Seat No.: _____ Enrolment No._____

GUJARAT TECHNOLOGICAL UNIVERSITY

DIPLOMA ARCHITECTURE – SEMESTER – I • EXAMINATION – WINTER - 2016

Subject Code: 3316202 **Date: 30-12 - 2016**

Subject Name: Technical Drawing- I

Time: 10:30 AM TO 01:30 PM **Total Marks: 40**

Instructions:

1. **Attempt all questions.**
2. **Make Suitable assumptions wherever necessary.**
3. **Figures to the right indicate full marks.**

Q 1. (a) Construct an equilateral triangle of given altitude 60 mm. (04)

(b) Draw a regular pentagon with given one side as 50 mm. (04)

Q 2. (a) Divide a line of 130 mm in to 10 equal parts. (03)

(b) Draw a parallel line. (PQ is the given line and S is any given point) (03)

Q 3. Write the given paragraph in 7 mm thickness. (05)

Dame Zaha Mohammad Hadid, (31 October 1950 – 31 March 2016) was an Iraqi-born British architect. She was the first woman to receive the PRITZKER ARCITECTURE PRIZE, in 2004.She received the STIRLING PRIZE in 2010 and 2011. In 2012, she was created a Dame Commander of the Order of the British Empire and in 2015 she became the first woman to be awarded the RIBA GOLD MEDAL in her own right. A pioneer of parametricism and an icon of neo-futurism, with a formidable personality, her acclaimed work and ground-breaking forms include the aquatic center for the London 2012 Olympics, the Broad Art Museum in the U.S., and the Guangzhou Opera House in China.

Q 4. Draft hatch patterns in 50 x 80 mm box of the following. (Any Three) (03)

1) Wood 2) Brick 3) Metal 4) Concrete

Q 5. Draw an angle of 15°. (02)

Q 6. Draw orthographic projections of the following. (08)

(a) 75 mm line parallel to H.P., 35 mm above H.P., makes an angle of 35° to V.P. and it is 20 mm in front of V.P.

(b) A triangular plane all edges 40 mm, perpendicular to V.P and parallel to H.P. One of its vertices is parallel to V.P, 30 mm away from V.P and 25 mm above H.P.

Q 7. (a) Draw an isometric view of a cone with a 50 mm diameter and height 70 mm. (04)

(b) Draw an axonometric view of a pyramid of base 60 x 60 mm and 80 mm height (04)

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