#### **AUTO PARTS MERCHANDISING**

### **SCHEME OF EXAMINATION**

There will be two papers, Paper 1 and 2, both of which will be a composite paper to be taken at a sitting.

**PAPER 1:** Will consist of forty multiple choice questions all of which must be taken in 50 minutes for 40 marks.

**PAPER 2:** Will consists of two sections, Sections A and B. Both sections will last for 2 hours and carry 100 marks.

**Section A:** Will consist of three questions including a compulsory one and drawn on the technical part of the syllabus. Candidates will be required to answer two questions, including the compulsory one. The section will carry 40 marks.

**Section B:** Will consist of four questions based on the merchandising part of the syllabus. Candidates will be required to answer three of the questions for 60 marks.

#### **DETAILED SYLLABUS**

SECTIONS	CONTENTS	NOTES
TECHNICAL	(A) AUTOMOBILE	(1) SAFETY IN AUTO PARTS
SECTION	PARTS	MERCHANDISING SHOP:
		i. Definition of safety.
		ii. Safety clothing ( helmet,
		goggle, hand glove, nose
		mask, foot boot, over all
		dress)
		iii. Fire extinguisher: types of
		extinguishers
		iv. Causes and prevention of
		accident
		(2) ENGINE PARTS:
		i. Identification of parts,
	TECHNICAL	TECHNICAL (A) AUTOMOBILE

examples Pisto	Piston
rings, Connect	; rod,
Camshaft, Cra	shaft,
Valves, Cylind	head and
Oil pump.	
ii. Sketching of E	ine parts as
listed above.	
iii. Location and f	ctions of
engine parts.	
3) TRANSMISSION	
SYSTEM(CLUTCH)	
i. Identification of	oarts of a
clutch.( flywhe	
plate, pressure	
assembly and r	ease
bearing)	
ii. Functions of th	clutch parts.
4) TRANSMISSION SY	
(GEAR BOX):	
i. Types of gear l	<b>α</b> :
(manual – 3, 4	
and automatic	_
ii. Functions of go	
5) TRANSMISSION SY	
(PROPELLER SHA)	
REAR AXLE ASSE	
i. Types of prope	
universal/slidir	
ii. Functions of th	JOIII163.
transmission sy	em narte
u ansimission s	om parts.

iii.

Identification of parts of axle

assembly. (6) SUSPENSION SYSTEM: Types. (Normal beam and independent suspension system.) Parts of suspension systemii. Damper, spring (coil springs, torsion bar, leaf spring) Functions of the parts. iii. (7) COOLING SYSTEM: i. Types.( water and air cooling system) ii. Functions of the cooling system. iii. Parts of water and air cooling systems.( Radiators, fan blade, fan belt, water pump, water host and thermostat). (8) STEERING SYSTEM: Types. (Manual and power i. assisted steering.) ii. Parts of a steering (steering gearboxes, steering wheel, steering shaft and tie-rod. iii. Functions of the parts. (9) BRAKING SYSTEM: i. Types. (Disc and drum)

ii.

Parts. (master cylinder,

wheel cylinder, connecting

			pipe, brake pads, brake
			shoes/ lining)
		iii.	Functions of the parts.
		(10)	LUBRICATION
		· · ·	TEM:
		i.	Parts. (Oil tank/sump, Oil
			filter, Oil cooler, Oil seal,
			Pressure switch and Oil
			pump & types
		ii.	Types of lubricant (Oil and
			grease)
		iii.	Types of Oil (SAE40,
			SAE60 and SAE 30/20w)
		iv.	Quality and uses of oil and
			grease.
		(11)	<b>ELECTRICAL PARTS:</b>
		i.	Components (Battery, fuse,
			electrical control unit/brain
			box, alternator, ignition,
			coil, bulb, and cut-out)
		ii.	Identification of the
			components.
		iii.	Functions of the component.
	(B) <u>TOOL, TEST</u>	(12)	WHEELS AND TYRES:
	<b>EQUIPMENT AND</b>	i.	Types of wheel (Spoke
	<u>ACCESSORIES</u>		wheel, alloyed wheel and
			pressed steel wheel)
		ii.	Types of tyres (tube and
			tubeless)
		iii.	Sizes of wheel and tyre.
		iv.	Functions of wheel and tyre.

# (1) TYPES OF TOOLS AND THEIR USES: i. General tools (Spanner, harmer, mallet, allen key, screw driver, and plier) Special tools (Extractor, ii. pullers, Sledge hammer, and lifters) iii. Differences between general and special tools (2) CARE OF TOOLS Ways/means of caring for i. tools e.g.(greasing, cleaning and packing,) ii. Effects of improper tools care (3) TEST EQUIPMENT i. Types (Spark plug cleaner, engine analyzer, dwell angle tester, Exhaust gas analyzer, and vacuum tester) Functions of different types ii. of test equipment. (4) MAINTENANCE OF TEST **EQUIPMENT** Knowledge of starting and stopping of the equipment. ii. Importance/Uses of manufacturers' manuel.

(5) ACCESSORIES

i.

Definition.

			ii.	Importance.
			iii.	Care of accessories.
			iv.	Types ( steering cover, car
				radio, wheel cover, seat
				cover and car cover)
2.	MERCHANDIS	(A) STORAGE,	(1) STO	RAGE:
	ING SECTION	CATALOGING	i.	Definition
		AND VISUAL	ii.	Process and ways of storing
		PRESENTATION		parts
			iii.	Reasons for proper storing
				of parts
			(2) CAT	ALOGUING:
			i.	Definition.
			ii.	Functions
			iii.	Process of locating Auto
				parts using Catalogue.
			(3) RE-0	ORDER QUANTITY
			i.	Meaning
			ii.	Importance/Advantage of re-
				order quantity.
			iii.	The process of re-ordering
				auto- parts quantity /Stock
			iv.	Principle of maintaining
				parts/stock level and its
				importance.
			V.	Calculations (Re-order level,
				FIFO and LIFO)
			(4) VISU	UAL PRESENTATION:
			i.	Methods of items
				presentation
				/grouping/arrangement of

		parts (by branding and	
		manufacturers/models	
	ii.	Advantages of item	
		presentation.	
	(5) INV	ENTORY:	
	i.	Definition.	
	ii.	Types( Daily, Periodic and	
		annual)	
	iii.	Procedure for inventory	
		taking( use of bin card)	
	(6) PRC	DUCT SOURCING:	
	i.	Definition.	
	ii.	Ways of sourcing products	
	iii.	Importance.	
(B) SALES,	(1) SAL	ES:	
INVOICING,	i.	Definition.	
FORCASTING,	ii.	Types (Cash, Credit/	
RECORD		deferred sales)	
KEEPING,, FUND	iii.	Method of selling (Personal,	
RAISING,		door-to-door, trade fairs,	
MARKET		open market, unit shops.	
ANALYSIS,	iv.	Explanation and procedure	
ADVERTISING,		for sales calls	
VALUE PRICING	(2) INV	VOICING:	
AND CUSTOMER	i.	Meaning.	
SERVICES.	ii.	Contents.	
	iii.	Uses/Importance.	
	(3) FOR	RECASTING:	
	i.	Definition.	
	ii.	Need/Reasons for	
		forecasting.	

Advantages of forecasting. iii. (4) RECORD KEEPING: Types of records. (sale journal, purchases journal, sales ledger, purchase ledger, invoice, receipt and cash book.) Process of keeping the ii. records iii. Uses of the various records. (5) FUND RAISING(SOURCE OF **FINANCE):** Definition of fund raising. i. ii. Types of fund. iii. Source/ways of raising fund. The process/procedure of iv. raising fund. (6) MARKET ANALYSIS: i. Definition of market. ii. Definition of market analysis. Definition of market iii. segment. Explanation of Market iv. segmentation. Procedure and basis for V. Market Segmentation. (7) VALUE PRICING: Definition. i. ii. Types. Application. iii.

	(8) ADVERTISING:
	i. Definition.
	ii. Types.
	iii. Media of advertising.
	iv. Advantages.
	(9) CUSTOMER SERVICE:
	i. Meaning
	ii. Types
	iii. Importance/advantages
	iv. Handling of customers'
	complaints
(C) WARRANTY/	(1) WARRANTY/ GUARANTY:
GUARANTY AND	i. Meaning.
REGULATORY BODIES.	ii. Importance.
	iii. Procedure for claiming
	warranty/guaranty right
	iv. Process of losing warranty
	right
	(2) REGULATORY BODIES:
	i. Reason for regulation.
	ii. Quality control ( Definition
	and types)
	iii. Ways to improve quality.
	iv. Examples of Regulatory
	Body. (Standard
	Organisation of Nigeria-
	SON, Consumer Protection
	Board and Society of
	Automobile Engineers –
	SAE)
	v. Functions.

( D)	(1) INTRDUCTION TO AUTO
ENTREPRENUERSHIP	PARTS MERCHANDISING:
	i. Definition of merchandising.
	ii. Explanation of Auto parts
	merchandising.
	(2) PERSONAL QUALITIES OF A
	MERCHANDISER:
	i. Qualities of an auto parts
	seller.
	(3) ETHICAL BUSINESS
	BEHAVIOUR:
	i. Definition.
	ii. Type
	iii. Explanation of behavior
	expected of an Auto part
	seller.

## RECOMMENDED TEXTBOOKS

- 1. Technology For Motor Vehicle Mechanics, Parts 1, 2 &3. By Mudd, S.C.
- 2. Motor Vehicle Technology and Practical Work. By Dolan, D. A.
- 3. Principles of Marketing. By Philip Kotler.
- 4. Marketing. By Giles, G.B. (The M&E Hand book)