R) is false.
(d) Assertion (A) is false and Reason (R) is true.
(e) Both Assertion (A) and Reason (R) are incorrect.

- Q17. **Assertion:** There are two types of blood vessels: arteries and veins are present in the body.
Reason : Arteries carry blood to the heart from all parts of the body.

1

- Q18. **Assertion :** A reaction between water and quick lime is a physical change.
Reason : On adding water to quick lime, heat is evolved with the formation of a new compound called calcium hydroxide.

1

- Q19. **Assertion:** Phenolphthalein remains colourless in acidic solutions.
Reason: Phenolphthalein is a pH indicator that turns pink in basic solutions.

1

- Q20. **Assertion :** In solids, heat is transferred mainly by conduction.
Reason : In conduction, heat transfer occurs due to the movement of particles from the hot region to the cold region.

1