

# C.U.SHAH UNIVERSITY

## Summer Examination-2016

Subject Name : Automobile Engines

Subject Code : 4TE04AEN1

Branch : B.Tech (Automobile)

Semester : 4 Date :16/05/2016

Time :2:30 To 5:30

Marks :70

Instructions:

- (1) Use of Programmable calculator & any other electronic instrument is prohibited.
  - (2) Instructions written on main answer book are strictly to be obeyed.
  - (3) Draw neat diagrams and figures (if necessary) at right places.
  - (4) Assume suitable data if needed.
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Q-1

Attempt the following questions:

(14)

- 1) The brake thermal efficiency for SI engine varies from:  
(a) 40- 50% (b) 45-60%  
(c) 25- 30% (d) 80-85%
- 2) The process of increasing the density of air before it enters the engine cylinder is known as  
(a) Scavenging (b) Super charging  
(c) knocking (d) Preheating
- 3) In a carburetor, the level of the fuel in the float chamber as compared to the level of the main jet in the venturi is  
(a) Same (b) Higher (c) Lower (d) None of the above
- 4) A Pintaux nozzle is  
(a) Simple hole nozzle (b) Multi hole nozzle  
(c) Nozzle having and auxiliary hole (d) The same as Pintle nozzle
- 5) The sparking voltage of the spark plug is  
(a) 6 to 12 V (b) 80-90 V (c) 10 to 450V (d) 8kV to 15kV
- 6) In a diesel engine the duration between the start of injection is known as  
(a) Physical delay (b) Chemical delay  
(c) Ignition delay (d) Period of ignition
- 7) Rope brake dynamometer is used to determine:  
(a) Brake power (b) Volumetric efficiency  
(c) Fuel used (d) Air : Fuel ratio





