CBSE Question Paper - 2010

AUTO ENGINEERING

(Theory)

Class – XII

Time allowed: 3 hours

Maximum Marks: 30

1. (a) What is a two –stroke engine?

2

(b) What is a the function of valves in an engine?

2

(c) Give any two qualities of a good bearing.

2

2. (a) Sketch a simple U-joint and name its different parts.

3

(b) What is the function of a differential?

3

3. (a) Explain the working of a disc brake system.

4

(b) Describe the function of a braking system.

2

4. (a) Explain Ackerman's principle of steering system.

4

   (b) What are the functions of a front axle ?

2

5. Explain, in detail, the function and working of a shock –absorber.

6

6. (a) state the function of a car wheel.

3

   (b) What is tyre tread? How is retreading done?

3

7. (a) Name the materials used for the following

1×4

      (i) Torsion bar

      (ii) Propeller shaft

      (iii) Piston

      (iv) Disc brake

   (b) Write short notes on toe- in and toe – out.

2