I Q R A   N A T I O N A L   U N I V E R S I T Y , P E S H A W A R

DEPARTMENT OF CIVIL ENGINEERING

FINAL TERM EXAMINATION

Subject: Engineering Drawing for Civil Engineers   **Duration:**   4 hrs.
Instructor: Engr Khurshid Alam   **Total Marks:**   **50**
Course code: CE-113

Note: Attempt all questions. Manage your time properly. Understanding question paper is the part of examination. Draw diagrams wherever necessary. Please refer to your notes for assistance copy from internet will marked less.

No. (01)   *(5+5)*

    a) Define sketching or freehand. Briefly describe materials essential for sketching.
    b) Elaborate how to sketch circles and arcs with freehand.

No. (02)   *(5+5)*

    a) Define sketching procedure. Briefly describe steps involved in sketching.
    b) Define conics. Write down the names of conics sections.

No. (03)   *(5+5)*

    a) Define Ellipse and major axis of ellipse.
    b) Define Parabola. Briefly describe the uses of parabola.

No. (04)   *(4+4)*

    a) Define hyperbola. Write down the methods for drawing hyperbola.
    b) What is meant by projection? Define projectors and plane of projection

No. (05)   *(5+7)*

    a) Define pictorial projection. Briefly describe the types of pictorial projection.
    b) An equilateral triangular prism of 1.5" sides and 2.5" height rests on one of its edges in horizontal plane with its axis perpendicular to vertical plane and one rectangular face making an angle of 30º with horizontal plane. Draw its Plan, Front Elevation, Left view.

THE END