

CBSE | DEPARTMENT OF SKILL EDUCATION

AUTOMOTIVE (SUBJECT CODE: 404)

Blueprint for Sample Question Paper for Class X (Session 2020-2021)

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	2	2	0	4
3.	Vehicle servicing	3	1	1	5
4.	Customer sales care	3	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	
NO. OF QUESTIONS TO BE ANSWERED		20	Any 4	Any 3	
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.	_____ communication is the use of body language, gestures and facial expressions to convey information to others.	1
ii.	What is stress management?	1
iii.	Name the place where deleted files are placed.	1
iv.	Identify which of the following is a temporary file. a. Project.docx b. Mathsite.tmp c. Both (a) and (b) d. Neither (a) nor (b)	1
v.	_____ entrepreneurship is the process, where women organize all the factors of production, undertake risks, and provide employment to others.	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.	_____ Section is used in long member of chassis.	1
ii.	Body inner trimming is done for _____ main purposes. a. To reduce mechanical components vibrations b. To improve car appearance and comfort. c. To increase mechanical components vibrations d. Both (a) and (b)	1
iii.	Define Piston Displacement.	1
iv.	What is viscosity index?	1
v.	The heat dissipation in cooling system depends upon which factors? (Any two)	1
vi.	What is a disadvantage of gravity fuel supply system?	1

Q. 3	Answer any 5 out of the given 6 questions (1 x 5 = 5 marks)	
i.	Write function of universal joint.	1
ii.	_____ is an inter-mediatory small shaft between the road wheel and the front (dead) axle.	1
iii.	Write types of steering system used in automobile.	1
iv.	The functions of the final drive are to provide a permanent speed reduction and also to turn the drive round through _____ a. 30° b. 60° c. 90° d. 120°	1
v.	Define Yawing.	1
vi.	Wheel balancing helps in minimizing tyre vibration and _____.	1

Q. 4	Answer any 5 out of the given 6 questions (1 x 5 = 5 marks)	
i.	Write use of flywheel puller?	1
ii.	_____ cloth is used first for removing dust.(Wet/ Dry)	1
iii.	Change the air filter every _____. a. 10,000 km b. 25,000 km c. 40,000 km d. 50,000 km	1
iv.	The clogged fuel filter _____ fuel pressure to the vehicle. a. Induces b. Reduces c. maintains d. None of the above.	1
v.	All vehicle manufacturers sell their product through _____.	1
vi.	What is customer service?	1

Q. 5	Answer any 5 out of the given 6 questions (1 x 5 = 5 marks)	
i.	Sales person attends product and sales training courses as requested by _____. a. Customer b. Driver c. Sales Manager d. None of the above.	1
ii.	Write importance of R&D department in automotive industry.	1
iii.	1) Innovation requires _____ a) Lead Time b) Large Investment c) Both (a) and (b) d) None of the above	1
iv.	Microprocessors in autos must withstand temperature swings from _____	1
v.	_____ manual is available with the owner of the vehicle.	1
vi.	Mechanic of the vehicle must go through _____ manual.	1

SECTION B: SUBJECTIVE TYPE QUESTIONS

Answer any 3 out of the given 5 questions on Employability Skills (2 x 3 = 6 marks)

Answer each question in 20 – 30 words.

Q. 6	Enlist the any four parts of speech.	2
Q. 7	Explain any two stress management techniques.	2
Q. 8	Write the different ways through which computer can get infected with virus.	2
Q. 9	Explain any two qualities of an entrepreneur.	2
Q. 10	What is Deforestation?	2

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

Q. 11	Write advantages of Tubeless tyre.	2
Q. 12	Write any four requirements of a good braking system.	2
Q. 13	Write importance of special tools.	2
Q. 14	Explain pneumatic wrenches.	2
Q. 15	Write material and tools requirement for changing of the oil and oil filter.	2
Q. 16	Write contents of service manual.	2

Answer any 3 out of the given 5 questions in 50– 80 words each (4 x 3 = 12 marks)

Q. 17	Write functions of automotive battery.	4
Q. 18	Explain detailed procedure for changing air filter.	4
Q. 19	Explain important aspects of customer service.	4
Q. 20	Enlist top 10 innovations of automobile.	4
Q. 21	Explain sensitive air bag systems.	4