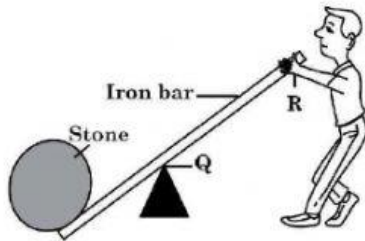


39. Which of the following statements about magnets is FALSE?

- (A) Every magnet has two poles.
- (B) A south pole attracts a north pole.
- (C) The magnetic force is weakest at the poles.

Questions 40-41 refer to the diagram below, which shows a boy using a lever to move a heavy stone.



40. What should the boy do to lift the stone off the ground?

- (A) Lift the iron bar at R.
- (B) Push down the iron bar at R.
- (C) Remove the wedge-shaped object at Q.

41. The point Q is called the

- (A) effort
- (B) anchor
- (C) fulcrum

42. Which of the following tools can BEST be used to place a 20-litre drum on a truck?

- (A) A spade
- (B) A crowbar
- (C) An inclined plane

43. Which of the following is the unit of force?

- (A) Joule
- (B) Newton
- (C) Degree



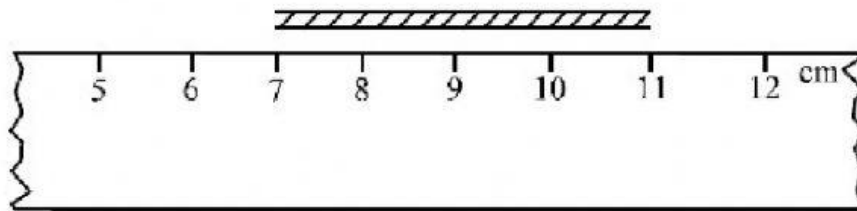
44. A covered pot half-filled with water, was placed over a fire. After a few minutes, the cover was removed and droplets of water were seen on the inside of the cover. The BEST explanation for the droplets is that

(A) water bubbled onto the cover
(B) steam condensed on the cover
(C) the water rose to the level of the cover

45. Which of the following sequences represents a good safety practice when using an electric kettle?

- (A) Fill kettle → dry hands → plug in kettle
(B) Plug in kettle → fill kettle → dry hands
(C) Dry hands → plug in kettle → fill kettle

Question 46 refers to the following diagram which shows a ruler and a piece of string.

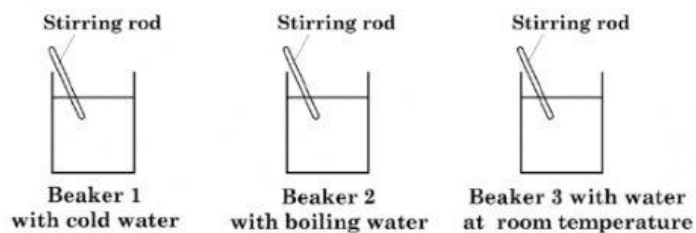


46. The length of the string, in cm, is

- (A) 4
(B) 5
(C) 7



Questions 47-49 refer to the diagrams below.

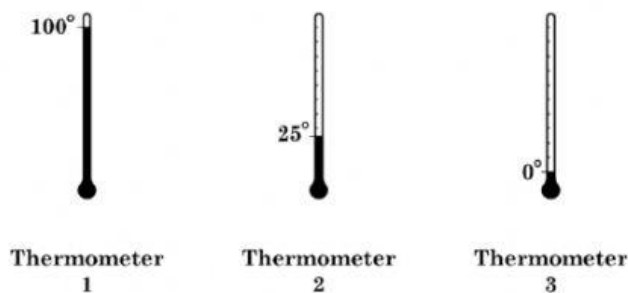


47. Five grams of sugar were added to each beaker and stirred at the same rate.

In which beaker will the sugar dissolve the fastest?

- (A) Beaker 1
- (B) Beaker 2
- (C) Beaker 3

48. A thermometer was later placed in each of the beakers; the temperature readings are shown below.



Which of the thermometers above would indicate the temperature in Beaker 2?

- (A) 1
- (B) 2
- (C) 3

49. The mass of sugar which was added to the beakers was MOST likely measured using a

- (A) ruler
- (B) balance
- (C) thermometer



50. Equal amounts of sand, sugar and salt are added to three separate containers with water at 100°C. Each mixture is stirred for two minutes then allowed to stand.

Which of the following predictions is accurate?

- (A) All three substances will dissolve at the same rate.
- (B) The sugar and salt will dissolve but the sand will not.
- (C) The sugar and sand will both dissolve but the salt will not.

