

II B.Tech. I Semester Supplementary Examinations, November -2006
AUTOMBILE ENGINEERING DRAWING
(Automobile Engineering)

Time: 3 hours

Max Marks: 80

Answer any FIVE Questions
All Questions carry equal marks

1. Draw a right-handed and a left-handed Whit-Worth threaded piece 64 mm diameters, 72 mm long and 6 mm pitch. [16]
2. Draw the following nuts of 25 mm nominal diameter: [16]
 - (a) Castle Nut
 - (b) Square Nut
3. Draw standard hexagonal headed bolt of nominal diameter 25 mm. [16]
4. Draw two views of a single riveted butt joint with two cover plates, for 12 mm thick plates. [16]
5. Draw neat and proportionate sketches of any three types of keys. [16]
6. Draw a well-proportioned free hand sketch of a flanged coupling. [16]
7. Sketch and label the various parts of the steering arm used in an automobile. [16]
8. Draw neat free hand sketch of IC Engine Connecting Rod and label the important components of it. [16]

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1. Draw Acme thread section, to a scale full size, and give all the standard proportions.
Take pitch of thread = 40 mm. [16]
2. Draw the following nuts of 20 mm nominal diameter: [16]
 - (a) Dome Nut
 - (b) Ring Nut
3. Draw any two foundation bolts of 25 mm nominal diameter. [16]
4. Draw double riveted lap joint rivets zig-zag type. Take thickness of plates as 10 mm. [16]
5. Draw any one view of spigot and socket cottered joint to a suitable scale. [16]
6. Draw a proportioned free hand sketch of an Oldham's coupling. [16]
7. Draw a neat free hand sketch of engine mount and label important parts of it. [16]
8. Draw the simple sketch of IC Engine Piston and label its important components. [16]

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1. Draw a right handed and left handed square thread. Take outside diameter = 64 mm, threaded length = 72 mm and pitch = 12 mm. [16]
2. Sketch three forms of spring washers. Take suitable dimensions. [16]
3. Draw the following types of foundation bolts of 15 mm diameter: [16]
 - (a) Hoop Bolt
 - (b) Curved Bolt
4. Draw double riveted butt joint with two cover straps, chain type riveting. Take thickness of plates as 9 mm. [16]
5. Draw two views of a hub and shaft of 54 mm diameter with a rectangular taper sunk key in position. [16]
6. Draw a proportioned sketch of bushed type shaft bearing. [16]
7. Draw a neat free hand sketch of steering box bracket and label the important parts of it. [16]
8. Sketch neatly the spring loaded hydraulically operated fuel injector. [16]

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1. Draw the Knuckle thread section to a scale full size and give all the standard proportions. Take pitch of thread 30 mm. [16]
2. Draw the following nuts of 20 mm nominal diameter: [16]
 - (a) Flanged Nut
 - (b) Wing Nut
3. Draw a countersunk headed tapered bolt of nominal diameter 30 mm. [16]
4. Draw triple riveted lap joint using rivets in zig-zag arrangements to join 12 mm thick plates. [16]
5. Draw any one view of sleeve and cotter joint to a suitable scale. [16]
6. Neatly sketch a split muff coupling for 25 mm diameter shafts. [16]
7. Draw the neat free hand sketch of half sectional view of spark plug and label the important parts of it. [16]
8. Sketch neatly the Solex Carburettor and indicate the important parts. [16]
