S. B. Roll. No.....

ENGINEERING DRAWING-II
2nd Exam/Common/2953/Nov'24
(For 2018 Batch Onwards)

Duration: 4Hrs. **M.Marks:100**

SECTION-A

Q1. Fill in the blanks. **10x1=10**

a. Riveting produces a _____joint.
b. To prevent leakage of steam in case of riveted joints _____ and _____is done.
c. _____ Start threads are used for quick tightening and loosening.
d. The angle of ACME thread is _____degrees.
e. The gib and cotter joint is used to transmit _____ force.
f. Welded joints are _____joints.
g. A cut in a shaft for inserting a key is called_____
h. Woodruff key is a type of _____key.
i. If t is the thickness of plate to be riveted then diameter of rivet is _____
j. Rigid couplings are used for shafts which are_____

SECTION-B

Q2. Attempt any four questions. **4x10=40**

i. Draw front and top view of a hexagonal nut for a bolt of diameter 24mm.
ii. Draw proportionate drawing of following Rivet Heads. a) Flat Counter Sunk b) Snap Head c) Conical Head
iii. Draw free hand but proportionate sketches of the following taking pitch as 30 mm: a) Metric threads b) Acme threads c) Square thread d) BSW thread
iv. Name at least five types of wooden joints. Draw proportionate sketch of any one wooden joint.
v. What is caulking and fullering? Explain in detail.

SECTION-C

Q3. Attempt any two questions. **2x25=50**

a. Draw top view and sectional front view of a double riveted lap joint (Zig-Zag riveting). Take Diameter of rivet = 24mm.
b. Draw front and side cross-sectional view of unprotected flange coupling with proportionate dimensions.
c. Fig-1 shows the component drawing of Knuckle Joint. Draw the front sectional and top views of the assembly.

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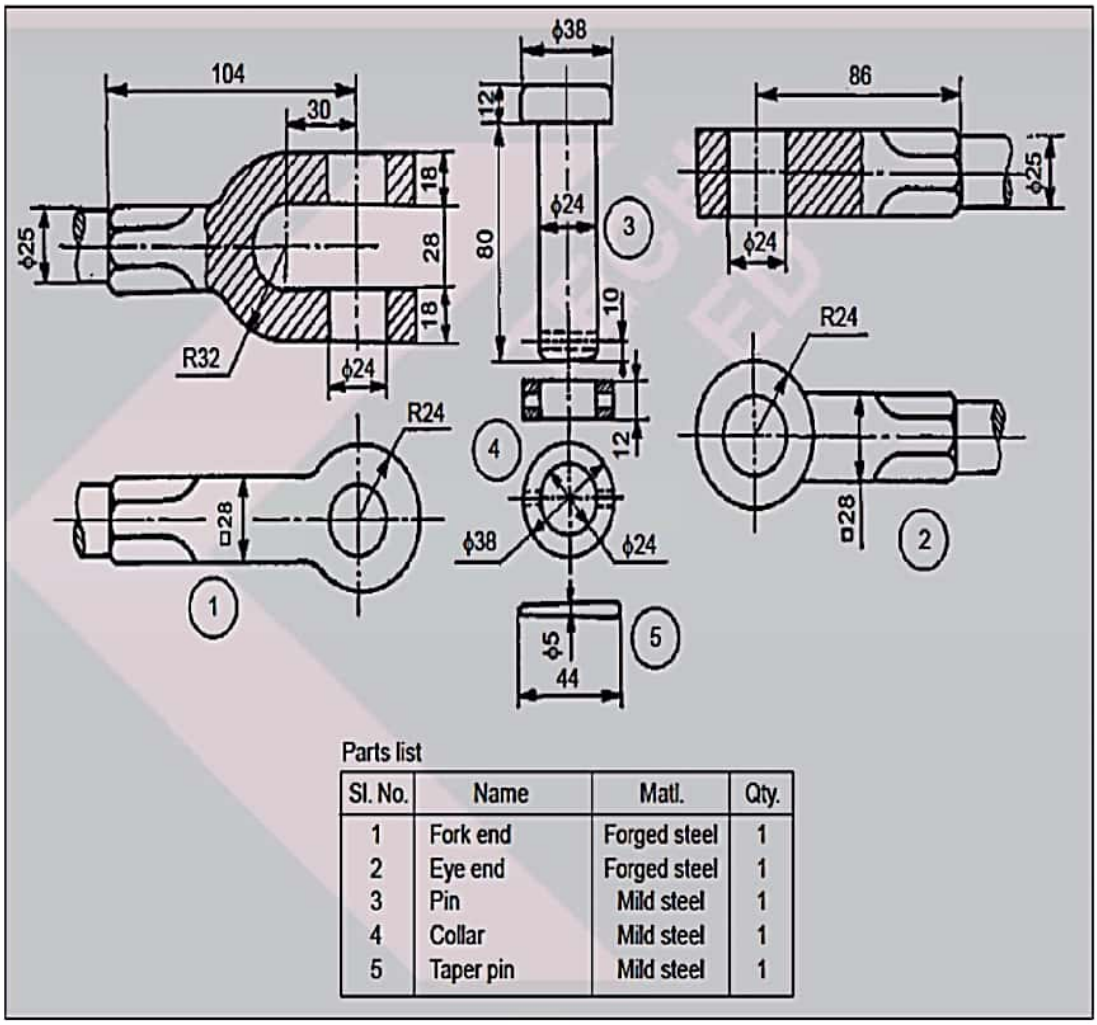

Parts list

Sl. No.	Name	Matl.	Qty.
1	Fork end	Forged steel	1
2	Eye end	Forged steel	1
3	Pin	Mild steel	1
4	Collar	Mild steel	1
5	Taper pin	Mild steel	1

Figure-1