

**PROVINCIAL ASSESSMENT
March 2017**

GRADE 10

ENGINEERING GRAPHICS AND DESIGN

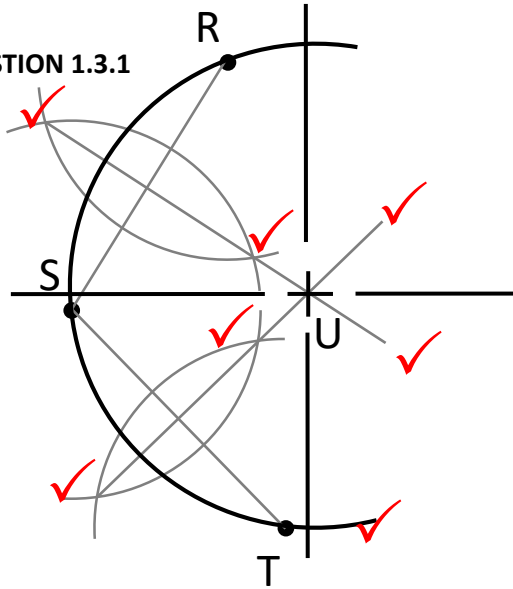
Initials & surname: MEMORANDUM

FOR OFFICE USE ONLY			
Marks		Moderator	
Question 1			
Question 2			
Total	50	50	

INSTRUCTIONS AND INFORMATION

- Learners have 1 hour to complete this paper.
- Answer all the questions
- ALL drawings must be drawn to scale 1:1, unless stated otherwise.
- ALL questions must be answered on the QUESTION PAPER as instructed.
- ALL the pages must be stapled in numeric sequence, irrespective of whether the question was attempted or not.
- Time management is essential in order to complete all the questions.
- Print your name and surname as well as the grade in the space provided on each page.
- ALL answers must be drawn accurately and neatly.
- ALL necessary construction and projection lines must be shown.
- Plan each drawing carefully from the given position, which is indicated on the diagram sheets.
- Any details or dimensions not given must be assumed in good proportion.

QUESTION 1.3.1



QUESTION 1

Use this given page and answer the following questions:

- 1.1 Prepare this page with a frame. ✓ 4 ÷ 2 = (2)
- 1.2 Draw a title block and show your initials and surname, grade, date and question number. All lettering should be according to SANS 10111, 4 mm in height. ✓ (4)
- 1.3 **By means of construction, draw on the given diagram sheet the following:**
- 1.3.1 A common arc including all three points R, S & T. ✓ (7)
- 1.3.2 A line from point P, 90° on line segment DE. ✓ (4)
- 1.3.3 An inscribed circle to an irregular triangle ABC. ● (9)
- 1.3.4 Divide line segment KL into FOUR equal parts. ● (9)

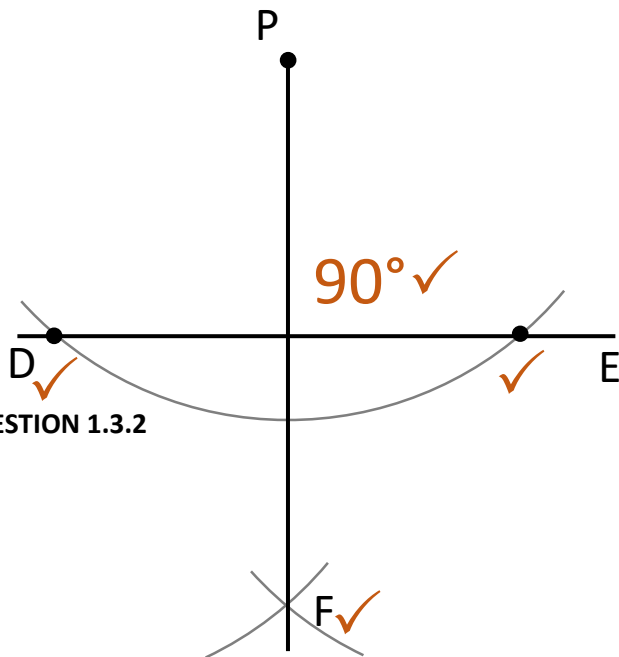
Note: Name each intersection point determined.

Show all construction lines.

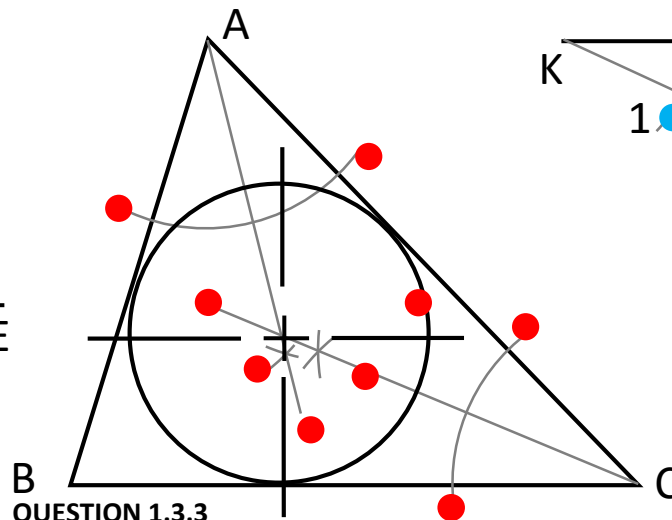


Sub-total [35]

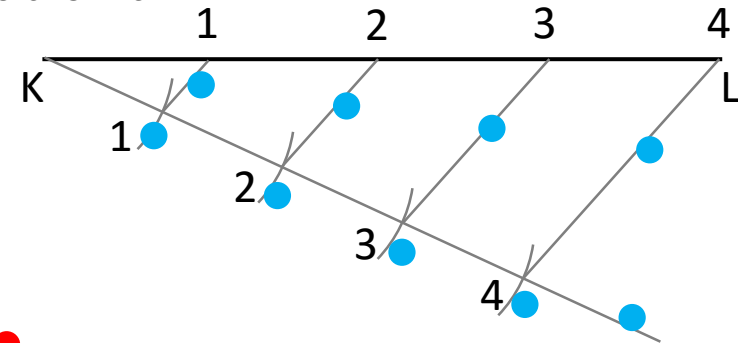
QUESTION 1.3.2



QUESTION 1.3.3



QUESTION 1.3.4



INITIALS & SURNAME (4mm)

DATE ✓

GRD ✓

QUEST 2 ✓