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$$\begin{aligned} \Rightarrow 4Y^2 - 12Y + 3Y - 9 &= 0 \\ \Rightarrow (4Y^2 - 12Y) + (3Y - 9) &= 0 \\ \Rightarrow 4Y(Y - 3) + 3(Y - 3) &= 0 \\ \Rightarrow (Y - 3)(4Y + 3) &= 0 \end{aligned}$$

$$Y = \frac{-3}{4}, 3$$

Hence, no relationship can be established between x and y.

20. Ans. E.

$$\begin{aligned} 11X^2 + 18X + 7 &= 0 \\ \Rightarrow 11X^2 + 11X + 7X + 7 &= 0 \\ \Rightarrow 11X(X + 1) + 7(X + 1) &= 0 \\ \Rightarrow (11X + 7)(X + 1) &= 0 \end{aligned}$$

$$X = -1, \frac{-7}{11}$$

$$\begin{aligned} 3Y^2 + 2Y - 1 &= 0 \\ \Rightarrow 3Y^2 + 3Y - Y - 1 &= 0 \\ \Rightarrow 3Y(Y + 1) - (Y + 1) &= 0 \\ \Rightarrow (Y + 1)(3Y - 1) &= 0 \end{aligned}$$

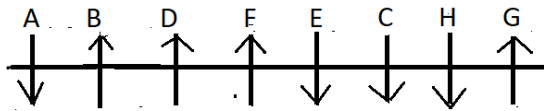
$$= -1, \frac{1}{3}$$

Hence, no relationship can be established between x and y.

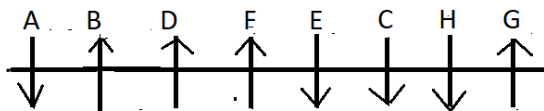
21. Ans. D.

Three such pairs are there: OT, JO, IO and NO.

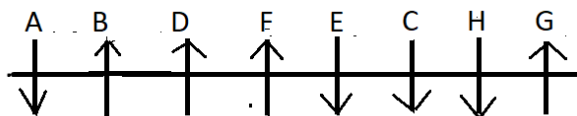
22. Ans. B.



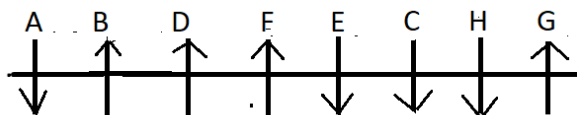
23. Ans. B.



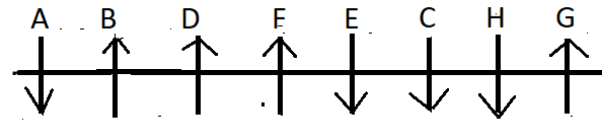
24. Ans. C.



25. Ans. D.



26. Ans. C.



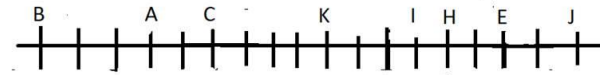
27. Ans. B.

1st, 2nd, 7th and 8th letters of the word "RADIOACTIVE" are R, A, C and T.

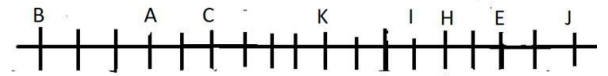
Meaningful word: CART

Hence, R is the third letter of the word.

28. Ans. D.



29. Ans. A.



30. Ans. C.

