

# MECHANICAL TECHNOLOGY SPECIALISATION

## GRADE 10 & 11 NOVEMBER 2021 EXAMINATION TOPIC TOTAL GUIDELINE

### AUTOMOTIVE

<b>Final Examination – GRADE 10</b>			
<b>Q. NO</b>	<b>CONTENT</b>	<b>Tot</b>	<b>Time</b>
<b>Section A - Generic</b>			
1	Multiple Choice	14	10
2	Safety	10	9
3	Tools	12	10
4	Joining Methods	12	10
5	Forces	27	25
6	Maintenance	16	15
7	Materials	12	10
8	Engines	20	20
<b>Section B - Specific</b>			
9	Multiple Choice	6	8
10	Engines	24	20
11	Terminology	20	18
12	Maintenance	10	10
13	Systems and Control	17	15
<b>TOTAL</b>		<b>200</b>	<b>180</b>

<b>Final Examination – GRADE 11</b>			
<b>Q. NO</b>	<b>CONTENT</b>	<b>Tot</b>	<b>Time</b>
<b>Section A - Generic</b>			
1	Multiple Choice	8	8
2	Safety	10	9
3	Tools	8	8
<b>Section B - Specific</b>			
4	Multiple Choice	12	10
5	Tools	10	9
6	Engines	30	29
7	Systems & Control (Final Drive)	12	11
8	Systems & Control (Drive Systems)	13	11
9	Systems & Control (Hydraulic break System)	13	11
10	Systems & Control (Axels)	9	8
11	Systems & Control (Steering Systems)	13	11
12	Systems & Control (Suspension)	13	11
13	Systems & Control (Electricity)	13	11
14	Maintenance	12	11
15	Forces	16	14
16	Terminology	8	8
<b>TOTAL</b>		<b>200</b>	<b>180</b>

## FITTING AND MACHINING

<b>Final Examination – GRADE 10</b>			
<b>Q. NO</b>	<b>CONTENT</b>	<b>Tot</b>	<b>Time</b>
<b>Section A - Generic</b>			
1	Multiple Choice	14	10
2	Safety	10	9
3	Tools	12	10
4	Joining Methods	18	15
5	Forces	39	35
6	Maintenance	22	20
7	Materials	12	10
<b>Section B - Specific</b>			
8	Multiple Choice	6	8
9	Terminology	40	38
10	Systems and Control	27	25
	<b>TOTAL</b>	<b>200</b>	<b>180</b>

<b>Final Examination – GRADE 11</b>			
<b>Q. NO</b>	<b>CONTENT</b>	<b>Tot</b>	<b>Time</b>
<b>Section A - Generic</b>			
1	Multiple Choice	8	8
2	Safety	10	9
3	Maintenance	10	9
4	Materials	14	11
5	Tools	8	8
<b>Section B - Specific</b>			
6	Multiple Choice	12	10
7	Terminology	25	22
8	Tools	10	9
9	Forces	30	30
10	Maintenance	14	11
11	Joining Methods	20	18
12	Systems and Control	25	24
13	Pumps	14	11
	<b>TOTAL</b>	<b>200</b>	<b>180</b>

## WELDING AND METALWORK

<b>Final Examination</b>			
<b>Q. NO</b>	<b>CONTENT</b>	<b>Tot</b>	<b>Time</b>
<b>Section A - Generic</b>			
1	Multiple Choice	14	10
2	Safety	10	9
3	Tools	12	10
4	Joining Methods	24	20
5	Forces	27	25
6	Maintenance	16	15
7	Materials	12	10
<b>Section B - Specific</b>			
8	Multiple Choice	6	8
9	Terminology (Weld Terms & Templates)	22	19
10	Terminology (Arc- and Gas welding)	20	18
11	Terminology (Weld Symbols & Joints)	15	14
12	Terminology (Developments)	22	22
<b>TOTAL</b>		<b>200</b>	<b>180</b>

<b>Final Examination</b>			
<b>Q. NO</b>	<b>CONTENT</b>	<b>Tot</b>	<b>Time</b>
<b>Section A - Generic</b>			
1	Multiple Choice	8	8
2	Safety	10	9
3	Materials	14	11
<b>Section B - Specific</b>			
4	Multiple Choice	12	10
5	Terminology	27	24
6	Tools	20	18
7	Forces	35	32
8	Maintenance	15	14
9	Joining Methods	25	23
10	Terminology (Developments)	16	15
11	Terminology (Sections)	18	16
<b>TOTAL</b>		<b>200</b>	<b>180</b>