<u>Thermal Processes – 2021 IGCSE 0625</u>

1. Nov/2021/Paper_11,12,13,21,22&23/No.16

The diagram shows a pan used for cooking food.



Which row is correct for the materials used to make the base and the handle of the pan?

	base of pan	handle of pan
Α	good thermal conductor	good thermal conductor
В	good thermal conductor	poor thermal conductor
С	poor thermal conductor	good thermal conductor
D	poor thermal conductor	poor thermal conductor



2. Nov/2021/QPaper_33/No.5

Fig. 5.1 shows two metal blocks, A and B, which are the same size and made of the same material. Block A has a dull black surface and block B has a shiny white surface.

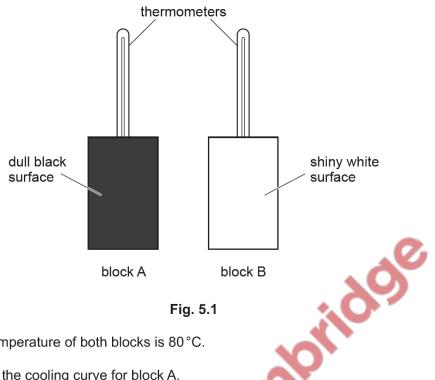


Fig. 5.1

The starting temperature of both blocks is 80 °C.

Fig. 5.2 shows the cooling curve for block A.

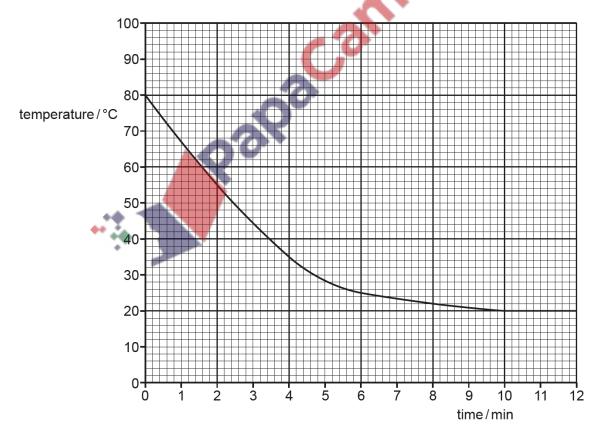


Fig. 5.2

(a)	(i)	Using Fig. 5.2, determine the change in temperature for block A from 0 to 2 min.		
			[1]	
(ii)		Determine the final temperature of block A.		
		final temperature =°C	[1]	
	(iii)	Explain why block A has a steady final temperature.		
			[1]	
(b)	The	ne results for block B are slightly different from the results for block A.		
	(i)	Predict the cooling curve for block B by drawing a line on the graph in Fig. 5.2.	[3]	
	(ii)	Explain why the results for block B are slightly different from the results for block A.		
			[1]	
		[Total:	: 7]	
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