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 SYLLARUS

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,

rings, Connecting rod Camshaft, Crankshaft Valves, Cylinder head Oil pump. ii. Sketching of Engine p listed above. iii. Location and function	I
Valves, Cylinder head Oil pump. ii. Sketching of Engine p	1,
Oil pump. ii. Sketching of Engine plisted above.	t,
ii. Sketching of Engine plisted above.	d and
listed above.	
	parts as
iii. Location and function	
	ns of
engine parts.	
(3) TRANSMISSION	
SYSTEM(CLUTCH):	
i. Identification of parts	s of a
clutch.(flywheel, clut	tch
plate, pressure plate	
assembly and release	
bearing)	
ii. Functions of the clutc	ch parts.
(4) TRANSMISSION SYSTEM	Л
(GEAR BOX):	
i. Types of gear box:	
(manual – 3, 4 & 5 s ₁	peeds
and automatic transm	ission)
ii. Functions of gear box	ζ.
(5) TRANSMISSION SYSTEM	A
(PROPELLER SHAFT AN	D
REAR AXLE ASSEMBLY) :
i. Types of propeller sha	afts and
universal/sliding joint	ts.
ii. Functions of the	
transmission system p	parts.
iii. Identification of parts	of axle

		assembly.
	(6) SUSP	PENSION 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	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)
	iii.	Functions of the parts.
	(10)	LUBRICATION
	SYS'	ГЕМ:
	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)	ELECTRICAL PARTS:
	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:
EQUIPMENT AND	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.

i. ii. (2) (2) (3) i.	i. ii. CARE	General tools (Spanner, harmer, mallet, allen key, screw driver, and plier) Special tools (Extractor, pullers, Sledge hammer, and lifters) Differences between general and special tools OF TOOLS
(2) C	i. ii. CARE	harmer, mallet, allen key, screw driver, and plier) Special tools (Extractor, pullers, Sledge hammer, and lifters) Differences between general and special tools OF TOOLS
(2) C	ii. CARE	screw driver, and plier) Special tools (Extractor, pullers, Sledge hammer, and lifters) Differences between general and special tools OF TOOLS
(2) C	ii. CARE	Special tools (Extractor, pullers, Sledge hammer, and lifters) Differences between general and special tools OF TOOLS
(2) C	ii. CARE	pullers, Sledge hammer, and lifters) Differences between general and special tools OF TOOLS
i. (2) C	CARE	lifters) Differences between general and special tools OF TOOLS
i. (2) C	CARE	Differences between general and special tools OF TOOLS
i. (2) C	CARE	and special tools OF TOOLS
i.		OF TOOLS
i.		
	i .	
i		Ways/means of caring for
i ii		tools e.g.(greasing, cleaning
i ii		and packing,)
	i.	Effects of improper tools
		care
(3) T	TEST 1	EQUIPMENT
i.		Types (Spark plug cleaner,
		engine analyzer, dwell angle
		tester, Exhaust gas analyzer,
		and vacuum tester)
ii	i.	Functions of different types
		of test equipment.
(4) N	MAIN	TENANCE OF TEST
E E	EQUIP	PMENT
i.		Knowledge of starting and
		stopping of the equipment.
i	i.	Importance/Uses of
		manufacturers' manuel.
(5) A	ACCE	SSORIES
i.		Definition.

(1) TYPES OF TOOLS AND THEIR

			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.
(5) FUN	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	RKET 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) VAL	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.

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)