

xv) Explain how idle air control is done in a carburettor.

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SECTION-C

Note: Long answer type questions. Attempt any three questions. 3x10=30

- Q.3 Explain working of distributor type fuel injection pump with diagram.
- Q.4 Explain phases of fuel combustion in diesel engine in detail.
- Q.5 Differentiate between construction & working of petrol & diesel engine.
- Q.6 Explain principle, construction & working of supercharger in detail.
- Q.7 Write short notes on :
- (a) Theory of carburetion
 - (b) Importance of emission rules & regulations.

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5th Sem. / Auto Engg.

Subject : Auto Engine - II

Time : 3 Hrs.

M.M. : 100

SECTION-A

Note: Very Short Answer type questions. Attempt any 15 parts. (15x2=30)

- Q.1 a) What is function of compressor in turbocharger?
- b) What is air-fuel ratio?
 - c) What is function of spark plug?
 - d) What is cetane number of diesel?
 - e) What is compression ratio of a petrol engine?
 - f) What is function of nozzle?
 - g) What is dead volume?
 - h) What is full form of I.H.P.?
 - i) What is solid injection?

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- j) Name any two pollutants of petrol engine.
- k) What is a pre-combustion chamber?
- l) What is jet propulsion?
- m) What is function of secondary fuel filter?
- n) Write two examples of Indian manufactures of trucks.
- o) What is specific fuel consumption?
- p) Write full form of CNG.
- q) What is brake mean effective pressure?
- r) Write names of any two parts of supercharger.
- iv) What are advantages of exhaust gas recirculation?
- v) Write the specifications of diesel engine used in any Leyland truck.
- vi) Briefly describe the requirements of a good S.I. Engine fuel.
- vii) Explain the working of hybrid car.
- viii) State the functions of a carburettor.
- ix) What are advantages of turbocharger over supercharger?
- x) What are different engine pollutants produced by diesel engines?
- xi) Write the specifications of diesel engine used in any TATA car.
- xii) How will you reduce pollutants in case of a petrol engine?
- xiii) Explain the factors affecting Ignition timing in SI engines.
- xiv) Explain scavenging of two stroke engine in brief.

SECTION-B

Note: Short answer type questions. Attempt any ten parts 10x4=40

- Q.2
- i) Explain the working of wankel engine.
 - ii) Explain the principle of turbocharging.
 - iii) What are different types of nozzles used in diesel engines?

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