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8.a) Explain the mechanical details and principle of operation of positive displacement compressor.

b) Write a note on velocity and pressure variations in dynamic compressors. [5+5]

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OR

9.a) Explain the mechanical details and principle of operation of Axial flow compressor.

b) What is slip factor? And explain impeller blade shape losses. [5+5]

10.a) Describe with a neat diagram a open cycle gas turbine. State also its merits and demerits.

b) Describe with neat sketches working of a simple constant volume cycle gas turbine.

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[5+5]

OR

11.a) Explain working of simple gas turbine plant with neat sketch.

b) Explain the regenerative and reheating cycles of gas turbines with suitable sketches.

[5+5]

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