

Seat No: \_\_\_\_\_

Enrollment No: \_\_\_\_\_

**PARUL UNIVERSITY**  
**FACULTY OF ENGINEERING & TECHNOLOGY**  
**Diploma Engineering, Mid semester Examination**

**Semester: 3<sup>rd</sup>**  
**Subject Code: (03612201)**  
**Subject Name: (Automobile Engine)**

**Date: (10/08/2022)**  
**Time: (1hr: 30min)**  
**Total Marks: 40**

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**Instructions:**

1. Attempt all questions.
2. Make suitable assumptions wherever necessary.
3. Figures to the right indicate full marks.
4. English version is considered to be Authentic.

**Q.1 Answer any six out of Ten. (2 Marks Each) (12)**

1. What is Bore ?
2. Give functions of flywheel.
3. Give definition of four stroke engine.
4. Draw and label the main parts of connecting rod.
5. What is Stroke ?
6. Give function of piston.
7. What is the important of crankshaft ?
8. Which material is used for piston ?
9. What is the function of piston ring ?
10. What is the importance of valves ?

**Q.2 A) Give the differences between two stroke and four stroke engine (03)**

**OR**

A) What is scavenging process in two stroke engine ? (03)

B) Explain working of four stroke petrol engine. (03)

**OR**

B) Explain working of four stroke Diesel engine. (03)

C) Explain working of Two stroke petrol Engine. (04)

**OR**

C) Draw neat sketch of single cylinder Petrol engine and label the parts. (04)

D) Give the differences between Petrol and Diesel engine. (04)

**Q.3 A) Short Note- Piston (03)**

**OR**

A) Short Note- Engine Block (03)

B) Give the Material and Manufacturing process of 1. Piston 2. Connecting Rod (03)

**OR**

B) Write down functions of Compression ring (03)

C) Write down any ten parts of IC engine. (04)

**OR**

C) Define 1. Compression Ratio 2. Swept Volume (04)

D) Define 1. IHP 2. BHP (04)

