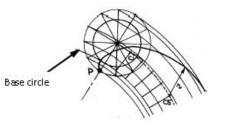
SHEET 1

PENANG SANGAM HIGH SCHOOL **YEAR 12 TECHNICAL DRAWING**

WORKSHEET - 3

MULTIPLE CHOICES

- 1. Which of the following curves has both an equal movement towards or away from a pole and an increase in its vector angle?
 - A. Helix.
 - B. Involute.
 - C. Logarithmic spiral.
 - D. Archemedian spiral
- 2. The curve labelled P is known as:
 - A. A superior trochoid.
 - B. A superior Epitrochoid.
 - C. An inferior epitrochoid.
 - D. A superior hypotrochoid.
- 3. Which of the following statements **best** describes the motion of a cam known as **Dwell**?
 - A. The cam is at rest.
 - B. The cam ceases rotation.
 - C. The follower ceases to rotate with the cam.
 - D. The follower ceases to move in a straight line



DESIGN

Problem:

Domestic rubbish packed in garbage bags placed alongside the road is not hygienic. It becomes a hazard when the rubbish trucks do not turn up on time

Brief:

Design a garbage stand for ease of collection and prevention from stray animals.

Specification: The garbage stand should be:

- 1. safe from stray animals;
- 2. made from combination of materials;
- 3. be stable and safely fixed on the ground;
- 4. Have a storage capacity to store at least 5 garbage bags.

Requirements:

(a) Produce two freehand pictorial sketches of the garbage stand.

(b) Evaluate each sketch on the following criteria:

(i) Materials (ii) Functionality

(c) Explain with the help of sketches how the garbage stand will be fixed to the ground.

(d) Draw a pencil-rendered or a colour-rendered pictorial sketch of the final solution

SHEET 2

(a) Possible Solution 1 (4 marks)					Possible Solution 2 (4					(4 marks)	(c)	(c)										(3 1	marks)	
												1	Overall neatness at	nd clarity	of sketch(es)		1		3	Evidence sh	awa	1		
												2	Relevant explanation	ions and b	abels given		1							
												(d)											(5 1	marks)
1	Pictorial 1 Crate/Box used	:	3 Correct labels	1		1 Pictor Crate	ial Box used	1	3 6	orrect labels	1													
	Correct line 1 work		4 Correct proportion	1		2 Corre work	ct line .	1	4 Co pn	orrect	1													
(b)	Criteria	Possible	Solution 1		Ç	2 marks)	Possible	Solution 2	2		(2 marks)													
	Materials																							
							-																	
	Functionality																							
												1	Overall neatness and clarity of sketch	1		3	Correct rendering shown	1		5	Correct line	e work	1	
							1						Correct labels	1		4	Correct proportion	1						

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