

**R16**

**Code No: 134BJ**

**JAWAHARLAL NEHRU TECHNOLOGICAL UNIVERSITY HYDERABAD**

**B. Tech II Year II Semester Examinations, April - 2018**

**MACHINE DRAWING**  
**(Mechanical Engineering)**

**Time: 3 Hours**

**Max. Marks: 75**

**Answer any THREE questions from Part-A**  
**Part-B is Compulsory**

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**PART- A**

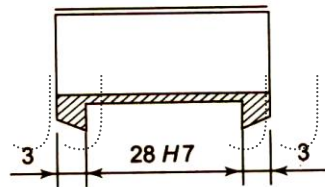
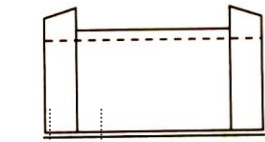
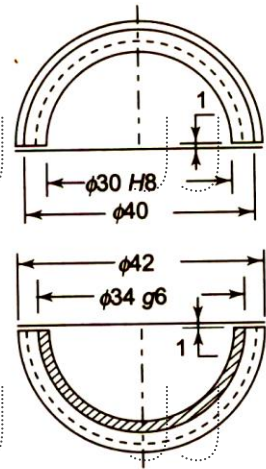
**[3 × 10 = 30 Marks]**

1. Draw the front, top and left hand side view of a 30mm diameter square headed bolt. [10]
2. Draw the full-sectional front view and top view of a single riveted single plate butt joint for plates of 15mm thickness. [10]
3. Draw the sectional front, top and side view of a socket and spigot joint to join two pipes of diameter 35mm each. [10]
4. Draw the sectional front, top and side view of a knuckle joint to join two pipes of diameter 30mm each. [10]

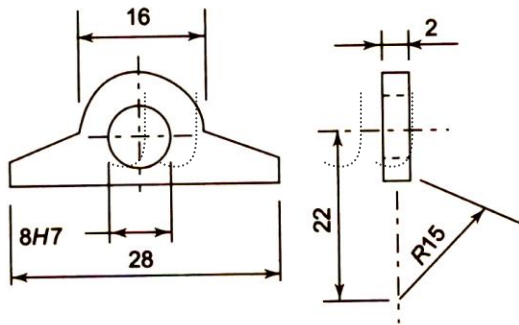
**PART-B**

**1 × 45 = 45 Marks**

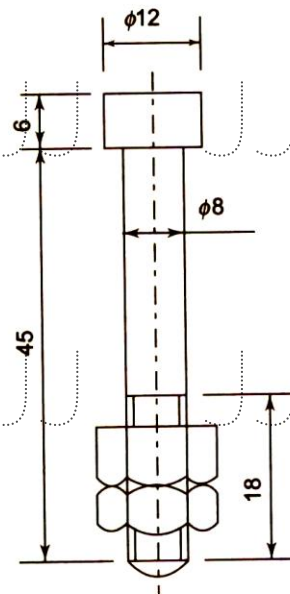
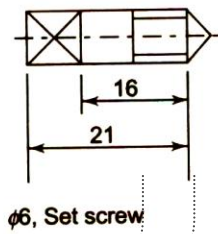
5. Assemble all the parts and draw the following views of the connecting rod.  
a) Full sectional top view  
b) Front view. All dimensions are in mm. [45]



Brasses



Shims  
2 off



8.2 bolts

