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220125

2nd Sem. / Agri., Automobile, Mechanical, Mechanical (Tool & Die Design)

Subject : Mechanical Engineering Drawing - I

Time : 3 Hrs. M.M. : 60

SECTION-A

Note: Objective/ Completion type questions. All questions are compulsory. (6x1=6)

Q.1 Define Detail Drawing.

Q.2 Define truncation of a thread.

Q.3 Name any two most common nuts used.

Q.4 Define Shaft coupling.

Q.5 Draw the symbol of battery.

Q.6 Define Saddle Key.

SECTION-B

Note: Short answer type questions. Attempt any three questions out of four questions. (3x6=18)

Q.7 Draw the free hand sketch of the following

i) Wing nut ii) Cap nut

Q.8 Draw free hand sketch of rag foundation bolt.

Q.9 Draw the free hand sketch of hexagonal headed Bolt with proportions.

Q.10 Draw the free hand sketch of the following threads.

i) BSW threads

ii) B A threads

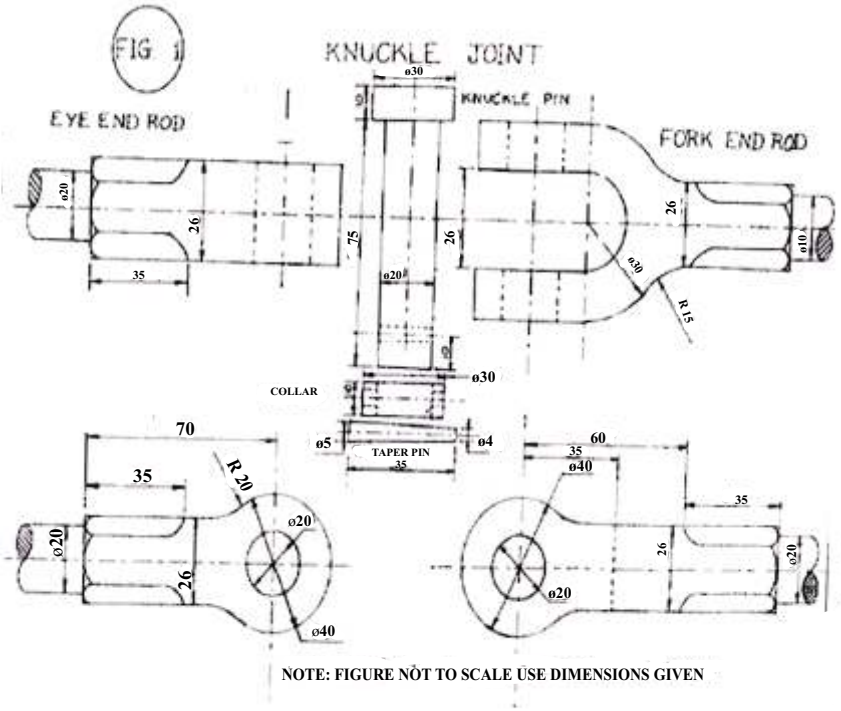
SECTION-C

Note: Long answer type questions. Attempt any three questions out of four questions. (3x12=36)

Q.11 Details of a knuckle joints are given in fig-1. Draw the following views of it after assembling all its parts together to a suitable scale.

(a) Front Elevation

(b) Top Plan



Q.12 The detail drawing of two parts of T halving joints is shown in Fig.2. Read the drawing carefully and draw assembled.

i) Front elevation ii) Side view

iii) Top view. Follow first angle projection method.

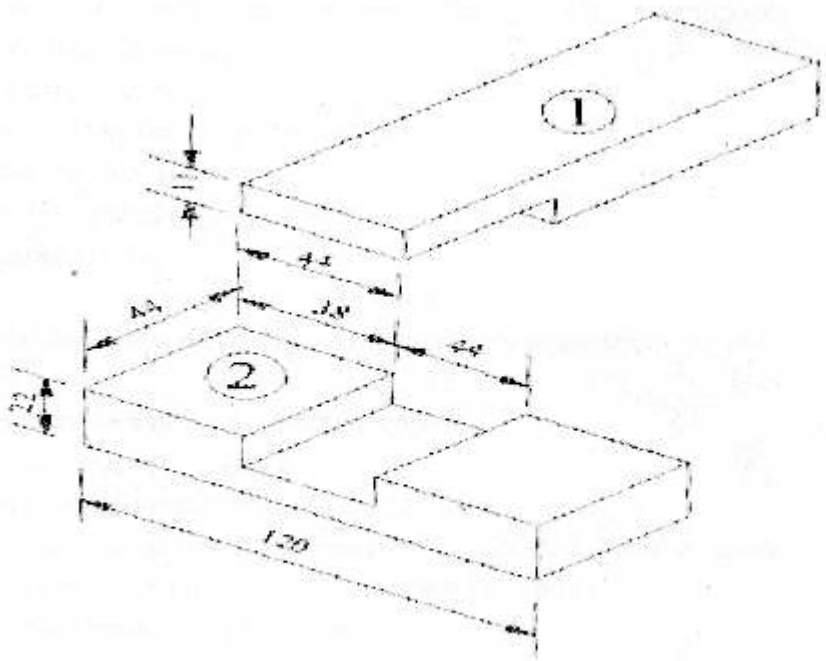


Fig. 2

Q.13 Draw the top view and sectional view of double riveted lap joint (chain type). Take diameter of rivet 21mm.

Q.14 Fig. 3 shows the detail of "shaft coupling" Assemble the parts and draw the following views to a suitable scale.

i) Front view half in section

ii) Top view