Total Printed Pages : 2

Roll No. .....

E-930

B. E. II Semester (Main) Examination, May – 2019

ENGINEERING GRAPHICS & DESIGN (BME-101/BME-201)

Branch : BE

(Civil & Mech.)

Time : Three Hours] *[Maximum Marks : 60*

Note : Attempt *all* questions from *Section – A, four* questions from *Section – B* and *three* questions from *Section – C.*

SECTION – A [Marks : 2 × 5 = 10

1. (i) Drawing Board of Standard size ..... mm × ..... mm.
   (ii) Drawing Sheet A_2 = ... mm × ..... mm.
   (iii) What is the use mini drafter ?
   (iv) Size of title block.
   (v) How dimensions are expressed in drawings ?

SECTION – B [Marks : 5 × 4 = 20

2. Write in free hand the following in small letters :

   A quick brown fox jumps over the lazy dog.

3. What are the important tools and accessories used to prepare engineering drawings.

4. Draw a regular pentagon of side 80 mm.

5. Point A is 30 mm above HP and 45 mm infront of VP. Draw its front view and top view.

6. A line AB 25 mm long is parallel to VP and perpendicular to HP. Point A is 35 mm above HP and 20 mm infront of VP. Point B is 10 mm above HP. Draw the protection of line AB.

SECTION – C [Marks : 10 × 3 = 30

7. A square lamina having diagonals 55 mm is resting on HP such that its surface is perpendicular to both HP and VP one of its side is inclined at 30° to HP. Draw its left side view top and front view.

P. T. O.

8. A cone of 45 mm diameter and altitude 60 mm is resting with its base on HP. A sectional plane parallel to VP cuts the cone at a distance of 15 mm from its centre. Draw the top and sectional front view.

9. A regular hexagonal pyramid of base 50 mm and height 65 mm rests with its base on HP. A sectional plane perpendicular to VP and inclined at 30° to HP bisects the axis of the pyramid. Draw its development of its lateral surface.

10. A cone of base 60 mm and height 80 mm rests with its base on HP. A sectional plane inclined at 45° to HP bisects the axis of the cone. Draw its development of the lateral surface.
