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## 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

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

Q 2. (a) Divide a line of 130 mm in to 10 equal parts.
(b) Draw a parallel line. ( PQ is the given line and S is any given point)

Q 3. Write the given paragraph in 7 mm thickness.
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 $50 \times 80 \mathrm{~mm}$ box of the following. (Any Three)

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

Q 5. Draw an angle of $15^{\circ}$.
Q 6. Draw orthographic projections of the following.
(a) 75 mm line parallel to H.P., 35 mm above H.P., makes an angle of $35^{\circ}$ 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 .
(b) Draw an axonometric view of a pyramid of base $60 \times 60 \mathrm{~mm}$ and 80 mm height

