POKHARA UNIVERSITY

Level: Bachelor   Semester: Fall   Year   : 2019
Programme: BE   Full Marks: 100
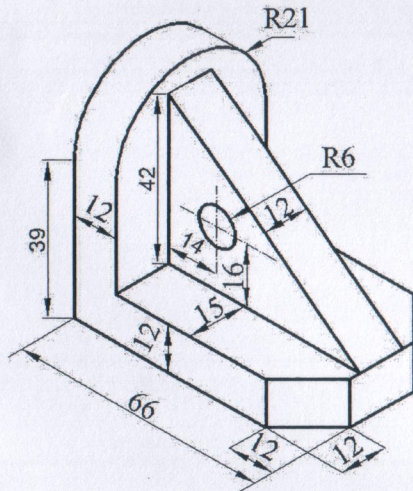Course: Engineering Drawing   Pass Marks: 45
                                           Time   : 3hrs.

Candidates are required to give their answers in their own words as far as practicable.
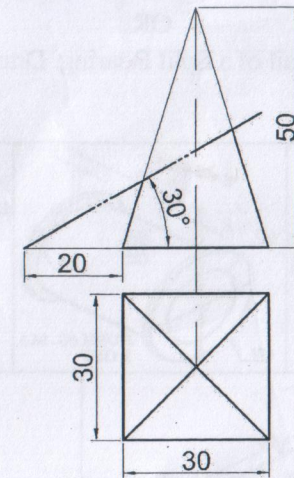
The figures in the margin indicate full marks.

Attempt all the questions.
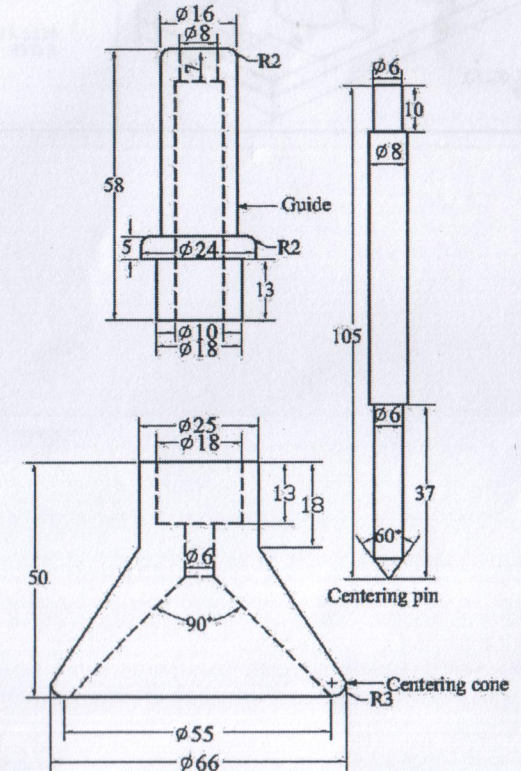
1. Draw a hyperbola, where the distance of vertex from focus is 15 mm and eccentricity is 3/2. Also draw a tangent on the hyperbola.   14

2. A straight line AB, 65 mm long, has its end A 15 mm behind VP and 10 mm below HP. It is inclined at 45° to the HP and 30° to the VP. Draw its projections when the line lies in the third quadrant.   14

3. Draw the complete orthographic views of the given object.   30

4. If a cutting plane cuts a square base pyramid in to given position, as shown in figures. Reproduced the given views of the object and draw its complete surface development.   18

5. Assembled the given parts of *Centering cone* and draw its full sectional front view.   24

OR

Figure below shows the detail of a Split Bearing. Draw the assembled front view with section.

2 × φ12
φ6
110
28
15
R30
70

CAP (C. I.)
1 OFF

R8
φ48
4
φ6
φ60
φ72

BUSH (G. M.)
1 OFF

φ48

SHAFT (M. S.)
1 OFF

2 × M12
110
70
15
R30
2 × φ16
12
250
40
70
80

BASE (C. I.)
1 OFF

20
68
20

M12 STUD (M. S.)
2 OFF

M12 STANDRAD NUT (M. S.)
2 OFF