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**COURSE: ENG 282 (ENGINEERING MATHS)** 

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**DEPT: MECHATRONICS ENGINEERING** 

(1) intal temperature = 10° c After 5 mis; temperature = 20°C Afte 5 mms; crehal knoperature = 25 C System temperature = 24 °9°C. At 25°c achar temperature - thermometer shows thereby 24.9x 25 = At 24.9°C .: actual temperature when thorowomete reading is 24. 92 of it takes 5 minutes for a 15°C jump in temperature ... (31.2-24.9) = 6.3°C 1°C -> 1×5= 0-333 Azns 1°C -) 1×5 = 1°C -) 0-333 mins \$ 31.2°C > 10.4 mins. .. It takes about 10 minutes and 24 second to increase temperature from zero to 24:9°C. Time taken >> 10 mins, 24 seconds.

