

The Open University of Sri Lanka Faculty of Engineering Technology



Study Programme

: Bachelor of Technology Honours in Engineering

Name of the Examination

: Final Examination

Course Code and Title

: DMK 5501 - Computer Aided Drafting & Modelling (MEK 5201)

Academic Year

: 2017/18

Date Time : 06th, February, 2019 : 9.30 hrs.-12.30 hrs.

Duration

: 3 hours

General Instructions

- 1. Name your final drawing by your index number and save in the pen drive given by the supervisor / Invigilator.
- 2. Save drawings periodically to prevent data loss
- 3. Drawings saved in the pen drive are considered as the final answer.
- 4. Clarify from the supervisor / Invigilator in your examination hall if you have any doubts.

Q1.

(a). Construct the solid models of the following parts described by Fig I, Fig II, Fig III and Fig IV respectively,

I. Base

60 Marks

- Π. Flange
- III. Hexagonal Nut and Bolt (without threads)
- IV. Pipe

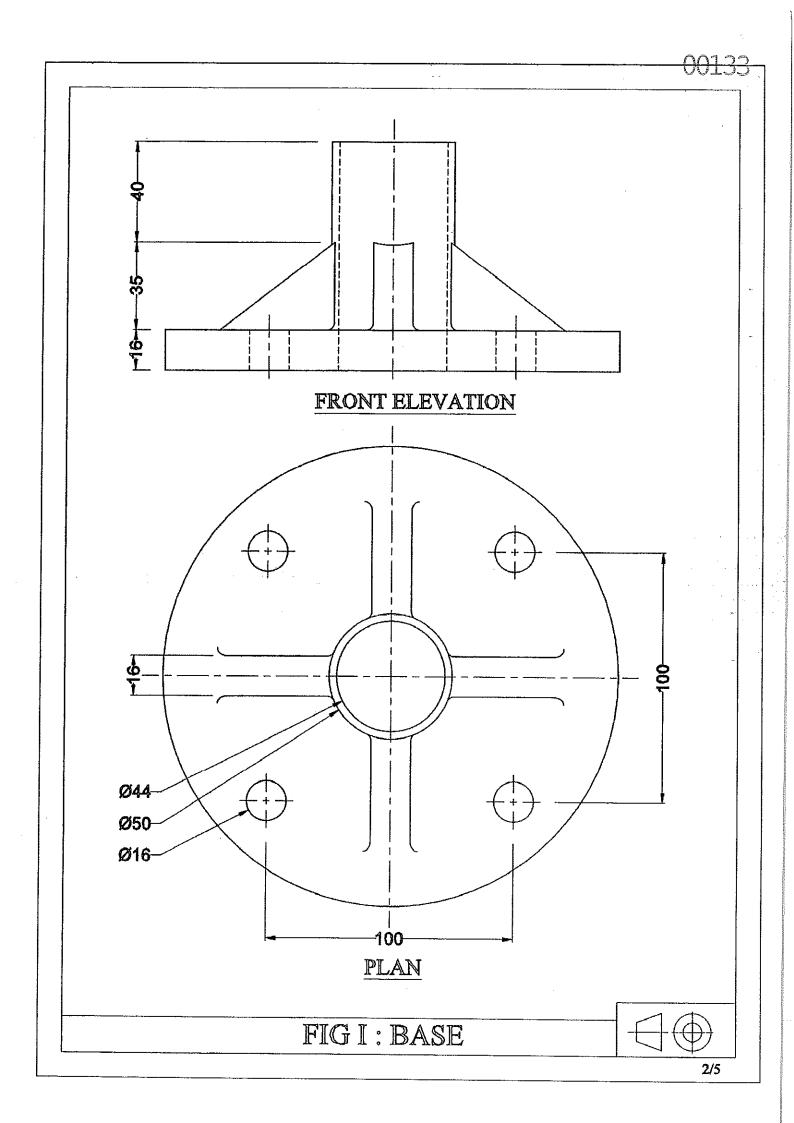
20 Marks

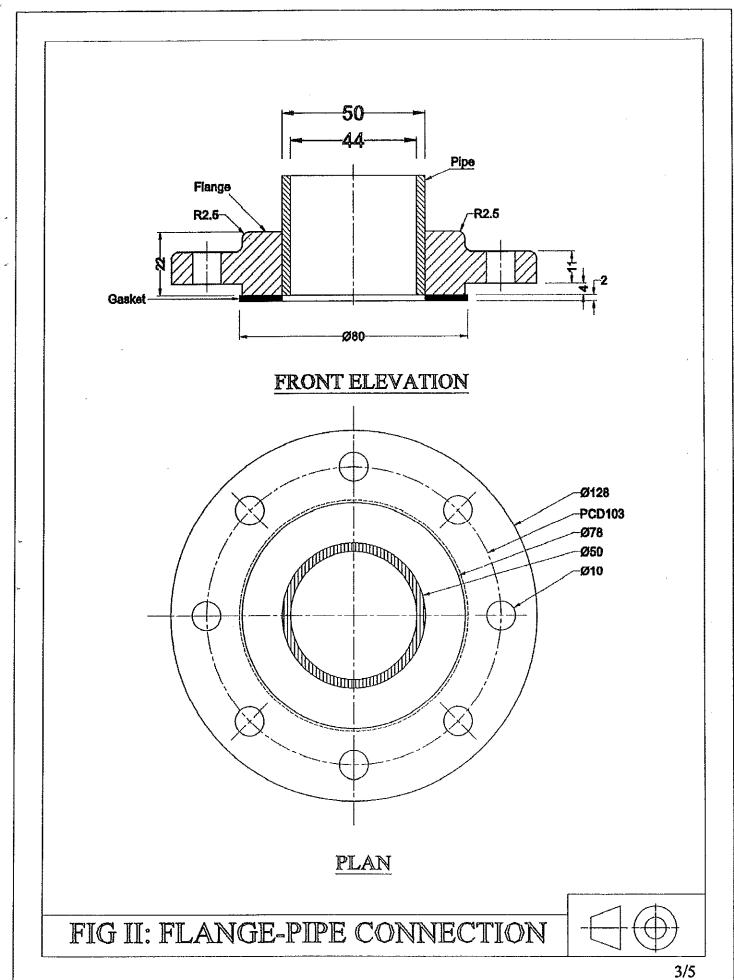
- (b). Construct the PIPE ASSEMBLY as shown in Fig V.
- (c). Generate the Sectional Front Elevation ON X-X from the assembly and insert dimensions.

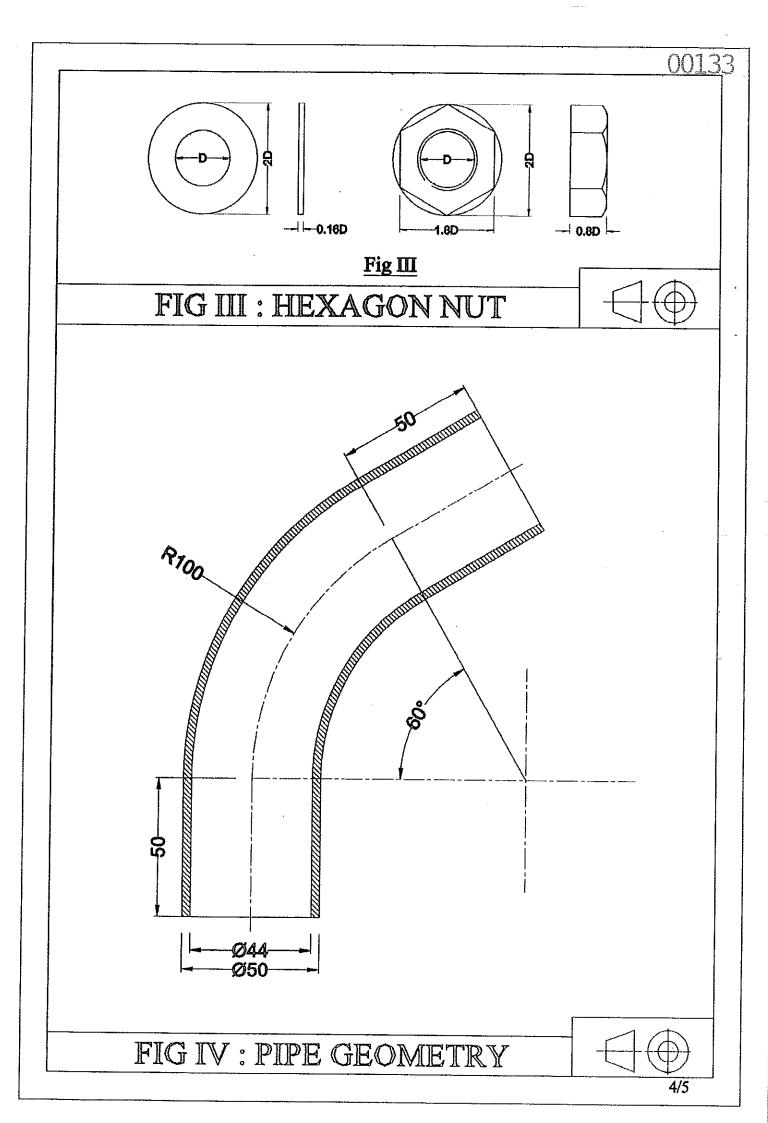
20 Marks

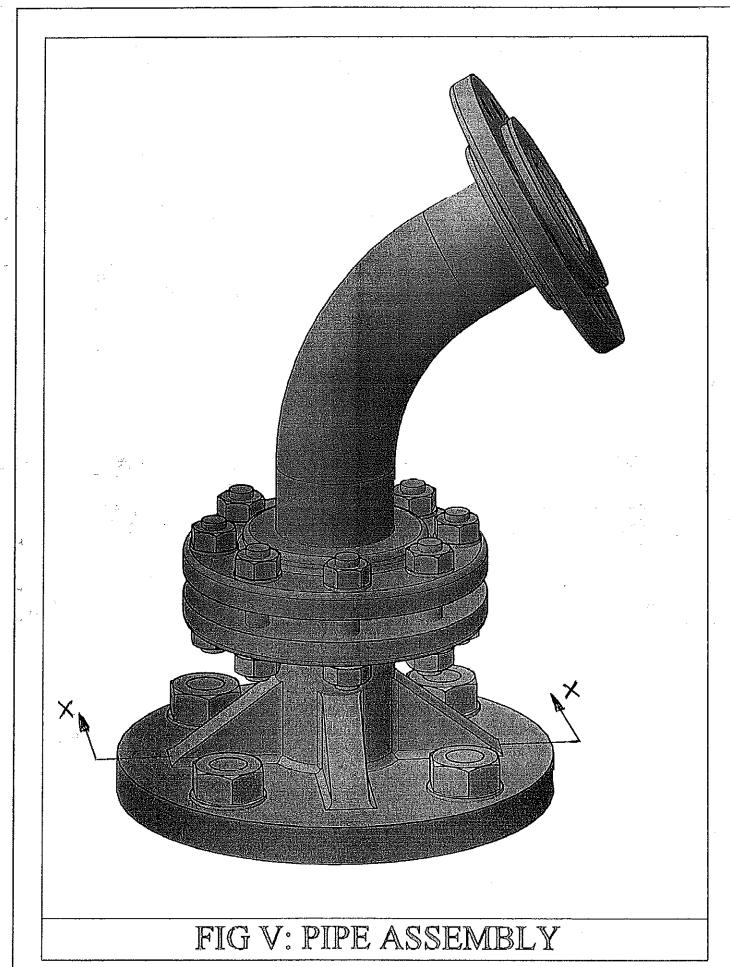
Note:-

- All dimensions are in millimetres and the drawings are not in the actual scale.
- Radii of casting curves may be taken as 3 mm unless otherwise specified.
- Paper size and scale are to be selected according to your preference. Prepare the cage for the drawing accordingly.
- Title of the drawing should be appear as 'FINAL EXAMINATION'.
- Marks are given for the approach, organization of the drawing, overall views, setting of dimension styles, titles and the Standard cage.
- Assume any missing dimensions
- Write down your index number in the title cage
- Do not write your name.









5/5

