Detailed syllabus for the post of

<u>Junior Instructor - (Mechanic Auto Body Painting) in Industrial Training</u> <u>Department - Cat No: 320/2024 - Total Marks: 100</u>

Modu	Nama	Tonic	distribution
le No	Name	Topic	of marks
	Basic fastening & fitting operation	Micrometres	2
		Micrometre adjustments	1
		Vernier callipers	1
		different types of screws, nuts, studs & bolts, locking devices	2
1		Riveting tools	1
		different type of cutting tools	1
		Parts of a file, specification, Grade, shape	1
		Drilling machines	1
		Total	10
		Electricity principles	1
		Ohm's law	1
		Voltage, Current, Resistance	3
2	Basic	Power, Energy	2
	electricity	Voltmeter, ammeter	2
		Ohmmeter, Multimeter	1
		Total	10
		Internal & external combustion engines	2
	2-stroke and 4 stroke, C.I engine and S.I Engine	Classification of IC engines, Principle & working of	2
		2&4-stroke diesel engine	3
		Differentiate between 2-stroke and 4 stroke, C.I	3
3		engine and S.I Engine	J
3		Technical terms used in engine	2
		Engine specification	2
		Classification of body shop	1
		Description of vehicle body and chassis	1
		Total	14
	Compressor Air system	Basic requirement for compressed air systems	1
		Type of Compressor- construction of Diaphragm	_
		compressor, Piston type compressor-single stage and	2
		two stage, rotary screw air compressor	4
4		Performance of air compressor	1
		Horse power, delivery volume, displacement, Free air delivery,	2
		compressor volumetric efficiency, Air and Fluid Control Equipment,	2
		Distribution system, regulator, lubricator, different type air purification method	1
		Total	9
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1	۸od	Name	Topic	distributio

ule No			n of marks
110		Primers and sealers	2
5		Types of Paints	<u>-</u> 1
		Composition of paints	1
	Refinishing Materials	Abrasives and Abrasive materials	1
		Body fillers	1
		Ingredient, characteristics and Application of body filler	3
		& putties	3
		Total	9
	Corrosion	Safety and general Precautions	2
		Corrosion	1
		Causes of corrosion	1
6	Protection	Anticorrosion Materials	1
	Troccetion	Cost and estimate, Direct repair programs, Estimate time	2
		Total	7
		Spray gun and its parts	4
		Types of Spray guns	3
	Refinishing equipment's and Procedures	Airless spray gun system	1
		Electrostatic Spray gun System	1
7		Types of Spray booth	2
		Basic spray coats	1
		Methods of refinishing	2
		Applying single stage paints	1
		Total	15
	Vehicle surface preparation	Paint removal methods-Mechanical & Chemical	4
		Types of Grit and Numbering	2
8		wet sanding and dry sanding	2
		Liquid masking system	1
		Wax and Grease remover	1
	6.1	Total	10
	Colour matching and Customized	Introduction to Colour	2
9		Primary, Secondary and territory colours	3
		Value, Hue, tint, Chroma, saturation, richness	6
	painting	orange peel, runs and sags, sand scratch swelling, fish-	0
	Dainting	eyes blushing, bleeding, blistering, cracking, Paint	8
10	Painting defects &	wrinkling, chalking etc	0
	Remedies	Rubbing compound, Using buffers and polishers	2
	i (Ciliedies	Total	10
		iotat	10

NOTE: - It may be noted that apart from the topics detailed above, questions from other topics prescribed for the educational qualification of the post may also appear in the question paper. There is no undertaking that all the topics above may be covered in the question paper.

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