

## ENGINEERING DRAWING-II

**2<sup>nd</sup> Exam/Mech/RAC/Prod/Chem/PT/TT/Marine/T&DM/Aero/2454/2551/5426/Nov'16**  
**Duration: 3 hrs** **M. Marks: 100**

### SECTION – A

#### Q1. Fill in the blanks

**2x10=20**

- In double strap butt joints the thickness of straps is.....
- .....threads are used in screw jack.
- The angle of an ACME thread is.....degrees.
- A spring washer is used when there is.....in machinery.
- Keys is fitted.....to the axis of the shafts.
- Keys are made of.....
- An Oldham's coupling connects two shafts when they are.....
- A joint is formed by using a cotter called.....joint.
- Bolt and nut is a.....fastening.
- Wing nut is used for.....work.

### SECTION – B

#### Q2. Attempt any three questions

**10x3=30**

- Draw any two types of threads from follow
  - Lock nut
  - Acme nut
  - Knuckle thread
- Draw the free hand sketch of wing nut and lock nut.
- Define Key. Explain 5 types of keys.
- Draw any three types of rivet heads.
- What is the difference between caulking and fullering?

### SECTION – C

#### Q3. Attempt any two questions

**25x2=50**

- Draw front, Top and side view of a square headed bolt with hexagonal nut and washer. Take diameter = 32mm.
- Draw the sectional elevation and plan of a single riveted double cover butt joint (chain type) Take diameter of rivet = 28mm.
- Draw free hand sketches i.e. front and top view of a knuckle joint. Assume diameter=28mm.
- Draw free hand sketch of protected type flange coupling. Assume diameter=25mm.