#### **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**

S/N	SECTIONS	CONTENTS	NOTES
1.	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,

examples Piston, Piston
rings, Connecting rod,
Camshaft, Crankshaft,
Valves, Cylinder head and
Oil pump.
ii. Sketching of Engine parts as
listed above.
iii. Location and functions of
engine parts.
(3) TRANSMISSION
SYSTEM(CLUTCH):
i. Identification of parts of a
clutch.( flywheel, clutch
plate, pressure plate
assembly and release
bearing)
ii. Functions of the clutch parts.
(4) TRANSMISSION SYSTEM
(GEAR BOX):
i. Types of gear box:
(manual – 3, 4 & 5 speeds
and automatic transmission)
ii. Functions of gear box.
(5) TRANSMISSION SYSTEM
(PROPELLER SHAFT AND
REAR AXLE ASSEMBLY):
i. Types of propeller shafts and
universal/sliding joints.
ii. Functions of the
transmission system parts.
iii. Identification of parts of axle

		assembly.
	(6) CHCD	-
		ENSION SYSTEM:
	i.	Types. (Normal beam and
		independent suspension
		system.)
	ii.	Parts of suspension system-
		Damper, spring (coil
		springs, torsion bar, leaf
		spring)
	iii.	Functions of the parts.
	(7) COO	LING 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) STEE	RING SYSTEM:
	i.	Types. (Manual and power
		assisted steering.)
	ii.	Parts of a steering (steering
		gearboxes, steering wheel,
		steering shaft and tie-rod.
	iii.	Functions of the parts.
	(9) BRAI	KING 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) SYS	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) TOOL, TEST	(12)	WHEELS AND TYRES:
EQUIPMENT AND ACCESSORIES	i.	Types of wheel (Spoke 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 Types (Spark plug cleaner, i. engine analyzer, dwell angle tester, Exhaust gas analyzer, and vacuum tester) ii. Functions of different types of test equipment. (4) MAINTENANCE OF TEST **EQUIPMENT** i. Knowledge of starting and stopping of the equipment. ii. Importance/Uses of manufacturers' manuel. (5) ACCESSORIES Definition. i.

			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	JAL 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) PRO	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	OICING:
AND CUSTOMER	i.	Meaning.
SERVICES.	ii.	Contents.
	iii.	Uses/Importance.
	(3) FOR	ECASTING:
	i.	Definition.
	ii.	Need/Reasons for
		forecasting.

		iii.	Advantages of forecasting.
		4) REC	ORD KEEPING:
		i.	Types of records. (sale
			journal, purchases journal,
			sales ledger, purchase
			ledger, invoice, receipt and
			cash book.)
		ii.	Process of keeping the
			records
		iii.	Uses of the various records.
	(	<b>5) FUN</b>	D RAISING(SOURCE OF
		FINA	ANCE):
		i.	Definition of fund raising.
		ii.	Types of fund.
		iii.	Source/ways of raising fund.
		iv.	The process/procedure of
			raising fund.
	(	6) MAR	KET ANALYSIS:
		i.	Definition of market.
		ii.	Definition of market
			analysis.
		iii.	Definition of market
			segment.
		iv.	Explanation of Market
			segmentation.
		v.	Procedure and basis for
			Market Segmentation.
		<b>7) VAL</b>	UE PRICING:
		i.	Definition.
		ii.	Types.
		iii.	Application.

	(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)