

MCP 100

QUIZ 1

Total: 3/10

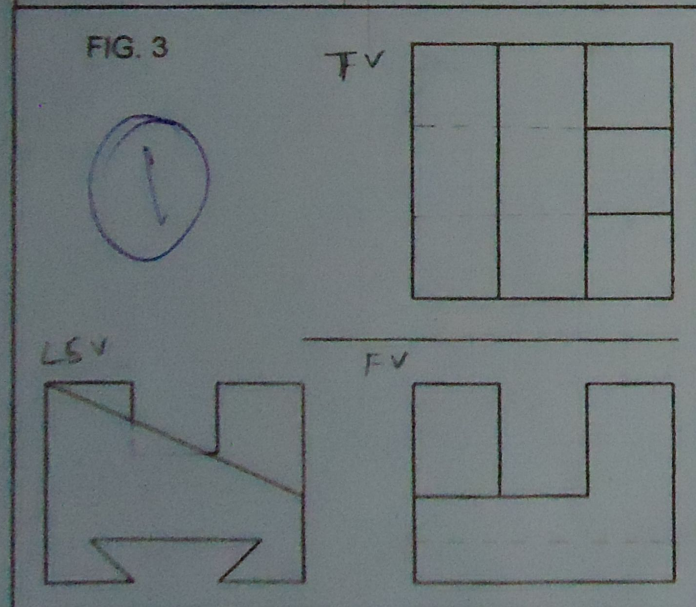
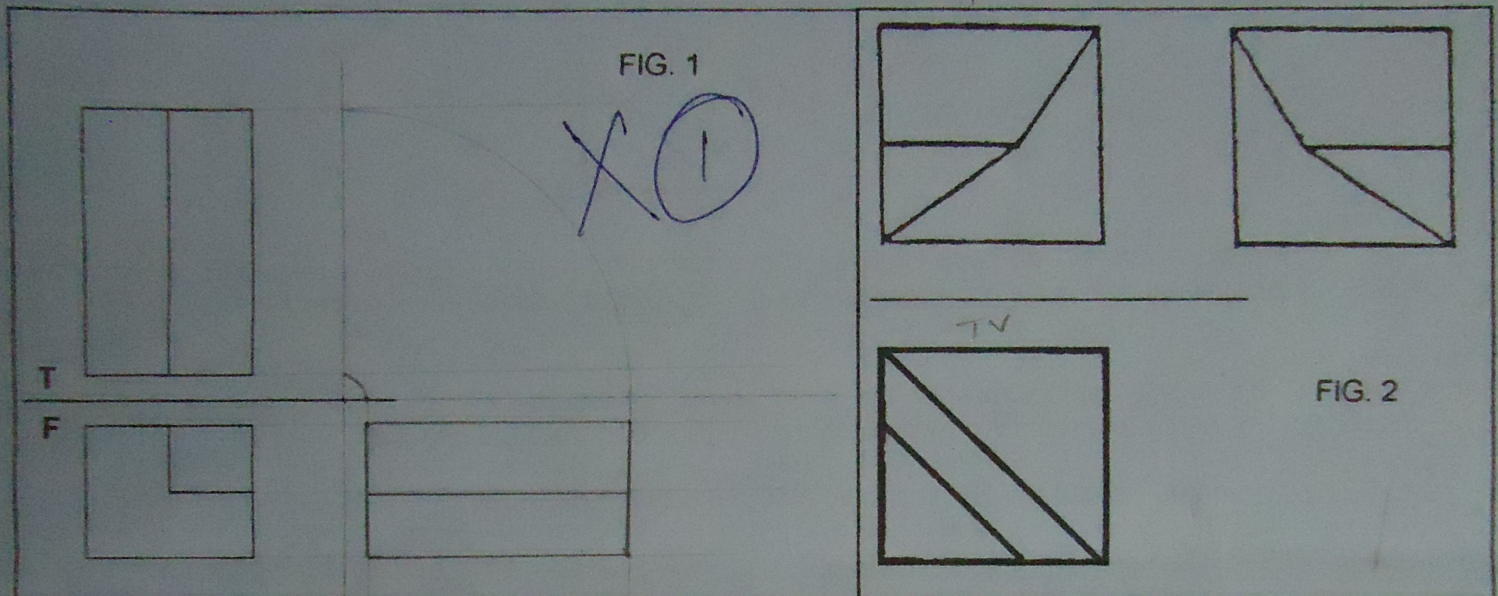
Note: Assume any missing dimension. Draw your solutions using a pencil in the space provided.

Q1. In fig.1 orthographic views of a solid are shown. Draw the corresponding side view. (3 Marks)

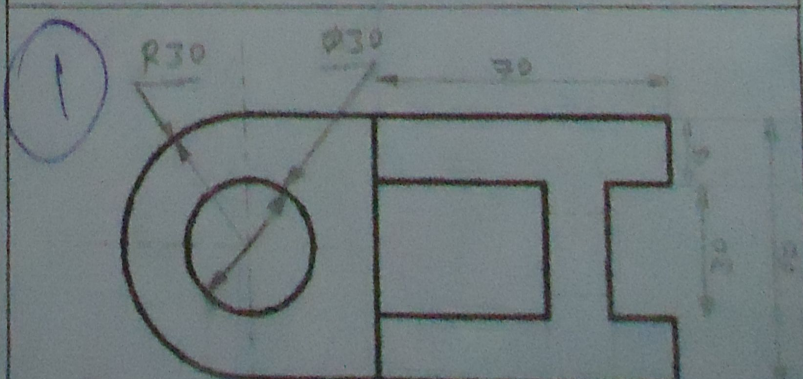
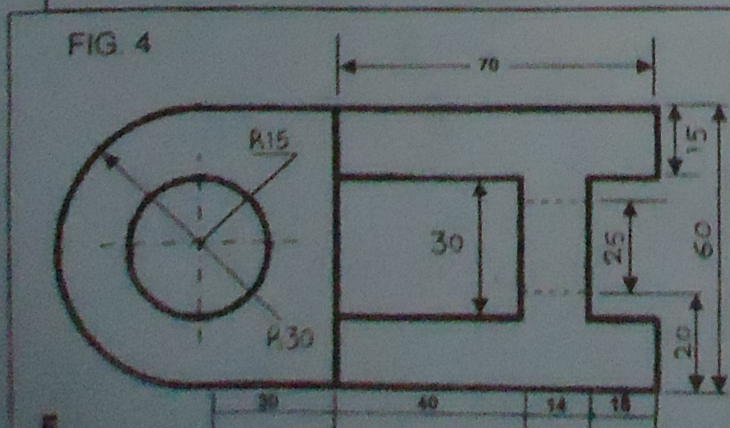
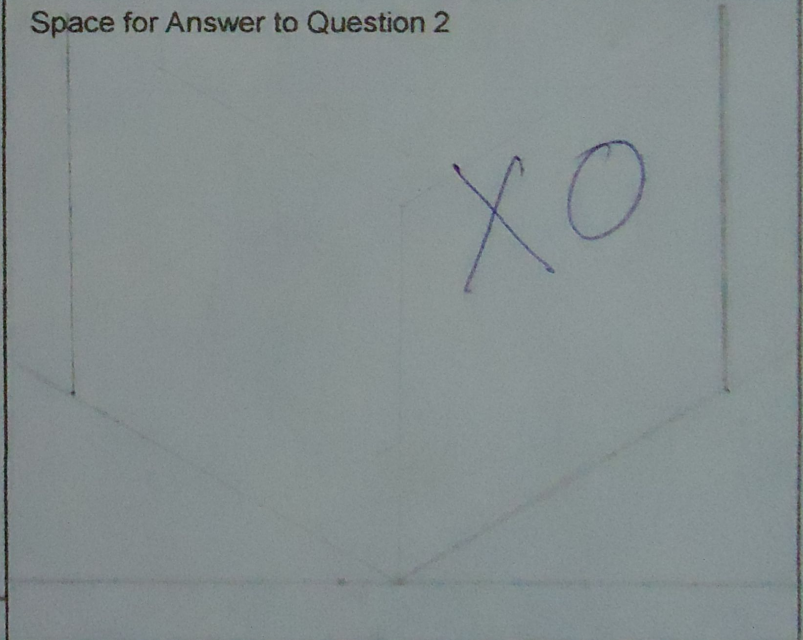
Q2. Draw the isometric view of the solid object, the three orthographic views of which are given in fig. 2. Draw the view in the space provided below. (3 Marks)

Q3. Complete the views of a solid given in fig.3 (3 Marks)

Q4. Do the Corrections in the dimensions as given in fig.4 and mark them on the blank figure given (1 Marks)



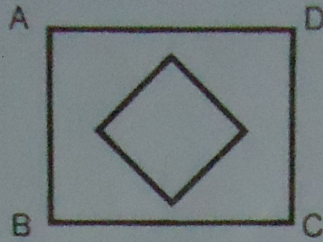
Space for Answer to Question 2



Note: Assume any missing dimension

- Q1. a) The top view of a 75mm long line measures 55mm. The line is in VP, its one end being 25mm above the HP. Draw its projections. (2 Marks)

- b) A square gasket of negligible thickness (so that it may be considered to be a flat planar surface) and of sides 30 mm each has a square cut at the centre of size 20 mm x 20 mm as shown in the figure below. Initially the gasket rests on the HP such that its edges make equal angles with the VP. Then it is tilted in a way that its surface makes an angle of 60° with the HP and the diagonal BD makes an angle of 45° with the VP, the point B being closer to VP. Draw top and front views of the gasket in the position described. (6 Marks)

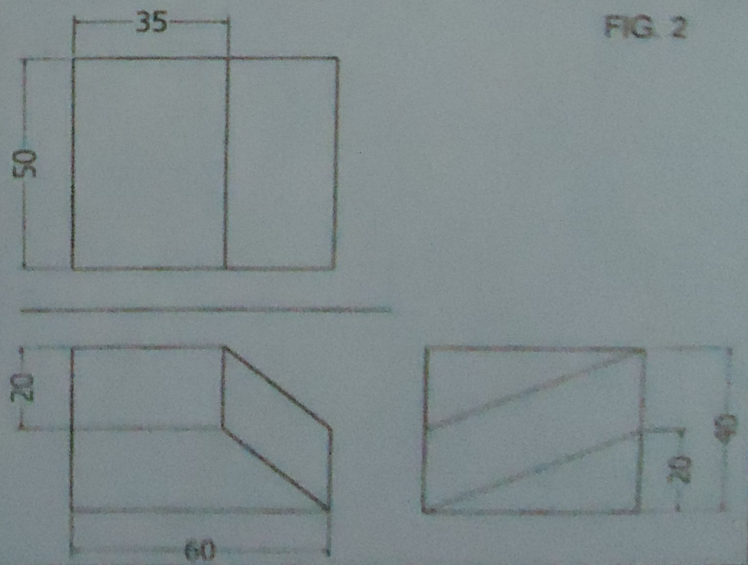
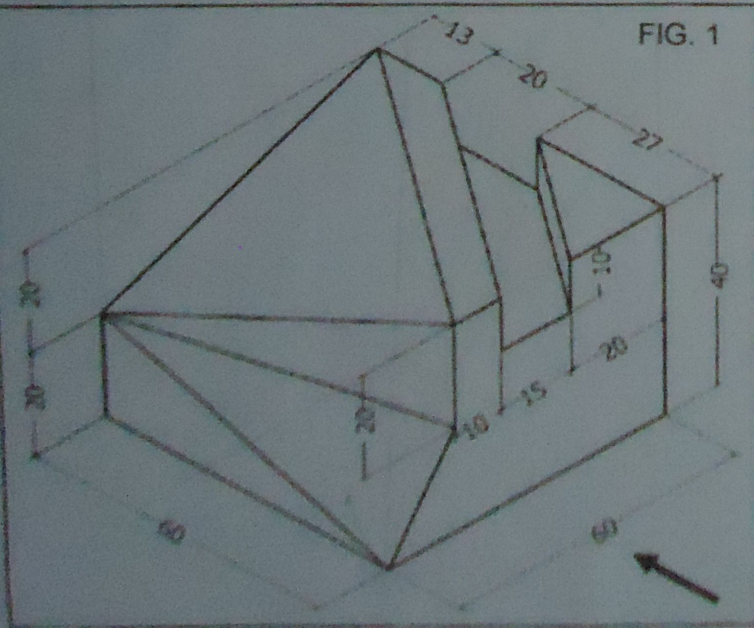


- Q2.** A pentagonal prism with base of sides 40mm each and height of 65mm is resting on a corner of its base on the ground with the slant edge parallel to the VP and inclined at 45° to the HP. Draw the front and top views. (6 Marks)

- Q3. Draw the orthographic views of the solid shown in Figure-1 in 3rd angle projection system. Put dimensions in aligned system. Arrow head in the figure shows the front direction. (8 Marks)

- Q4. Draw isometric view of the object shown by three orthographic projections shown in fig 2. (8 Marks)**

Abbreviations: HP – Horizontal plane
VP – Vertical Plane



FREEHAND SKETCHING: Minor 1

Time Allocated: 15 minutes

Name: ~~XXXXXXXXXXXX~~

Entry Number: ~~XXXXXXXXXX~~

Group: ~~XXXX~~

Date: ~~15/10/2015~~

Q) Our campus has a severe problem of managing the waste in academic area. Dogs in the academic area adds to this problem, They tumble the filled in dustbins and spread all the waste. Propose a solution to the problem so that the dustbin cannot be tumbled by dogs by either of the following.

a) Designing a new kind of dustbin

or

b) Designing an attachment to the already existing dustbin

Illustrate through sketches your solution. refer to your practice of sketching objects with the help of a cube/cuboids.

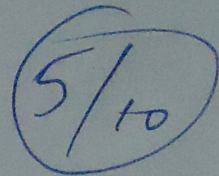
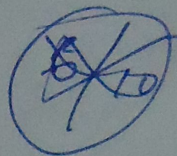
Innovative solution: 5 Marks

3

Sketching: 5 Marks

~~3~~ 2

Note: Please feel free to use both sides of this sheet.



we can make a dustbin which is closed and have a small 'x' shaped hole in mid. from the hole we can put the garbage in dustbin. the hole is not at the length less than total height

