S.B. Roll No....................................

ENGINEERING DRAWING –II
2nd Exam/CIVIL/ELECTRICAL/AUTO/2454/2551/5426/May'16

Duration: 3 hrs   **M. Marks 100**

SECTION –A

Q.No1. Fill in the blanks/True/False.   **1.5x10=15**

   a. The thickness of plate is calculated by using Empirical formula -------- in case of Riveted Joints.
   b. In B.S.W thread, thread angle is 55^0 **(T/F)**
   c. Knuckle thread is modification of square thread. **(T/F)**
   d. Width across flats is given by W=---------- for Hexagonal Nut.
   e. Castle Nut is a permanent fastner. **(T/F)**
   f. Spring washers are used in Automobiles and other moving parts where there is No vibrations. **(T/F)**.
   g. A key is a flat wedge piece of rectangular Cross-section of uniform thickness, inserted perpendicular to axial direction. **(T/F)**
   h. A cotter is a piece of metal inserted between two parts parallel to axial direction to prevent relative motion. **(T/F)**
   i. Left hand thread is one which advances into the nut when turned in an Anticlockwise direction. **(T/F)**.
   j. Calculate the thickness of Cover plate in case of Double Cover Butt joint when dia of Rivet is 30mm.

SECTION –B

Do any five questions.   **5x7=35**
Q.No2 Draw the protionate view of the following
   i. B.S.W thread
   ii. Knuckle thread
   iii. Square thread
   iv. Lock Nut
   v. Fullering
   vi. STUD

SECTION –C

Note :Do any two Questions.   **25x2=50**

Q3.   Draw Elevation, Side and Plan of a Hexagonal, Headed Bolt with washer and Hexagonal Nut. Take dia of Bolt = 20mm.   **10+6+9=25**

Q4.   Draw the Sectional Elevation and Plan of Double Cover, Single Riveted, Butt Joint. Take dia of Rivet =18mm.   **12+13=25**

Q5.   Draw the Full sectional Elevation, Side and plan of assembled Joint whose details are shown in figure No.1.   **9+8+8=25**

Figure Attached.

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Fig. No1 . Detail of Parts showing Socket, Spigot and Cotter in Isometric Projection