SAMPLE QUESTION PAPER

TERM 2 (2021-22)

XII

ENGINEERING GRAPHICS (046)

MARKING SCHEME

Maximum Marks: 35

Distribution of Marks

1. **COLLAR STUD**
   - (i) Front view with horizontal axis. 7
   - (ii) Side view. 3
   - (iii) Standard dimensions. 2

2. **SLEEVE AND COTTER JOINT (Assembly)**
   - (i) **FRONT VIEW UPPER HALF IN SECTION:** 15
     - (a) Drawing the upper half of sleeve with clearance and with hatching lines and drawing the lower half of sleeve. 5
     - (b) Drawing both the cotters in upper half and in lower half. 4
     - (c) Drawing both the rods with clearance and conventional ends with hatching lines. 6
   - (ii) **SIDE VIEW LOOKING FROM THE LEFT END:** 7
     - (a) Drawing three circles and conventional hatching at the end of rod. 4
     - (b) Drawing cotter. 2½
     - (c) Drawing cutting plane. ½

DETAILS:
   - (a) Printing title. 6
   - (b) Scale used. 1
   - (c) Projection symbol. 1
   - (d) Six important dimensions. 3
FLANGE AND PIPE JOINT (Disassembly)

(i) FLANGE B
   (a) FRONT VIEW UPPER HALF IN SECTION: 8
     (i) Drawing the upper half of flange with hole of dia 12mm. 4
     (ii) Drawing the lower half of flange. 2
     (iii) Hatching lines 2
   (b) RIGHT HAND SIDE VIEW: 8
      (i) Drawing four circles and one p.c.d. circle. 4 1/2
      (ii) Drawing four circles of dia 12 mm. 2
      (iii) Hatching lines at the conventional end of pipe. 1
      (iv) Cutting plane. 1/2

(ii) GASKET
   (a) FRONT VIEW: 3
      (i) Rectangle with two horizontal lines of internal dia of 44mm. 2
      (ii) Shaded portion showing rubber material of gasket. 1
   (b) LEFT SIDE VIEW: 3
      (i) Drawing both circles. 2 1/2
      (ii) Cutting plane. 1/2

DETAILS: 6
   (a) Printing titles. 1
   (b) Scale used. 1
   (c) Projection symbol. 1
   (d) Six important dimensions. 3
FLANGE PIPE JOINT DIS ASSEMBLY