

CBSE | DEPARTMENT OF SKILL EDUCATION

AUTOMOTIVE (SUBJECT CODE: 404)

Blueprint for Sample Question Paper for Class X (Session 2024-2025)

Max. Time: 2 Hours

Max. Marks: 50

PART A - EMPLOYABILITY SKILLS (10 MARKS):

UNIT NO.	NAME OF THE UNIT	OBJECTIVE TYPE QUESTIONS	SHORT ANSWER TYPE QUESTIONS	TOTAL QUESTIONS
		1 MARK EACH	2 MARKS EACH	
1	Communication Skills-II	1	1	2
2	Self-Management Skills-II	2	1	3
3	Information and Communication Technology Skills-II	1	1	2
4	Entrepreneurial Skills-II	1	1	2
5	Green Skills-II	1	1	2
TOTAL QUESTIONS		6	5	11
NO. OF QUESTIONS TO BE ANSWERED		Any 4	Any 3	
TOTAL MARKS		1 x 4 = 4	2 x 3 = 6	10 MARKS

PART B - SUBJECT SPECIFIC SKILLS (40 MARKS):

UNIT NO.	NAME OF THE UNIT	OBJECTIVE TYPE QUESTIONS	SHORT ANSWER TYPE QUESTIONS	DESCRIPTIVE/ LONG ANS. TYPE QUESTIONS	TOTAL QUESTIONS
		1 MARK EACH	2 MARKS EACH	4 MARKS EACH	
1.	Automobile and it's components	11	2	1	14
2.	Tools	3	2	0	4
3.	Vehicle servicing	3	1	1	5
4.	Customer sales care	2	0	1	4
5.	Innovation and development	3	0	2	5
6.	Reading of service manual	2	1	0	3
TOTAL QUESTIONS		24	6	5	35
NO. OF QUESTIONS TO BE ANSWERED		20	Any 4	Any 3	27
TOTAL MARKS		1 x 20 = 20	2 x 4 = 8	4 x 3 = 12	40 MARKS

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Max. Time: 2 Hours

Max. Marks: 50

General Instructions:

1. Please read the instructions carefully.
2. This Question Paper consists of **21 questions** in two sections: Section A & Section B.
3. Section A has Objective type questions whereas Section B contains Subjective type questions.
4. **Out of the given (5 + 16 =) 21 questions, a candidate has to answer (5 + 10 =) 15 questions in the allotted (maximum) time of 2 hours.**
5. All questions of a particular section must be attempted in the correct order.
6. **SECTION A - OBJECTIVE TYPE QUESTIONS (24 MARKS):**
 - i. This section has 05 questions.
 - ii. Marks allotted are mentioned against each question/part.
 - iii. There is no negative marking.
 - iv. Do as per the instructions given.
7. **SECTION B – SUBJECTIVE TYPE QUESTIONS (26 MARKS):**
 - i. This section has 16 questions.
 - ii. A candidate has to do 10 questions.
 - iii. Do as per the instructions given.
 - iv. Marks allotted are mentioned against each question/part.

SECTION A: OBJECTIVE TYPE QUESTIONS

Q. 1	Answer any 4 out of the given 6 questions on Employability Skills (1 x 4 = 4 marks)	
i.	You need to apply leave at work? Which method of Communication will you use? (a) e-mail (b) Poster (c) Newsletter (d) Blog	1
ii.	Viraj works hard to get the best student award at the end of year. What type of motivation is this? (a) Internal (b) External (c) Both internal and external (d) Not any specific type of motivation	1
iii.	SMART stands for_____.	1
iv.	What keys do you use to copy something? (a) Ctrl+x (b) Ctrl+c (c) Ctrl+z (d) Ctrl+y	1
v.	Which of the following functions is not performed using mouse. (a) Turn on (b) Hover (c) Right click (d) Drag and Drop	1
vi.	Green Economy as Biological economy that is concerned with_____. (a) Renewable energy (b) Clean transportation (c) Land management (d) All of the above.	1
Q 2	Answer any 5 out of the given 6 questions (1 x 5 = 5 marks).	
i.	_____must know how to read and use the service manual for Maintaining, servicing of a vehicle.	1
ii.	Distance travelled from TDC to BDC is called _____. (a) Bore (b) Stroke (c) Swept Volume (d) Clearance Volume	1
iii.	The deck lid is opened and closed with the help of _____.	1
iv.	-----is used for cleaning the vehicle.	1
v.	Navigation systems is used for _____.	1
vi.	Lubrication is used for reducing (a) Friction (b) Cooling part (c) Decrease in temperature (d) Spare parts	1

Q 3.	Answer any 5 out of the given 6 questions (1 x 5 = 5 marks).	
i.	Coolant is used for (a) Heating the engine (b) Cooling the engine (c) Firing the engine (d) Freezing the engine	1
ii.	In the Gravity system, the fuel tank is mounted at the----- position.	1
iii.	An universal joint is used where two shafts are connected at an angle to _____ Torque.	1
iv.	Rigid axle beam is a stationary _____ member.	1
v.	What is the full form of VIT?	1
vi.	What is the full form of TPMS?	1
Q 4.	Answer any 5 out of the given 6 questions (1 x 5 = 5 marks).	
i.	Steering is used for _____.	1
ii.	Shocks and Struts are located _____ the wheels of a vehicle.	1
iii.	The tubeless and tube tyres are called _____ tyres.	1
iv.	Tachometer is used for _____.	1
v.	Air filter is made of _____. (a) Iron (b) Wood (c) Steel (d) Paper	1
vi.	Sales person should greet customer with a smiling _____.	1
Q 5.	Answer any 5 out of the given 6 questions (1 x 5 = 5 marks).	
i.	Hypoid Gears are widely _____ for final drive these days.	1
ii.	A spanner is used for (a) Tightening the bolt (b) Opening the nut (c) Cutting the nut (d) Folding the nut	1
iii.	One of the most important aspects of a customer service is that of what is often referred to as the _____.	1
iv.	Innovations are important for-----.	1
v.	A mallet is a kind of-----, usually of rubber or wood smaller.	1
vi.	Fuel filter removes _____ from fuel.	1

SECTION B: SUBJECTIVE TYPE QUESTIONS

Answer any 3 out of the given 5 questions Employability skills in 20-30 words each (2 x 3 = 6 marks).

Q. 6	What is verbal communication? Give Examples	2
Q. 7	What is TINS rule of Capitalization?	2
Q. 8	What is self-motivation? What are the types of motivation?	2
Q. 9	Tell about any two qualities of an entrepreneur.	2
Q. 10	Tell about shortcut commands of cut and paste.	2

Answer any 4 out of the given 6 questions in 20 – 30 words each (2 x 4 = 8 marks)

Q. 11	What is piston displacement? What is it's another name?	2
Q. 12	Tell about any four parts of cooling system.	2
Q. 13	Differentiate between outside calipers and inside calipers.	2
Q. 14	Write material and tools requirement for changing the oil and oil filter.	2
Q. 15	Write content of service manual.	2
Q. 16	Why is necessary to go to Service Workshop?	2

Answer any 3 out of the given 5 questions in 80-100 words each (4 x 3 = 12 marks)

Q. 17	Write functions of automotive battery?	4
Q. 18	What are the steps to be followed for manual washing of a vehicle?	4
Q. 19	Explain important aspects of customer service?	4
Q. 20	Enlist top 10 innovations of automobile?	4
Q. 21	Why vehicle manufacturers invest in Research and Development in for vehicle?	4