

M.Tech. 1st Semester (ME) CBCS Scheme

Examination, December-2018

IC ENGINE COMBUSTION AND POLLUTION

Paper- MTME21C3

Time allowed : 3 hours]

[Maximum marks : 100

Note: Question No. 1 is Compulsory. Students have to attempt five questions in total, at least one from each Section. All questions carry equal marks.

- 1. (a) What is gasoline grades? 5
- (b) What is flame stabilization? 5
- (c) What is burning of carbon? 5
- (d) What is combustion chart? 5

Section-A

- 2. What are different required properties of S.I. and C.I engine fuel? Also explain the rating of Fuel? 20
- 3. (a) What are different types of Hydrocarbons in Petroleum Fuel? 10
- (b) What is combustion chart and gas table for air fuel mixture? 10

Section-B

- 4. What is Combustion? What are different combustion modes and Flame types? 20

- 5. Explain the following: 20
 - (a) Turbulent Flame propagation.
 - (b) Laws of thermodynamics.

Section-C

- 6. (a) What is the effect of pollutant emission from premixed combustion? 10
- (b) What is the detonation velocity? 10
- 7. What is detonation? Explain the principle, characteristics, structure of detonation waves? 20

Section-D

- 8. (a) What is determination of air fuel ratio? 10
- (b) Explain the orset apparatus. 10
- 9. Write short note on the following: 20
 - (a) Infrared analyzer
 - (b) Exhaust gases and analysis.

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