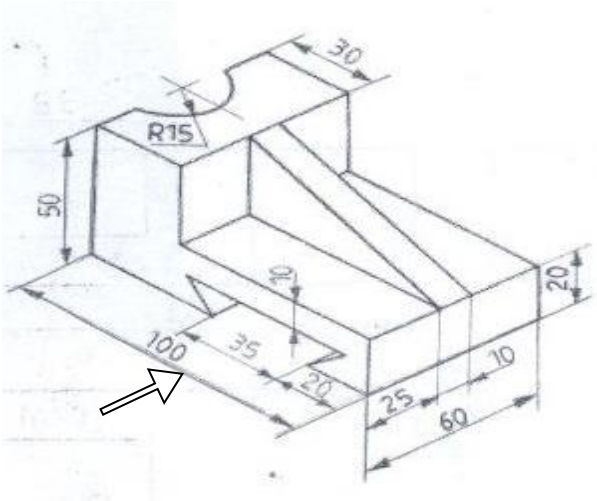
**SHRI RAMDEOBABA COLLEGE OF ENGINEERING & MANAGEMENT, NAGPUR**

# Assignment

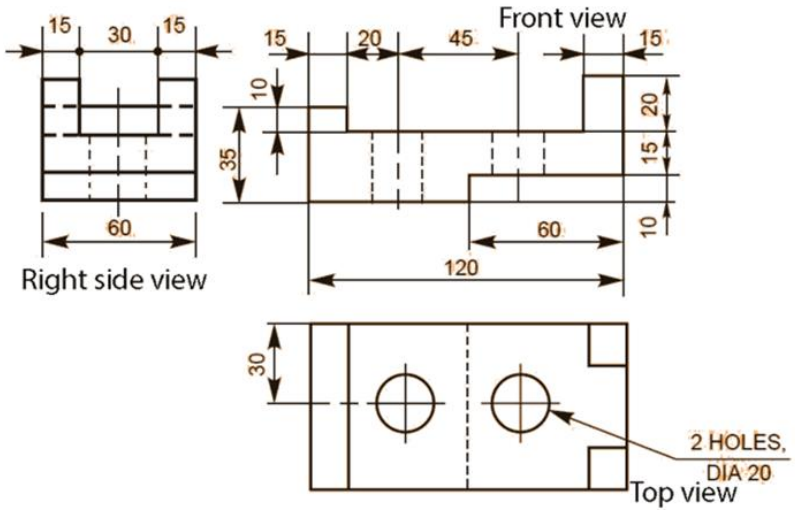
## Sub:-Engineering Graphics and Design (MET151)

## (For Sections H, I, &M only)

1. A wheel of cart 1 m in diameter rolls on a plane road in a straight line. Draw the path of a point on the rim for one complete revolution.
2. An artillery gun fires a bombshell from ground surface to a largest on the same level and 15 km away. Bomb shell achieves a maximum height of 5 km. Draw the path traced by shell. Select suitable scale.
3. The top view of a 80mm long line AB measures 55mm, While the length of its front view is 70mm. Its one end is 15mm in front of VP and is in HP. Draw its projection and determines its inclination with HP & VP.
4. The Front view and the top view of a plane of a square of 30mm sides with two sides equally inclined to xy. Draw the true shape of plane. Determine the included angle between the sides.
5. A cone base diameter 60 mm and axis 65mm long resting on its base on HP. It is cut by a vertical section plane, at an angle of $60^0$ with the reference line and is 10mm away from the top view of the axis. Draw the sectional front view and True shape of the section.
6. A cone base 75 mm diameter and axis 100 mm long has its base on the ground. A section plane parallel to one of the end generators and perpendicular to the VP, cuts the cone intersecting the axis at a point 75 mm from the base. Draw the sectional top view, true shape of the section and development of the surface.
7. A right cylinder of 40mm diameter and 60 mm height of axis is cut by a section plane inclined at $30^0$ to HP and passes 18 mm from the base along the axis. Draw the development of the truncated cylinder.
8. Draw the Front View, Top View and Side of the given object.(Fig.Not to Scale)



9. Draw the Isometric view of a given orthographic views




(ALL DIMESIONS ARE IN MM For Que 8 and 9)

Instructions:-

1. Submit the assignment in separate sketch book.
2. Last date for submission on or before **19.11.2018**
3. Assignment will not be accepted in loose sheets or pages.
4. No assignment will be accepted after the given due date for any reason.