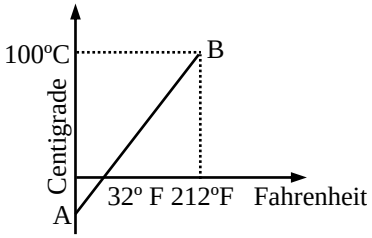
DPP – 1

Q 1. The graph AB shown in figure is a plot of temperature of a body in degree Celsius and degree Fahrenheit. Then –



(A) Slope of line AB is 9/5 (B) Slope of line AB is 5/9
(C) Slope of line AB is 1/9 (D) Slope of line AB is 3/9

Q 2. Oxygen boils at – 183°C. This temperature on Fahrenheit scale is –
(A) – 215° (B) – 261°
(C) – 297° (D) – 329°

Q 3. The temperature of a body on Kelvin scale is found to be x K. When it is measured by Fahrenheit thermometer, it is found to be x°F, then the value of x is-
(A) 40 (B) 313
(C) 574.25 (D) 301.25

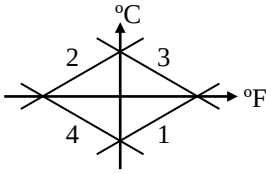
Q 4. Ice point and steam point on a particular scale reads 10º and 80º respectively. The temperature on ºF scale when temperature on new scale is 45º is -
(A) 50º F (B) 112ºF
(C) 122ºF (D) 138ºF

Q 5. The steam point and ice point of a mercury thermometer are marked as 80º and 10º. At what temperature on centigrade scale the reading of this thermometer will be 59º ?
(A) 70º C (B) 60º C
(C) 80º C (D) None of these

Q 6. A difference of temperature of 25ºC is equivalent to a difference of :-
(A) 45ºF (B) 72ºF
(C) 32ºF (D) 25ºF

Q 7. At what temperature, the Fahrenheit and Celsius scales will give numerically equal (but opposite in sign) values : -
(A) – 40ºF and 40ºC (B) 11.43º F and – 11.43ºC
(C)–11.43ºF and + 11.43ºC (D) + 40ºF and – 40ºC

Q 8. Which of the curves in figure represents the relation between Celsius and Fahrenheit temperature-



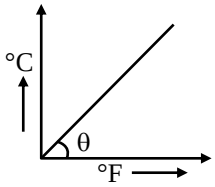
(A) 1 (B) 2 (C) 3 (D) 4

Q 9. Two thermometers X and Y have ice point marked at 15º and 25º and steam points marked as 75º and 125º respectively. When thermometer X measures the temperature of a bath as 60º on it, what would thermometer Y read when it is used to measure the temperature of the same bath ?

(A) 60º (B) 75º

(C) 100º (D) 90º

Q 10. The graph shown in the figure is a plot of the temperature of a body in °C and °F. The value of sin Θ =



(a) $\frac{5}{\sqrt{106}}$ $(b)\ \frac{10}{\sqrt{106}}$

(c) $\frac{15}{\sqrt{106}}$ $(d)\ \frac{20}{\sqrt{106}}$

Answer Key

Q.1 b	**Q.2 c**	**Q.3 c**	**Q.4 c**	**Q.5 c**
Q.6 a	**Q.7 b**	**Q.8 a**	**Q.9 c**	**Q.10 a**