

QUESTION PAPER DESIGN

Subject	:	Automobile
Level	:	1
Class	:	IX
Time	:	2 Hrs. 30 Minutes
Marks	:	60

1. Weightage to Objectives:

Objective	K	U	A + S	Total
Percentage of Marks	40%	30%	30%	100%
Marks	24	18	18	60

2. Weightage to form of Questions:

Forms of Questions	E	SA	VSA/O	O	Total
No. of Questions	2 (5 each)	7(3 each)	05(1 Each)	24	38
Marks Allotted	10	21	05	24	60
Estimated Time	50 min	45 min	15 min	40 min	150 mints

3. Weightage to Content:

	Marks
1. History of Evolution of Automobile	04
2. Various Type of Automobile	08
3. Systems and Components of Automobile	12
4. Road Safety	10
5. Automobile and our Environment	04
6. Vehicle Maintenance and Servicing (Basic)	08
7. Innovations and Development in Automobile	04
8. Employability Skill	10

Total = 60

4. Scheme of Sections :

X X X

5. Scheme of Sections :

Option of Internal Choice in essay type questions

6. Difficulty level :

Difficult: 10 % marks
Average: 50 % marks
Easy : 40 % marks

The Q.P. Design comes with whole syllabus

QUESTION PAPER DESIGN

Subject	:	Automobile
Level	:	2
Class	:	X
Time	:	2 Hrs. 30 Minutes
Marks	:	60

1. Weightage to Objectives:

Objective	K	U	A + S	Total
Percentage of Marks	40%	30%	30%	100%
Marks	24	18	18	60

2. Weightage to form of Questions:

Forms of Questions	E	SA	VSA/O	O	Total
No. of Questions	2(6each)	5(3 each)	13	20	40
Marks Allotted	12	15	13	20	60 Marks
Estimated Time	40 min	30 min	28 min	52min	150 min

3. Weightage to Content:

	<u>Marks</u>
1 Automobile and Its Components	20
2 Automobile Service Tools	10
3 Vehicle Servicing	10
4 Customer Sales Care	05
5 Innovation And Development	05
6 Employability Skills	10
Total =	60

4. Scheme of Sections :

X X X

5. Scheme of Sections :

Option of Internal Choice in essay type questions

6. Difficulty level :

Difficult : 10 % marks
 Average : 50 % marks
 Easy : 40 % marks

Abbreviations: K (Knowledge), U (Understanding), A (Application), S (Skill), E (Essay Type), SA (Short Answer Type), VSA (Very Short Answer Type), O (Objective Type)

"It is certified that this question paper Design covers the whole syllabus"

QUESTION PAPER DESIGN

Subject	:	Automobile
Level	:	3
Class	:	XI
Time	:	2 Hrs. 30 Minutes
Marks	:	60

1. Weightage to Objectives:

Objective	K	U	A + S	Total
Percentage of Marks	40%	30%	30%	100%
Marks	24	18	18	60

2. Weightage to form of Questions:

Forms of Questions	E	SA	VSA/O	O	Total
No. of Questions	2(6each)	6(3 each)	5(2each)	20	33
Marks Allotted	12	18	10	20	60 Marks
Estimated Time	40 min	36 min	22 min	52min	150 min

3. Weightage to Content:

	Marks
1 Introduction to Engineering Geometrics and Drawing	08
2 Materials for Construction of Automotive Components	08
3 Regular Maintenance of Engine	07
4 Regular Maintenance of Transmission System	05
5 Regular Maintenance of Gear Box	05
6 Servicing of Wheels	05
7 Regular Maintenance of Tube and Tyre	06
8 Regular Maintenance of Brakes	06
9 Employability Skills	10

Total = 60

4. Scheme of Sections :	<u> X X X </u>
5. Scheme of Sections :	Option of Internal Choice in essay type questions
6. Difficulty level :	Difficult : <u>10 %</u> marks
	Average : <u>50 %</u> marks
	Easy : <u>40 %</u> marks

Abbreviations: K (Knowledge), U (Understanding), A (Application), S (Skill), E (Essay Type), SA (Short Answer Type), VSA (Very Short Answer Type), O (Objective Type)

BOARD OF SCHOOL EDUCATION HARYANA, BHIWANI

(AN ISO 9001:2015 CERTIFIED ORGANISATION)

Hansi Road, Bhiwani (Haryana) - 127021

QUESTION PAPER DESIGN (Session 2021-22)

Subject : Automobile
Level : 4
Class : 12th
Time : 2 Hrs. 30 Minutes
Marks : 60

1. Weightage to Objectives:

Objective	K	U	A + S	Total
Percentage of Marks	40%	30%	30%	100%
Marks	24	18	18	60

2. Weightage to form of Questions:

Forms of Questions	E	SA	VSA/O	O	Total
No. of Questions	2	4	5	26	37
Marks per Questions	6	3	2	1	
Marks Allotted	12	12	10	26	60
Estimated Time	40	24	21	65	150 min

3.

Sr No	Weightage to Content:	Marks
1	Service Manual	5
2	Serviceability, Replacement or Repair of Engine Components	10
3	Transmission System	10
4	Suspension System	10
5	Auto Electrical	15
6	Employability Skills	10
	Total	60

4. Scheme of Sections :

X X X

5. Scheme of Sections :

Option of Internal Choice in essay type questions

6. Difficulty level :

Difficult : 10 % marks

Average : 50 % marks

Easy : 40 % marks

Abbreviations: K (Knowledge), U (Understanding), A (Application), S (Skill), E (Essay Type), SA (Short Answer Type), VSA (Very Short Answer Type), O (Objective Type)

Board of School Education, Haryana

CURRICULUM FOR SESSION 2021-22

Subject : Automobile
Level : 1
Class : 9th

Employability Skills

Unit	Unit Name	Deleted Portion (SESSION/ SUB-UNIT)
Unit 1	Communication Skills	Session 7: Greetings and Introduction Session 8: Talking about Self Session 9: Asking Questions I Session 10: Asking Questions II
Unit 2	Self-Management Skills	Session 5: Personal Hygiene Session 6: Grooming
Unit 3	Information and Communication Technology Skills	Session 9: Communication and Networking — Introduction to e-mail Session 10: Communication and Networking — Creating an e-mail Account Session 11: Communication and Networking — Writing an e-mail Session 12: Communication and Networking — Receiving and Replying to e-mails
Unit 4	Entrepreneurship Skills	Session 7: Entrepreneurship Development Process
Unit 5	Green Skills	Session 1: Society and Environment

Subject Specific Skills (Automobile)

Unit	Unit Name	Deleted Portion SESSION/ SUB-UNIT
1	History and Evolution of Automobile	Session-2- Wheel Cart Session -4- Innovation of Automobile (Post World war-II)
2	Various Types of Automobiles	Session-5- Special Vehicles
3	Major Systems and Components of an Automobile	Session-6- Transmission System Session-10- Electrical or Electronic and Air Conditioning Systems Session-11- Active and Passive Safety
4	Road Safety	Session-3- Road Signs
5	Automobile and Environment	Session-2- Auto Emissions and EU/BS Standards Session-3- PUC Certification
6	Introduction to Vehicle Maintenance And Servicing	Session-3- Introduction to Vehicle Service Procedure
7	Innovation and Development in Automobiles

Note- To be assessed in Practical only. No question shall be asked from this portion in Theory Exams.

Board of School Education, Haryana

CURRICULUM FOR SESSION 2021-22

Subject	:	Automobile
Level	:	2
Class	:	10 th

Employability Skills

Unit-1	Communication Skills	Session 6: Writing Skills — Parts of Speech Session 7: Writing Skills — Sentences
Unit-2	Self-management Skills	Session 4 :Self-regulation — Goal Setting Session 5 : Self-regulation — Time Management
Unit-3	Information and Communication Technology Skills -	Session 4 :Computer Security and Privacy
Unit-4	Entrepreneurial Skills	Session 3: Myths about Entrepreneurship Session 4 : Entrepreneurship as a Career Option
Unit-5	Green Skills	-

Subject Specific Skills (Automobile)

Unit	Unit Name	Deleted Portion SESSION/ SUB-UNIT
1	Automobile and their Components	Session-7- Transmission System Session -8- Front Axle Session-10-Rear Axle Session-11- Suspension System Session-14- Electrical and Electronics System
2	Automobile Service Tools	Session-3- Electrical Tools Session-4- Special Tools
3	Vehicle Servicing	Session-5- Changing of Coolant
4	Customer Sales Care	*****
5	Innovation and Development	*****

Note- To be assessed in Practical only. No question shall be asked from this portion in Theory Exams

Board of School Education, Haryana

CURRICULUM FOR SESSION 2021-22

Subject : Automobile
Level : 3
Class : 11th

Employability Skills

Unit-1	Communication Skills	Session 11: Asking Questions Session 12: Talking about Family Session 13: Describing Habits and Routines Session 14: Asking for Directions
Unit-2	Self-management Skills	Session 6: Self-motivation Session 7: Goal Setting Session 8: Time Management
Unit-3	Information and Communication Technology Skills	Session 6: Inserting Lists, Tables, Pictures, and Shapes Session 7: Header, Footer and Page Number Session 8: Tracking Changes in LibreOffice Writer
Unit-4	Entrepreneurial Skills	Session 5: Coming Up with a Business Idea Session 6: Understanding the Market Session 7: Business Planning
Unit-5	Green Skills	Session 4: Government and Private Agencies

Subject Specific Skills (Automobile)

Unit	Unit Name	Deleted Portion SESSION/ SUB-UNIT
1	Introduction to Engineering Geometrics and Drawing	Session-2- Engineering Drawing
2	Materials for construction of Automotive Component	Session-1- Engineering Materials
3	Regular Maintenance of an Engine	Session-7- Tightening of fastener (Nuts/Bolts/Screws)
4	Regular Maintenance of Transmission System	Session-1- Transmission System
5	Regular Maintenance of Gearbox	Session-1- Setting of Gearbox
6	Servicing of Wheel	Session-1- Importance of hub Greasing and Bearing Play Adjustments
7	Regular Maintenance of tubes and tyres
8	Brake and its Maintenance

Note- To be assessed in Practical only. No question shall be asked from this portion in Theory Exams

Board of School Education, Haryana

CURRICULUM FOR SESSION 2021-2022

Subject : Automobile

Level : 4

Class : 12th

Employability Skills

Unit	Unit Name	Due to Covid-19 this 30% (SESSION/ SUB-UNIT) Reduce from Syllabus
UNIT 1	Communication Skills	-----
UNIT 2	Self - Management Skills	-----
UNIT 3	Information and Communication Technology Skills	<u>Session 6:</u> Inserting Lists, Tables, Pictures, and Shapes <u>Session 7:</u> Header, Footer and Page Number <u>Session 8:</u> Tracking Changes in Libre Office Writer
UNIT 4	Entrepreneurship Skills	<u>Session 5:</u> Coming Up with a Business Idea <u>Session 6:</u> Understanding the Market <u>Session 7:</u> Business Planning
UNIT 5	Green Skills	<u>Session 4:</u> Government and Private Agencies

Subject Specific Skills (Automobile)

Unit	Unit Name	Reduce 30% Syllabus (SESSION/ SUB-UNIT)
UNIT 1	Service Manual	-----
UNIT 2	Serviceability, Replacement or Repair of Engine Components	<u>Session 3:</u> Inspection and replacement of Sleeves, Connecting rod and Engine Bearing. <u>Session 6:</u> Servicing of CRDI and Non CRDI System
UNIT 3	Transmission System	<u>Session 2:</u> Servicing of Propeller shaft, Universal and Slip Joints.
UNIT 4	Suspension System	<u>Session 3:</u> Replacement of strut/shock absorber, steering linkage
UNIT 5	Auto Electrical	<u>Session 6:</u> Circuit diagram of charging system of automobile and checking of charging system. <u>Session 7:</u> Circuit diagram of starting system of automobile and checking of starter circuit. <u>Session 8:</u> Circuit diagram of Ignition system of automobile and checking of Ignition system. <i>Session 9. maintenance of wiring of major electrical</i> <u>Session 10:</u> Introduction to climate control system heating ventilation and air conditioning in a vehicle.