

B.Tech. 4th Semester (AUE) F-Scheme Examination,
May-2018

AUTOMOTIVE PETROL ENGINES

Paper-AUE-206-F

Time allowed : 3 hours] [Maximum marks : 100

Note : Attempt five questions. Q. No. 1 is compulsory and attempt at least one question from each section.

1. Write short note on following : 5×4=20
- (a) Otto cycle.
 - (b) Properties of coolant.
 - (c) Petrol injection.
 - (d) Scavenging pumps.

Section-A

2. Discuss the actual indicator diagram for petrol engines. 20
3. What are the requirements of an automotive carburettor and discuss its terminology. 20

Section-B

4. Discuss the constructional detail of 4-stroke petrol engine with the help of diagram. 20

5. What is lubrication ? What are the various types of lubrication ? Explain with the help of diagram. 20

Section-C

6. What is fuel feed system ? Explain it in detail. 20
7. What is knocking ? What are the effects of engines variables and knocking on engine combustion ? 20

Section-D

8. Explain cooling system. What is the need of cooling system ? Also explain any two types of cooling system. 20
9. What is scavenging ? Explain theoretical scavenging methods. Also explain the scavenging pump. 20