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# CBSE Question Paper – 2010

## MECHANICAL ENGINEERING

### Class – XII

**Time allowed: 3 hours**

**Maximum Marks: 60**

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|----|--|----|
| 1. | (a) Why are pulleys crowned?   | 3  |
|    | (b) Explain a Simple gear train.   | 3  |
|    | (c) Explain the working of a single plate clutch.                                      | 6  |
| 2. | (a) Give the uses of steam turbines.   | 6  |
|    | (b) Explain the working of a Babcock & Wilcox boiler.                                  | 6  |
| 3. | Explain, with the help of neat sketches, the working of a four – stroke diesel engine. | 12 |
| 4. | (a) Explain the working principle of a water turbine.                                  | 6  |
|    | (b) Explain air – cooling system of I.C engines.                                       | 6  |
| 5. | (a) Describe the construction and working of a concrete mixer.                         | 6  |
|    | (b) Give the function and use of an economizer.  | 6  |

**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) | 
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