

# 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.

**Other Educational Websites:**

[ICSEGuess.com](http://ICSEGuess.com) | [NIOSGuess.com](http://NIOSGuess.com) | [IGNOUGuess.com](http://IGNOUGuess.com) | [IITGuess.com](http://IITGuess.com) | [MagicSense.com](http://MagicSense.com) | [AIPMTGuess.com](http://AIPMTGuess.com) | [AIEEEGuess.com](http://AIEEEGuess.com) | [IndiaGuess.com](http://IndiaGuess.com)

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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

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