

00190

**B.Tech. MECHANICAL ENGINEERING
(BTMEVI)**

Term-End Examination

June, 2013

BIME-003 : MACHINE DRAWING

Time : 3 Hours

Maximum Marks : 70

Note : All questions carry equal marks. Attempt any five questions.

1. (a) Draw two views of a feather key or a Taper key. 4
- (b) Draw two views of a KNUCKLE joint to join two shafts of 25 mm diameter. 10

2. Draw two views of a PIN - BUSH type flexible coupling with shaft diameter as 50 mm. 14

3. (a) Draw : 4
 - (i) Conical Headed Rivet
 - (ii) Countersunk Headed RivetTake shank diameter $D=20$ mm
- (b) Draw a double rivited double strap zig-zag butt joint to join two plates of 10 mm thickness. 10

4. Draw the following threads for pitch $p=10$ mm **14**
- (a) Whitworth Thread
 - (b) British Standard Thread
 - (c) Square Thread
 - (d) Acme Thread
5. Write short notes on : **14**
- (a) Graphic output devices
 - (b) Auto Cad
 - (c) Drafting AIDS
 - (d) Method of Constructing an ARC
6. Draw the three views of a Hexagonal Headed bolt **14**
with a Hexagonal Nut and washer. Take the
shank dia of Bolt as 20 mm.
7. Draw *any three* of the following : **14**
- (a) Sawn Nut
 - (b) Split Pin In Nut
 - (c) Dome Nut
 - (d) Cap Nut
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