



eduresourcza.com

2018
RAMOSUDI COMMON
ASSESSMENT

GRADE 9

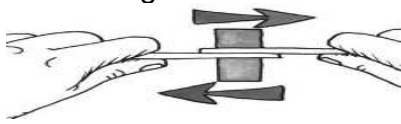
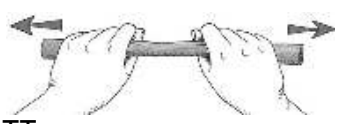
TECHNOLOGY MEMORANDARM
JUNE 2018

Marks:80

This memorandum consists of 5pages.



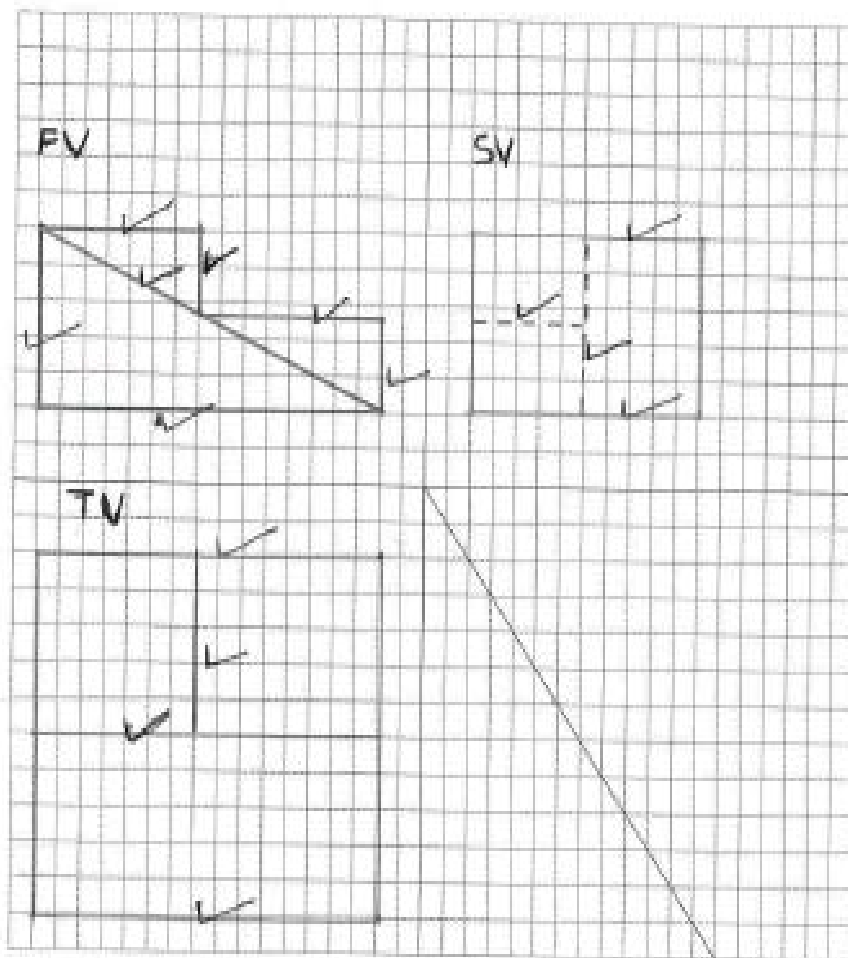
QUESTION	ANSWER	MARKS
1.	SECTION A	1
1.1	C 7	1
1.2	A 7	1
1.3	D 7	1
1.4	D 7	1
1.5	B 7	1
		[5]
2.		
2.1	True 7	1
2.2	False 7	1
2.3	True 7	1
2.4	True 7	1
2.5	False 7	1
		[5]
3.		
3.1	E 7	1
3.2	F 7	1
3.3	B 7	1
3.4	A 7	1
3.5	D 7	1
		[5]
	TOTAL SECTION A	[15]
4	SECTION B	
4.1	People might drown while crossing a dangerous river. 77 People might be killed by crocodiles. (any acceptable answer)	2
4.2	I am going to design and make a bridge 7 for people to cross over the river. 7	2
4.3	a. Static force 7 b. Dynamic force 7	2
4.4	a. Steel(I-beam, rods) 7 can rust, water resistant, strong 7 b. Concrete 7 dense, strong, water resistant 7 c. Wires 7 bend easily, water resistant d. Wood- light in mass, it can be shaped (Any suitable material)	4
4.5	a. Safety rail 7 b. Ramp for wheelchairs 7 c. Signage d. Sufficient lighting (any other relevant answer)	2
4.6	i compression 	8

		ii. shearing 							
		iii tension 							
		iv. torsion 							
			[20]						
5	5.1	Gear ratio = _____ = — = 5:1	4						
	5.2	Decreasing Gear B (driven) rotates once when gear A (driver) rotates five times	2						
	5.3	<table><tr><td>Input</td><td>Process</td><td>Output</td></tr><tr><td> Gear B rotates in one direction </td><td> gears are meshed and force is transferred from Gear B to Gear A </td><td> Gear A rotates in the opposite direction </td></tr></table>	Input	Process	Output	Gear B rotates in one direction	gears are meshed and force is transferred from Gear B to Gear A	Gear A rotates in the opposite direction	6
Input	Process	Output							
Gear B rotates in one direction	gears are meshed and force is transferred from Gear B to Gear A	Gear A rotates in the opposite direction							
	5.4	Gear B will rotate five times	2						
	5.5	Anticlockwise	1						
	5.6	An idler gear must be placed between the driver and driven	2						
	5.7	a. egg beater b. hand drill c. motor car (gearbox, steering rack) d. shifting spanner e. analog watch (any other relevant answer)	3						
		TOTAL SECTION B	40						

Memorandum

NAME OF LEARNER: MEMOCLASS: 9.

QUESTION 6 (ANSWER SHEET)



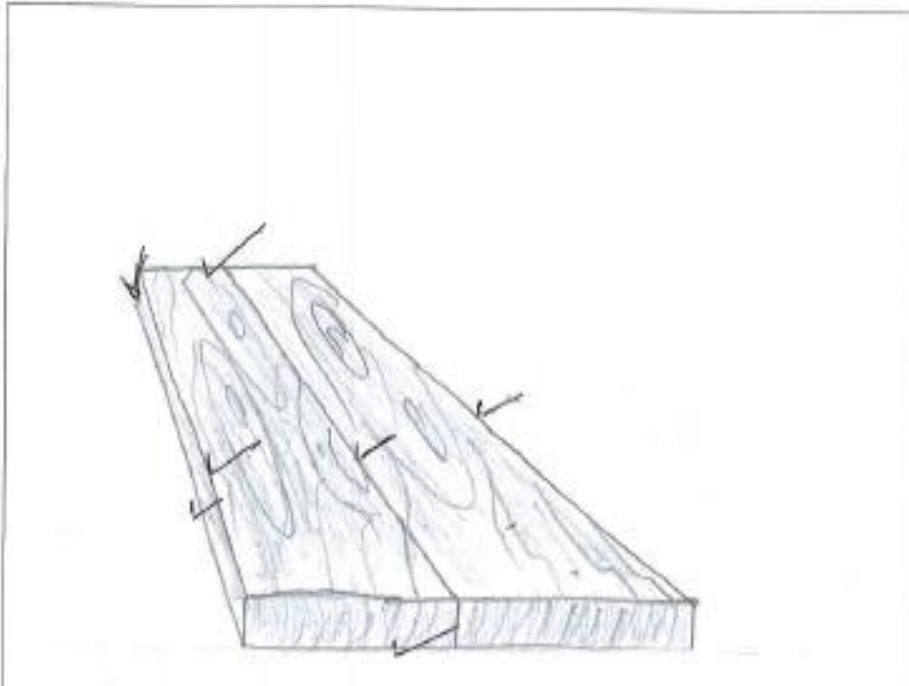
NB. Ticks should be used to show where marks are allocated as shown above.

[15]

Memorandum

NAME OF LEARNER: MEMOCLASS: 9

QUESTION 7 (ANSWER SHEET)



Single point drawing = 7 marks

Shading & texture = 2 marks

Wood texture = 1 mark

The vanishing point may be placed at any position

[10]

GRAND TOTAL = [80]