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Q3) a) Explain i) Heat Engine ii) Refrigerator and iii) Heat Pump with neading diagram.	it block [6]
b) Explain Fourier's law of heat conduction. A plane wall has a to conductivity of 1.15 W/mKl. With inner surface is at 1100°C and surface is at 350°C, then What should be thickness (in meter) of the maintain a steady heat flux of 2500 W/m <sup>2</sup> ?	d outer
c) Differentiate between Stroke S.I and C.I engine.	[5]
OT 101 OR	
(24) a) Explain with examples, classification of steam generators.	[5]
b) Differentiate between different modes of heat transfer.	[4]
c) A heatengine operates between sources and sinks temperatures of and 30°C respectively. If heat engine receives 35 kW from the s Fine i) The net work done by the engine ii) Heat rejected to the s the engine and iii) Efficiency of the engine. Draw the sketch of the sign of the engine iii) iii) iii) iii) iii) iii) iii) i	ource,
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