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## NEET \& JEE Main Physics DPP

DPP- Thermometry
By Physicsaholics Team
Q) 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 $A B$ is $9 / 5$
(C) Slope of line $A B$ is $1 / 9$
(D) Slope of line $A B$ is $3 / 9$


Ans. b

Q) Oxygen boils at $-183^{\circ} \mathrm{C}$. This temperature on Fahrenheit scale is -
(A) $-215^{\circ}$
(C) $-297^{\circ}$
(B) $-261^{\circ}$

(e)

Ans. c

Q) The temperature of a body on Kelvin scale is found to be xK. When it is measured by Fahrenheit thermometer, it is found to be $x^{\circ} F$, then the value of $x$ is-
(A) 40
(C) 574.25
(B) 313
(D) 301.25

Ans. c

Q) Ice point and steam point on a particular scale reads $10^{\circ}$ and $80^{\circ}$ respectively. The temperature on ${ }^{\circ} \mathrm{F}$ scale when temperature on new scale is $45^{\circ}$ is -


Ans. c

Q) The steam point and ice point of a mercury thermometer are marked as $80^{\circ}$ and $10^{\circ}$. At what temperature on centigrade scale the reading of this thermometer will be $59^{\circ}$ ?
(A) $70^{\circ} \mathrm{C}$
(C) $80^{\circ} \mathrm{C}$
(B) $60^{\circ} @$
(D) None of thesel

Ans. a

Q) A difference of temperature of $25^{\circ} \mathrm{C}$ is equivalent to a difference of :-
(A) $45^{\circ} \mathrm{F}$
(B) $72 .{ }^{\circ}$
(C) $32^{\circ} \mathrm{F}$

Ans. a

Q) At what temperature, the Fahrenheit and Celsius scales will give numerically equal (but opposite in sign) values :-
(A) $-40^{\circ} \mathrm{F}$ and $40^{\circ} \mathrm{C} \quad$ (B) $11.43^{\circ}$ Fand $-11.43^{\circ} \mathrm{C}$
(C) $-11.43^{\circ} \mathrm{F}$ and $+11.43^{\circ} \mathrm{C}$ (B) $+40^{\circ} \mathrm{F}$ and $-40^{\circ} \mathrm{C}$

Ans. b

Q) Which of the curves in figure represents the relation between Celsius and Fahrenheit temperature-
(A) 1
(C) 3

Ans. a

Sol. $[\mathrm{A}] \frac{\mathrm{C}}{5}=\frac{\mathrm{F}-32}{9} \Leftrightarrow \mathrm{C}=\left(\frac{5}{9}\right) \mathrm{F},\left(\frac{20}{3}\right)$ Hence graph between ${ }^{\circ} \mathrm{C}$ and 9 E will be a straight line with positive slope and negative intercept.
Q) Two thermometers X and Y have ice point marked $\mathrm{qt}^{\circ} 15^{\circ}$ and $25^{\circ}$ and steam points marked as $75^{\circ}$ and $125^{\circ}$ respectively. When thermometer X measures the temperature of a bath as $60^{\circ}$ on it, what would thermometer $Y$ read when it is used to measure the temperature of the same bath ?
(C) $100^{\circ}$

Ans. c

Q) The graph shown in the figure is a plot of the temperature of a body in ${ }^{\circ} \mathrm{C}$ and ${ }^{\circ} \mathrm{F}$. The value of $\sin \theta=$

$$
\begin{array}{ll}
\text { (a) } \frac{5}{\sqrt{106}} & \text { (b) } \frac{10}{\sqrt{106}} \\
\text { (c) } \frac{15}{\sqrt{106}} & \text { (d) } \frac{20}{\sqrt{106}}
\end{array}
$$

Ans. a


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