

Reg. No. :

Name :

IV Semester B.Tech. Degree Examination, July 2009 Branch : Mechanical Engg. Lab : IC ENGINES LAB

Time : 3 Hours

Max. Marks : 100

(Answer one question, as chosen by lot)

- 1. Conduct an experiment to determine the flash point and fire point of the given oil. Comment the result.
- 2. Conduct an experiment to determine to find the calorific value of the given fuel using Junker's gas calorimeter.
- 4. Conduct a constant speed test on the given single cylinder petrol engine and plot the following performance curves :
 - a) TFC vs BP.
 - b) SFC vs BP.
 - c) Mechanical Efficiency vs BP.
 - d) Brake thermal efficiency vs BP.

Comment on your results.

- 5. Conduct a constant speed test on the given diesel engine and plot the following performance curves :
 - a) TFC vs BP.
 - b) SFC vs BP.
 - c) Mechanical Efficiency vs BP.
 - d) Brake thermal efficiency vs BP.

Placement Paper with Answers, latest papers free to download from howtoexam.com

Comment on your results.

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- 6. Conduct experiment on given diesel engine under different loading condition and hence plot the following graphs.
 - a) Mechanical Efficiency vs BP.
 - b) Volumetric Efficiency vs BP.
 - c) Air fuel ratio vs BP.
- 7. Conduct a morse test to find the indicated power of the multi cylinder petrol engine. Comment on the results.
- 8. Conduct heat balance test on the given diesel engine and prepare a heat balance sheet and heat balance chart using the obtained data.
- 9. Conduct experiment on the given diesel engine to draw the valve timing diagram. Comment on the results.
- 10. Conduct a text on the given reciprocating air compressor and plot the following characteristic curves.
 - a) Volumetric efficiency vs Delivery pressure.
 - b) Overall efficiency vs Delivery pressure.
- 11. Conduct a load test on the multi cylinder petrol engine and plot the performance curves :
 - a) TFC vs BP.
 - b) SFC vs BP.
 - c) Mechanical Efficiency vs BP.
 - d) Brake thermal efficiency vs BP.

Comment on the results.