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Total No. of Pages : 02

Total No. of Questions : 18

B.Voc. (Automobile Servicing) (Sem.-3)

AUTOMOBILE ENGINE SYSTEMS

Subject Code : 6.GV.03

M.Code : 78771

Time : 3 Hrs.

Max. Marks : 30

INSTRUCTIONS TO CANDIDATES :

1. **SECTION-A** is **COMPULSORY** consisting of **TEN** questions carrying **ONE** mark each.
2. **SECTION-B** contains **FIVE** questions carrying **2¹/₂** (Two and Half) marks each and students have to attempt any **FOUR** questions.
3. **SECTION-C** contains **THREE** questions carrying **FIVE** marks each and students have to attempt any **TWO** questions.

SECTION-A

Write briefly :

- 1) What is internal energy?
- 2) What is mechanical equivalent of heat?
- 3) Define compression ratio.
- 4) Enlists the forms of combustion chamber in a petrol engine.
- 5) What are mufflers?
- 6) What is static balancing?
- 7) What is cycle efficiency of IC turbines?
- 8) Define "Scavenging".
- 9) Give the necessity of supercharging.
- 10) State the concept of variable valve timing.

SECTION-B

- 11) Explain Temperature-Entropy diagram.
- 12) Discuss the poppet valve arrangement.
- 13) Write a short note on construction and working of a connecting rod.
- 14) Discuss in brief the requirement of a turbocharger.
- 15) Give the specifications of four wheelers in India.

SECTION-C

- 16) How does the diesel cycle differ from Otto cycle?
- 17) Compare the advantages and disadvantages of four-stroke and two-stroke cycle engines.
- 18) Explain the principle of operation of internal combustion turbine.

NOTE : Disclosure of Identity by writing Mobile No. or Making of passing request on any page of Answer Sheet will lead to UMC against the Student.