ENGINEERING GRAPHICS AND DESIGN P2
FEBRUARY/MARCH 2018
MARKING GUIDELINES

MARKS: 200

These marking guidelines consists of 7 pages.
## ANSWERS

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<td>SQUARE ON A SHAFT OR FLAT FACE ON A CYLINDER</td>
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**TOTAL 28**

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**ANSWER 21:** Projection symbol

- FREEHAND

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**PAPER 2 QUESTION 1**
GRADE 12
Feb.-Mar. 2018
MARKING GUIDELINES
2 CONSTRUCTION
- CIRCLE DIVISION 1
- ROTATION DIRECTIONS 1
- BC + CD INTERSECTIONS 2

4 CURVE QUALITY ✅

CURVE THROUGH C

1 CENTRE LINES = ½

ASSESSMENT CRITERIA 2.1

1 GIVEN 4
2 CONSTRUCTION 4
3 POINTS 6
4 CURVE QUALITY 2

SUBTOTAL 16

PAPER 2 QUESTION 2.1
GRADE 12
Feb.-Mar. 2018
MARKING GUIDELINES
2 CONSTRUCTION
- AUX. CIRCLES 1
- CIRCLE DIVISION 1
- PITCH + 12 DIVISIONS 2
- HORIZONTAL PROJECTION 1
- VERTICAL PROJECTION 1
- DIRECTION 2 8

5 CURVE QUALITY
- OUTER CURVE 2
- INNER CURVE 1 3

ASSESSMENT CRITERIA 2.2
1  GIVEN + CL  1
2  CONSTRUCTION  8
3  OUTSIDE HELIX  9  2
4  INSIDE HELIX + SHAFT  3  4
5  CURVE QUALITY  3

SUBTOTAL 2.2  25

PAPER 2 QUESTION 2.2
GRADE 12
Feb.-Mar. 2018
MARKING GUIDELINES
ASSESSMENT CRITERIA

SECTIONAL FRONT VIEW

<table>
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<th>DESCRIPTION</th>
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<td>1</td>
<td>BASE</td>
<td>13</td>
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<tr>
<td>2</td>
<td>SHAFT</td>
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<td>ADJUSTING COLLAR</td>
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<td>M24 NUT</td>
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<td>6</td>
<td>FORK</td>
<td>$9\frac{1}{2}$</td>
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<td>7</td>
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SUBTOTAL 59

PAPER 2 QUESTION 4 SFV
GRADE 12
Feb.-Mar. 2018
MARKING GUIDELINES
SC = SANS CONVENTION FOR SYMMETRY, I.E. NOTHING DRAWN ON THE RIGHT

☑ FOR ANY TWO BALLS

ASSESSMENT CRITERIA

RIGHT VIEW

1. BASE 5
2. BEARING 5
3. ADJUSTING COLLAR 12
4. M24 NUT 2
5. FORK 3
6. PULLEY 1

GENERAL

1. CENTRE LINES 4
2. ASSEMBLY 7
3. CONVENTION 3
4. CUTTING PLANE 3

SUBTOTAL 17
TOTAL 94

PAPER 2 QUESTION 4 RV
GRADE 12
Feb.-Mar. 2018
MARKING GUIDELINES

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