

Q.21 Write technical specification of a Maruti swift petrol car

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Q.22 Explain the working of EGR

### **SECTION-D**

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

Q.23 Explain working of turbocharger with neat diagram and write its advantages also. (CO4)

Q.24 What are the causes and remedies of high oil consumption? (CO4)

Q.25 Explain the construction & working of Wankel Engine.

Time : 3 Hrs.

M.M. : 60

### **5th Sem./ Automobile Subject : Auto Engine - II**

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

Q.1 What are the effects of knocking?

- a) Noise and roughness
- b) Mechanical damage
- c) Carbon deposits
- d) all of the mentioned

Q.2 Which type of control valve is used in the operation of the injector?

- a) Mechanical
- b) Electrical
- c) Pneumatic
- d) Hydraulic

Q.3 Compression ratio of Diesel engine is

- a) 2 to 3
- b) 7 to 10
- c) 16 to 20
- d) 5 to 6

Q.4 What are the major pollutants emitted from the exhaust due to incomplete combustion?

- a) carbon monoxide    b) hydrocarbons
- c) oxide of nitrogen    d) all of the mentioned

Q.5 \_\_\_\_\_ in supercharging pressure increases the tendency to detonate and pre-ignite.

- a) Decrease                 b) Increase
- c) unpredictable
- d) None of the mentioned

Q.6 In a \_\_\_\_\_ governor the camshaft of the pump is fitted to two ball weights.

- a) pneumatic
- b) mechanical
- c) mechanical & pneumatic
- d) none of the mentioned

## SECTION-B

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

Q.7 Full form of A:F ratio is \_\_\_\_\_ ratio.

Q.8 Compression ratio of petrol engine is \_\_\_\_\_ than diesel engine?

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Q.9 \_\_\_\_\_ reduces the effects of exhaust emission.

Q.10 \_\_\_\_\_ get power with the help of exhaust gases.

Q.11 Full form of OPOC is \_\_\_\_\_.

Q.12 Full form of LPG is \_\_\_\_\_.

## SECTION-C

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

Q.13 What are the phases of combustion in CI engines? (CO3)

Q.14 Compare blocking and detonation? (CO4)

Q.15 Explain the working of CRDI (CO3)

Q.16 Explain working of fuel cell in 60 words with diagram? (CO3)

Q.17 Draw and label the parts of hybrid system? (CO4)

Q.18 What are the advantages of CNG engine over petrol engines? (CO3)

Q.19 What are the effects of engine emission on human beings? (CO2)

Q.20 How crank ventilation works? (CO4)

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