Technical Graphics
Course Code: TEG315110

2014 Assessment Report

Question 1

No candidates completed this question correctly, most had the process almost correct but did not construct the correct centre points for the isometric arcs to swing point P from location to location. Several drew independent views which could not trace the path of point P. Some freehanded the path instead.

Question 2

Many regular pentagons were drawn correctly but only a few actually completed the area enlargement fully. Several constructed hexagons or octagons instead of the pentagon. Some attempts were not an area increase but were increases in size, proportion and side length.

Question 3

The irregular pentagon involute was completed correctly by only a few, a large number completed the involute in an anti clockwise direction instead of the required clockwise.

Question 4

Very few completed this question correctly, some provided 3D views instead. Several candidates were able to construct the ellipse but not the parabola. Some candidates freehand sketched a 3D view. Only a few candidates were able to complete the ellipse correctly.

Question 5

This question was answered by most candidates, and most candidates were able to transfer the first part of the drawing correctly. Quite a few divided up the curve incorrectly, only a few correctly solved the question.

Question 6

Only one candidate correctly completed this question, several constructed the displacement diagram and the spiral correctly but did not plot the path of point P.
**Question 7**

This question was attempted by only one or two candidates, no candidate completed the answer although several transferred the question correctly. No candidate attempted the developments.

**Question 8**

Only one candidate attempted this question, transferred the question correctly but made no further attempt on solving the problem.

**Question 9**

Most candidates attempted this question and in most cases produced an adequate solution in the freehand drawing. Some candidates did not freehand draw the part. One candidate produced a high level answer.

**Question 10**

Most candidates transferred and reproduced the question, many creating the funicular diagram correctly but few went on to determine the force in the beam X. Many were able to determine the beam was under compression.
TASMANIAN QUALIFICATIONS AUTHORITY

TEG315110 Technical Graphics

ASSESSMENT PANEL REPORT

Award Distribution

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Student Distribution (SA or better)

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QUESTION 12

[Diagram of a geometric figure with labeled points A and B, and dimensions 40 and 104. Scale: 1:1]
QUESTION 6.
Note that there is not a solution for Q 9 due to the nature of the question.
QUESTION 10.

SCALE 1:100

Funicular Polygon

R1 = 20kN 4000 4000 4000 4000 R2

30kN

REAL X IS UNDER COMPRESSION