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
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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) TRA	NSMISSION
SYS	TEM(CLUTCH):
i.	Identification of parts of a
	clutch.(flywheel, clutch
	plate, pressure plate
	assembly and release
	bearing)
ii.	Functions of the clutch parts.
(4) TRA	NSMISSION SYSTEM
(GE	AR BOX):
i.	Types of gear box:
	(manual – 3, 4 & 5 speeds
	and automatic transmission)
ii.	Functions of gear box.
(5) TRA	NSMISSION SYSTEM
(PRO	OPELLER SHAFT AND
REA	AR AXLE ASSEMBLY):
i.	Types of propeller shafts and
	universal/sliding joints.
	iii. (3) TRA SYS i. ii. (4) TRA (GE. i. ii. (5) TRA (PRO REA

			transmission system parts.
		iii.	Identification of parts of axle

		assembly.
	(6) SUSP	PENSION SYSTEM:
	i.	Types. (Normal beam and independent suspension system.)
	ii.	Parts of suspension systemDamper, 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) STEF	ERING 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) BRA	KING SYSTEM:

	i.	Types. (Disc and drum) ii.
		Parts. (master cylinder,
		wheel cylinder, connecting

		pipe, brake pads, brake
		shoes/ lining)
		Functions of the parts.
	iii.	LUBRICATION
	(10)	LUDRICATION
	SYST	EN Parts. (Oil tank/sump, Oil
	i.	filter, Oil cooler, Oil seal,
		Pressure switch and Oil
		pump & types
		Types of lubricant (Oil and
	ii. iii.	grease)
		Types of Oil (SAE40,
	iv.	SAE60 and SAE 30/20w)
		Quality and uses of oil and
	(11)	grease.
	i.	ELECTRICAL PARTS:
	••	Components (Battery,
		fuse, electrical control
		unit/brain box, alternator,
		ignition, coil, bulb, and
	ii.	cut-out) Identification of
		the components.
	iii.	Functions of the component.
(B) TOOL, TEST	(12)	WHEELS AND TYRES:
EQUIPMENT AND	i.	Types of wheel (Spoke
ACCESSORIES		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) TYPE	S OF TOOLS AND THEIR
	USES	:
	i.	General tools (Spanner,
		harmer, mallet, allen key,
		screw driver, and plier)
	ii.	Special tools (Extractor,
		pullers, Sledge hammer, and
		lifters)
	iii.	Differences between general
		and special tools
	(2) CARE	E OF TOOLS
	i.	Ways/means of caring for
		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)
	ii.	Functions of different types
		of test equipment.
	(4) MAIN	TENANCE OF TEST
	EQUI	PMENT
	i.	Knowledge of starting and
		stopping of the equipment. ii.
	Im	nportance/Uses of

		manufacturers' manuel.
	(5) ACCI	ESSORIES
	i.	Definition.

	ii.	Importance. iii.
		Care of
	acces	sories.
	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) IN	VENTORY:
	i.	Definition.
	ii.	Types(Daily, Periodic and
		annual)
	iii.	Procedure for inventory
		taking(use of bin card)
	(6) PF	RODUCT SOURCING:
	i.	Definition.
	ii.	Ways of sourcing products
	iii.	Importance.

(B) SALES, **(1) SALES:** INVOICING, i. Definition. FORCASTING, Types (Cash, Credit/ ii. **RECORD** deferred sales) **KEEPING,, FUND** iii. Method of selling (Personal, RAISING, door-to-door, trade fairs, **MARKET** open market, unit shops. ANALYSIS, Explanation and procedure iv. ADVERTISING, for sales calls **VALUE PRICING** AND CUSTOMER (2) INVOICING: SERVICES. Meaning. ii. Contents. i. iii. Uses/Importance. (3) FORECASTING: Definition. i. Need/Reasons for ii. forecasting.

iii. Advantages of forecasting.
(4) RECORD 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.
(5) FUND RAISING(SOURCE OF
FINANCE):
i. Definition of fund raising.
ii. Types of fund. iii.
Source/ways of raising fund.
iv. The process/procedure of raising fund.
(6) MARKET 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.

	(7) VALUE 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) WAR	RRANTY/ GUARANTY:
GUARANTY AND	i.	Meaning. ii. Importance.
REGULATORY BODIES.	iii.	Procedure for claiming
		warranty/guaranty right
	iv.	Process of losing warranty
		right
	(2) REG	ULATORY 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)