



DPP - 1

Video Solution on Website:-	https://physicsaholics.com/home/courseDetails/54
Video Solution on YouTube:-	
video Solution on TouTube	https://youtu.be/ywVgjA2pU4c
	nometer is marked as -20° and the boiling point as 130°. y (34°C) on this thermometer will be read as:
	Z , the boiling point of water is 65Z and freezing point is Γ = -98 Z corresponds on the Fahrenheit scale to (b) -159 F (d) none of these
	ng point of water as 20° C and boiling point 150° C. Is when the actual temperature is 60° C? (b) 110° C (d) 60° C
Q 4. A centigrade and a Fahrenhotemperature is lowered until temperature registered by ce (a) 80° C (c) 50° C	it therometers are dipped in boiling water. The water the Fahrenheit thermometer reads 140^{0} C . The fall in ntigrade thermometer is (b) 40^{0} C (d) 90^{0} C
temperature of the mixture?	ed with 100 g of water at 100°C. What will be the final
(A) 10° C (B) 20°	$^{\circ}$ C (C) 30 $^{\circ}$ C (D) 40 $^{\circ}$ C
to rest. Assuming 50% of he temperature is (specific heat	
(a) 100^{0} C (b) 12	5^{0} C (c) 150^{0} C (d) 200^{0} C
respectively. If A and B are are mixed, the mixture has a will have a temperature of	s A, B and C have temperatures 10°C, 25°C and 40°C mixed, the mixture has a temperature of 15°C. If B and C temperature of 30°C. If A and C are mixed, the mixture
(a) 16° C (b) 20	$^{\circ}$ C (c) 25 $^{\circ}$ C (d) 29 $^{\circ}$ C
0.8 On increasing temperature of	water from freezing point to boiling point its specific heat



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- (a) remains constant
- (b) first increases then decreases
- (c) first decreases then increases
- (d) decreases throughout
- Q 9. Three different liquids with equal masses (m), specific heat as s_A, s_B and s_C & initial temperature as T_A , T_B & T_C are kept closed in a isolated container, then -

 - (a) final temperature of mixture will be $\frac{1}{3}$ ($T_A + T_B + T_C$) if $s_A = s_B = s_C$ (b) heat given by liquid A to liquid B & C will be $\frac{ms_A}{3}$ ($2T_A T_B T_C$) if $s_A = s_B = s_C$
 - (c) heat absorbed by liquid C will be $\frac{ms_C}{s_A+s_B+s_C}$ [$s_A(T_A-T_C)+s_B(T_B-T_C)$] (d) heat absorbed by liquid A is $\frac{ms_A}{3}$ ($T_B+T_C-2T_A$) if $s_A=s_B=s_C$

nswer Key

Q.1	a	Q.2	b	Q.3	a	Q.4	b	Q.5	a
Q.6	c	Q.7	a	Q.8	c	Q.9	a,b,c,d		