Introduction:

Dimension is a numerical value expressed in appropriate units of measurement and indicated on drawings, using lines, symbols, notes, etc., so that all features are completely defined.

Notes:

Note Should always be written horizontally in capital letters and begin above the leader line and may end below also. Further, notes should be brief and clear and the wording should be standard in form. The standard forms of notes and the method of indication, for typical cases is shown in Fig. The meaning of the notes is given below Table.

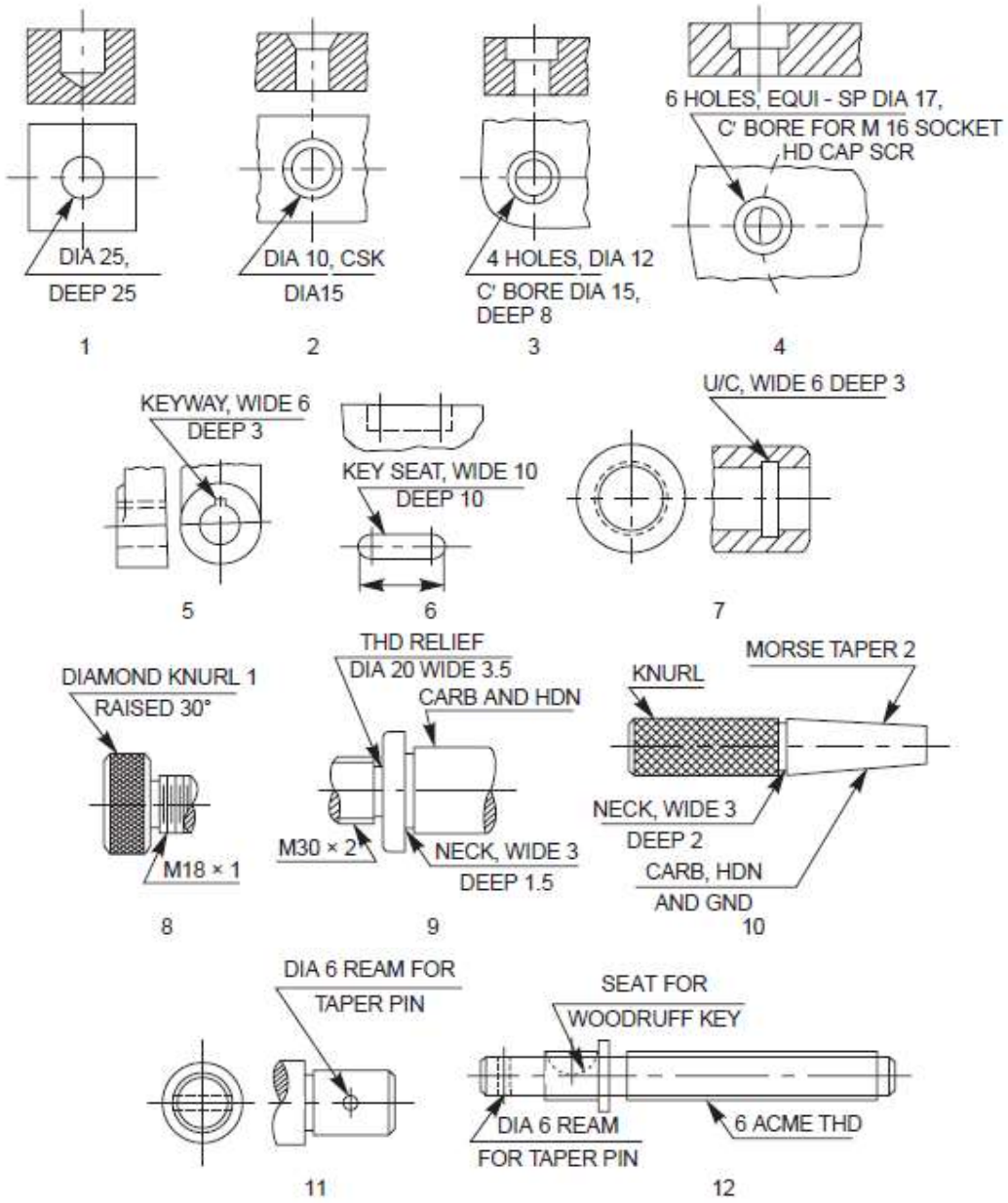

Fig. Method of indicating notes

Table shows Meaning of notes for above given

S.No.	Note	Meaning / Instruction
1.	DIA 25 DEEP 25	Drill a hole of diameter 25 mm, to a depth of 25 mm.
2.	DIA 10 CSK DIA 15	Drill a through hole of diameter 10 mm and countersink to get 15 mm on top.
3.	4 HOLES, DIA 12 C BORE DIA 15 DEEP 8	Dirll through hole of ϕ 12 mm, counterbore to a depth of 8 mm, with a ϕ 15 mm, the number of such holes being four.
4.	6 HOLES, EQUI–SP DIA 17 C BORE FOR M 16 SOCKET HD CAP SCR	Drill a through hole of ϕ 17 and counterbore to insert a socket headed cap screw of M 16. Six holes are to be made equi-spaced on the circle.
5.	KEYWAY, WIDE 6 DEEP 3	Cut a key way of 6 mm wide and 3 mm depth.
6.	KEY SEAT, WIDE 10 DEEP 10	Cut a key seat of 10 mm wide and 10 mm deep to the length shown.
7.	U/C, WIDE 6 DEEP 3	Machine an undercut of width 6 mm and dpeth 3 mm.
8.	(*a*) DIAMOND KNURL 1 RAISED 30°	Make a diamond knurl with 1 mm pitch and end chamfer of 30°.
	(*b*) M 18 × 1	Cut a metric thread of nominal diameter 18 mm and pitch 1 mm.
9.	(*a*) THD RELIEF, DIA 20 WIDE 3.5	Cut a relief for thread with a diameter of 20.8 mm and width 3.5 mm.
	(*b*) NECK, WIDE 3 DEEP 1.5	Turn an undercut of 3 mm width and 1.5 mm depth
	(*c*) CARB AND HDN	Carburise and harden.
10.	(*a*) CARB, HDN AND GND	Carburise, harden and grind.
	(*b*) MORSE TAPER 2	Morse taper No. 1 to be obtained.
11.	DIA 6 REAM FOR TAPER PIN	Drill and ream with taper reamer for a diameter of 6 mm to suit the pin specified.
12.	6 ACME THD	Cut an ACME thread of pitch 6 mm.

Assignment Questions:

1. Explain the following notes:
(*a*) 4 HOLES, EQUI-SP 12 C BORE 15 DEEP 8
(*b*) U/C WIDE 6 DEEP 3
(*c*) 6 REAM FOR TAPER PIN 6 × 50

2. What kind of notes is required to describe an object, made of a plate and represented by only one
view?

3. Explain the meaning of the following notes:
(*a*) DIA 30 DEEP 25 (*b*) KEYWAY, WIDE 8 DEEP 4
(*c*) U/C, WIDE 10 DEEP 5 (*d*) NECK, WIDE 4 DEEP 2
(*e*) MORSE No.2 (*f*) 10 ACME THD