

No. of Printed Pages : 4  
Roll No. ....

220351

**5th Semester/Automobile  
Subject : Auto Engine-II**

Time : 3 Hrs.

M.M. : 60

**SECTION-A**

**Note:** Multiple choice questions. All questions are compulsory (6x1=6)

- Q.1 Octane rating is used for fuel used in?  
a) Petrol engine            b) Diesel engine  
c) Carnot engine            d) Steam engine
- Q.2 Compression ratio of diesel engine is?  
a) 2 to 3                      b) 7 to 10  
c) 16 to 20                  d) 5 to 6
- Q.3 The ignition quality of Diesel expressed by?  
a) Cetane no.                b) Calorific value  
c) Octane no                 d) None of the above
- Q.4 Wankel engine is?  
a) Reciprocating type      b) Rotary type  
c) Stirling type              d) Steam type

- Q.5 Blue smoke is diesel engine indicates?  
a) Nox                                      b) HC  
c) CO                                         d) Unburnt oil

- Q.6 Lead is exhaust gases may damage?  
a) Brain                                      b) Digestion system  
c) Lungs                                      d) Hairs

### SECTION-B

**Note:** Objective/ Completion type questions. All questions are compulsory. (6x1=6)

- Q.7 Full form of CNG is \_\_\_\_\_.  
Q.8 Cetane rating is used for \_\_\_\_\_ fuel.  
Q.9 Write the full form of EGR.  
Q.10 The catalytic converter is used to control \_\_\_\_\_.  
Q.11 Detonation takes place in petrol engine. (True/False)  
Q.12 Petrol engine works on \_\_\_\_\_ cycle.

### SECTION-C

**Note:** Short answer type questions. Attempt any eight questions out of ten questions. (8x4=32)

- Q.13 State the phase of combustion in CI engine.  
Q.14 Write a short note on ignition delay in CI engine.

- Q.15 Explain the working of mechanical governor with diagram.  
Q.16 Describe the various causes of high fuel consumption in an engine.  
Q.17 Explain the different types of pollutants released from SI engine.  
Q.18 Explain the function of positive crankcase ventilation.  
Q.19 Write the engine specifications of Maruti Swift petrol car.  
Q.20 Explain the working of a turbocharger.  
Q.21 How does a catalytic converter reduce emissions?  
Q.22 Explain the working of a fuel cell engine.

### SECTION-D

**Note:** Long answer type questions. Attempt any two questions out of three questions. (2x8=16)

- Q.23 Discuss the various combustion chambers used in CI engines with diagram.  
Q.24 Describe the working of rotary engine with diagram.  
Q.25 Explain the working of exhaust gas recirculation (EGR) with diagram.