Roll no._____ **ID: 180015**

Semester: 1st year
Branch: Common
Subject Name: Engineering Graphics

Time Allowed: 3 Hrs. **MM: 60**

Section –A

Note: Multiple Choice questions. All questions are compulsory. 6x1=6

Q.1 Halving and bridle joints are
(a) Welded Joints (b) Riveted Joints
(c) Wooden Joints (d) Cotter Joints

Q.2 The outermost portion of thread is called
(a) Creast (b) Root
(c) Flank (d) Slop

Q.3 In square headed bolt, radius of front chamfer is
(a) R = 3D (b) R = D
(c) R = 2D (d) R = 4D

Q.4 Lock nut is also known as
(a) Sawn nut (b) Ring nut
(c) Slotted nut (d) Check nut

Q.5 The main parts of the Gib and Cotter joints are
(a) Fork and Rod (b) Gib
(c) Cotter (d) All of the above

Q.6 A Flange Coupling is
(a) used for non-collinear shafts
(b) used for collinear shafts
(c) used only on small shafts rotating at slow sppeds
(d) None of the above

Section-B

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

Q.7 What do you understand by development of surfaces?
Q.8 Write the names of any two wooden joints.
Q.9 Write the names of Square threads.
Q.10 Define Stud.
Q.11 Define Key.
Q.12 What do you understand by shaft coupling?

Section –C

Note: Short answer type Questions. Attempt any eight questions out of ten questions.

8x4= 32

Q.13 Draw the symbols of following
(i) Earth point (ii) Hooter
(iii) Pump (iv) Wash basin

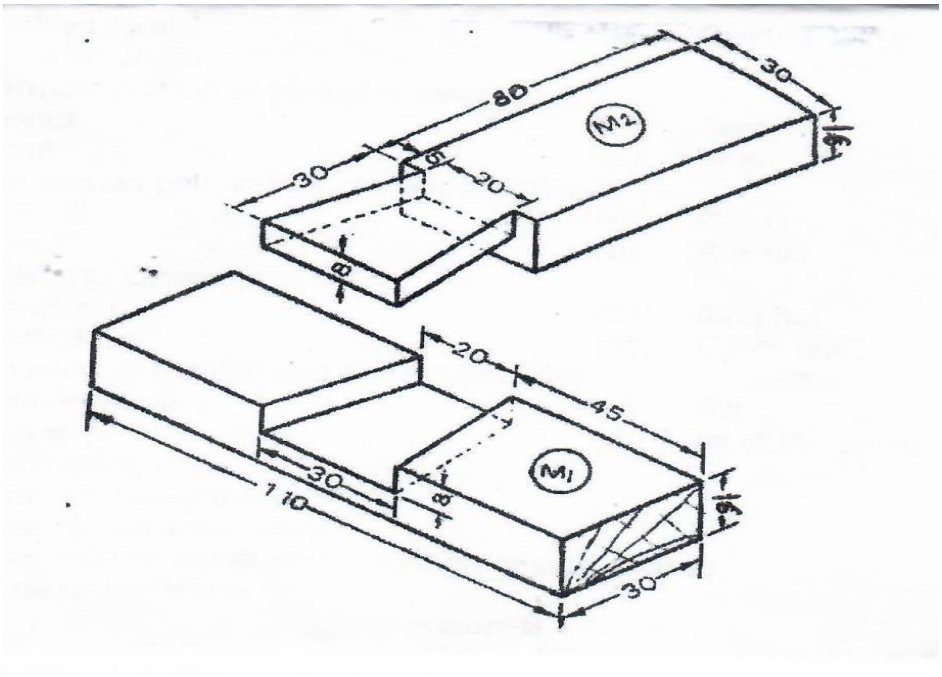
Q.14 Write any four editing commands used in CAD.
Q.15 Draw the front view of Tee halving Joint assume dimensions.
Q.16 Draw the Lewis Foundation Bolt.
Q.17 Write the names of Cotter Joints.
Q.18 Draw free hand sketch of Muff Coupling.
Q.19 Why is shaft coupling required?
Q.20 Define straight threads with a sketch.
Q.21 Draw the free hand sketch of Acme Threads.
Q.22 What is detailed and assembly drawing?

Section-D

Note: Long answer questions. Attempt any two questions out of three questions. **2x8=16**

Q.23 Draw a sketch for development of a rectangular prism whose base is 20mm x 35 mm and height is 60mm.

Q.24 Figure shows the pictorial view of Dovetail Halving Joint. Assemble the fig. and draw the top, front and side view.



Q.25 Explain the nomenclature of threads with suitable sketch.