

QUESTION 2a

LOCI
HELIX

Figure 1 shows a picture of a typical **spring** application. You are given an incomplete front view and an incomplete top view of a circular (coil) spring. Project and draw the spring with the following specifications:

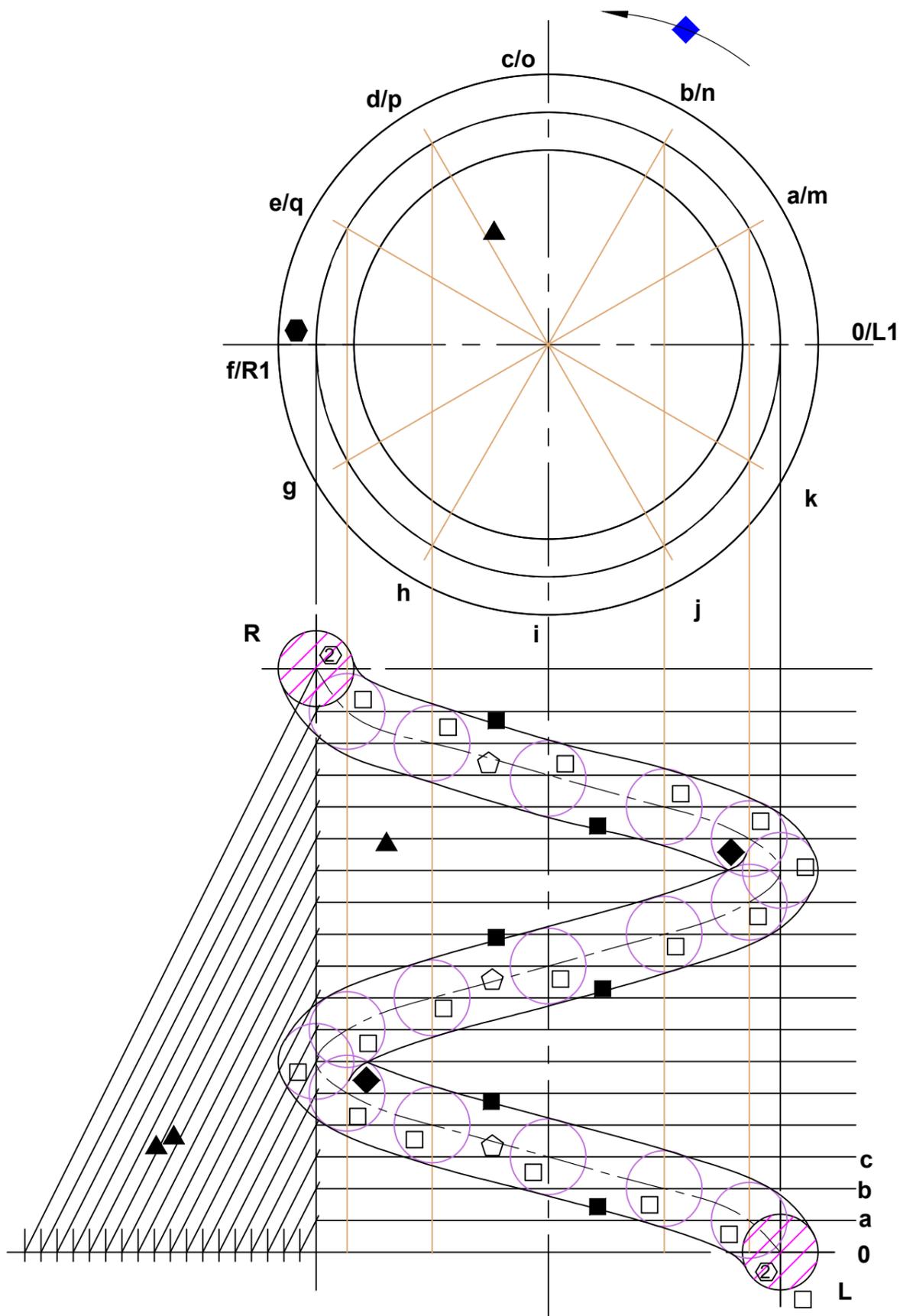
- The direction of turn is **anti-clockwise** (Right Hand).
- The spring **starts at point L** and **ends at point R** in **1 turns**.
- Show all **constructions**.
- Show the **centre line** of the spring.

ASSESSMENT CRITERIA

• Set-up	4
• Plot Points	9
• Locus	6
• Hatching	4
• Direction	3
• Centre Line of locus	3
• Top View	1
• LW / ACC / PRE	-2



FIGURE 1



Setup	▲	4
Plot/Circles	□	18/2
Locus	■	6
Hatching	⬡	4
Direction	◆	3
Centerline	⬠	3
Top view	⬢	1
Lw/Acc/Pr		-2

SET	<input type="checkbox"/>
PTS	<input type="checkbox"/>
LOC	<input type="checkbox"/>
HAT	<input type="checkbox"/>
DIRE	<input type="checkbox"/>
C/L	<input type="checkbox"/>
TV	<input type="checkbox"/>
L/N/P	<input type="checkbox"/>

30 MARKS

EXAMINATION NUMBER

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ANSWER SHEET 2a