MATHS

MATHS PRACTICAL GEOMETRY

Practical Geometry

- 1. The word 'construction' in geometry is used for drawing a correct and accurate figure from thegiven measurements.
- 2. We use the following geometrical instruments to constructfigures:
 - i. Ruler/ Straight-edge/ Scale: It is used to draw line segments and measure theirlengths.
 - ii. Compass: It is used to mark off equal lengths, but does not measure them. It is also used to draw arcs and circles.
 - iii. Divider: It is used to comparelengths.
 - iv. Set-squares: They are used to draw perpendicular and parallellines.
 - v. Protractor: It is used to measure and drawangles.
- 3. Using the ruler and compasses, the following construction can bedone:
 - i. A circle, when the length of its radius isknown.
 - ii. A line segment, if its length is given.
 - iii. A copy of a linesegment.
 - iv. A perpendicular to a line through apoint (a) on the line (b) not on theline
 - v. The perpendicular bisector of a line segment of givenlength.
 - vi. An angle of a given measure using protractor.
 - vii. A copy of anangle.
 - viii. The bisector of a given angle.
 - ix. Some angles of special measures suchas: (a) 90° (b) 45° (c) 60° (d) 30° (e) 120° (f) 135°