

# CBSE DEPARTMENT OF SKILL EDUCATION

## AUTOMOTIVE

### SUBJECTCODE-804

#### Sample Question Paper for Class-XI

Session2025-26

Max. Time: 3 Hour's

Max. Marks: 60

#### **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-III	1	1	2
2	Self-Management Skills-III	2	1	3
3	ICT Skills-III	1	1	2
4	Entrepreneurial Skills-III	1	1	2
5	Green Skills-III	1	1	2
<b>TOTAL QUESTIONS</b>		<b>6</b>	<b>5</b>	<b>11</b>
<b>NO. OF QUESTIONS TO BE ANSWERED</b>		<b>Any 4</b>	<b>Any 3</b>	<b>07</b>
<b>TOTAL MARKS</b>		<b>1 x4=4</b>	<b>2 x3=6</b>	<b>10 MARKS</b>

#### **PART-B:- SUBJECT SPECIFIC SKILLS (50MARKS)**

UNIT NO.	NAME OF THE UNIT	OBJECTIVE TYPE QUESTIONS	SHORT ANS. TYPE QUES.- I	SHORT ANS. TYPE QUES.- II	DESCRIPTIVE/ LONG ANS. TYPE QUESTIONS	TOTAL QUESTIONS
		1 MARK EACH	2 MARKS EACH	3 MARKS EACH	4 MARKS EACH	
1	Regular Maintenance of an Engine	5	1	1	2	9
2	Regular Maintenance of Transmission System	7	1	-	-	8
3	Regular Maintenance of Gear	5	1	1	-	7
4	Service of Wheels	5	1	-	1	7
5	Regular Maintenance of Tubes and Tires	4	-	-	1	5
6	Regular Maintenance of Brakes	6	1	1	1	9
<b>TOTAL QUESTIONS</b>		<b>32</b>	<b>5</b>	<b>3</b>	<b>5</b>	<b>45</b>
<b>NO. OF QUESTIONS TO BE ANSWERED</b>		<b>26</b>	<b>Any 3</b>	<b>Any 2</b>	<b>Any 3</b>	<b>34</b>
<b>TOTAL MARKS</b>		<b>1x 26= 26</b>	<b>2 x3=6</b>	<b>3 x2= 6</b>	<b>4 x3=12</b>	<b>50 MARKS</b>

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**Session-2025-26**

**Max. Time: 3 Hours**

**Max. Marks: 60**

## **General Instructions :-**

1. Please read the instructions carefully.
2. This Question Paper consists of **24 questions** in two sections – Section A & Section B.
3. Section A has Objective type questions where as Section B contains Subjective type questions.
4. Out of the given **(6+18=) 24 questions**, a candidate has to answer **(6+11=) 17 questions** in the allotted (maximum) time of 3 hours.
5. All questions of a particular section must be attempted in the correct order.

## **6. SECTION-A :- OBJECTIVE TYPE QUESTIONS (30 MARKS)**

- i. This section has 06 questions.
- ii. There is no negative marking.
- iii. Do as per the instructions given.
- iv. Marks allotted are mentioned against each question/part.

## **7. SECTION-B:- SUBJECTIVE TYPE QUESTIONS (30 MARKS)**

- i. This section contains 18 questions.
- ii. A candidate has to do 11 questions.
- iii. Do as per the instructions given.
- iv. Marks allotted are mentioned against each question/part.

## SECTION-A:-OBJECTIVE TYPE QUESTIONS

<b>Q. 1</b>	<b>Answer any 4 out of the given 6 questions on Employability Skills (1 x 4 = 4 marks)</b>	
<b>i.</b>	Select the words we should use when we communicate verbally. a) Use precise words b) Use fixed words c) Use straight words d) Use simple words	<b>1</b>
<b>ii.</b>	_____ Occurs when one or more group members rely on the efforts of other group members and fail to contribute their time and effort. a) Loss of individuality b) Social loafing c) Team cohesion d) Work team structure	<b>1</b>
<b>iii.</b>	Raju works hard to get the best student award at the end of the year. Identify the type of motivation is this. a) External b) Not any specific type of motivation c) Internal d) Both internal and external	<b>1</b>
<b>iv.</b>	Select the shortcut key used to create a new document. a) Ctrl + m b) Ctrl + d c) Ctrl + c d) Ctrl + n	<b>1</b>
<b>v.</b>	One's tendency to respond in a certain way towards a certain idea, object, person, or situation is _____. a) Open mindedness b) Perseverance c) Attitude d) Independent	<b>1</b>
<b>vi.</b>	Write main role of the Government in a green economy.	<b>1</b>

<b>Q. 2</b>	<b>Answer any 5 out of the given 7 questions (1 x 5 = 5 marks)</b>	
<b>i.</b>	Which of the following quantities will reducedue to the leakage of combustible gases -----? a) Resistance b) Temperature c) Mileage and pickup d) Tractive force	<b>1</b>
<b>ii.</b>	By changing the gear ratio, we exploit gearbox in a transmission to overcome _____. a) Friction b) Traction c) Temperature d) Resistances	<b>1</b>

<b>iii.</b>	Identify the component that allows a vehicle's wheels to rotate at different rates when making turns. a) Differential unit b) Rear axle c) Final drive d) Gear box	<b>1</b>
<b>iv.</b>	While changing gears, determine how the clutch must be positioned. a) It must be Partially disengaged b) It must be Engaged completely c) It must be Disengaged completely d) It must be Partially engaged	<b>1</b>
<b>v.</b>	Which of the following, in addition to side thrust, should be supported by the tyres ? a) Driving thrust b) Sprung weight c) Unbalanced forces d) Bending effect	<b>1</b>
<b>vi.</b>	During braking, the kinetic energy of any vehicle is converted into heat energy by_____. a) Means of friction b) Means of acceleration c) Means of motion d) Means of turning of vehicle	<b>1</b>
<b>vii.</b>	The_____gauge can be inserted through the inspection hole between brake drum and brake shoe to measure the clearance between them.	<b>1</b>

<b>Q. 3</b>	<b>Answer any 6 out of the given 7 questions (1 x6 = 6 marks)</b>	
<b>i.</b>	Leakage of lubrication oil can be stop by changing. a) Gasket oil seal b) Fuel filter c) Nozzles d) Cylinder block	<b>1</b>
<b>ii.</b>	Write any one Function of differential unit.	<b>1</b>
<b>iii.</b>	In motor cycle lubricating oil is changed at a) 500 km to 700 Km b) 2000 KM to 3500 KM c) 1000 km to 2000 Km d) 10000 Km to 15000 Km	<b>1</b>
<b>iv.</b>	Type of wheels consist of two parts, steel rim which is generally well based to receive the tyre and pressure steel disc a) Light alloy wheel b) Disc wheels c) Alloy wheels d) Forged wheels	<b>1</b>
<b>v.</b>	Any hole in the tubeless tyre can be repaired simply by a) Rubbing b) Rubber plugging c) Heating d) Pasting	<b>1</b>

<b>vi.</b>	The material used for brake lining should be.....coefficient of friction a) High b) Moderate c) Low d) Medium	<b>1</b>
<b>vii.</b>	The braking power must be proportional to a) Rolling resistance of tyre b) Weight and speed of vehicle c) Coefficient of friction d) Total area of contact surfaces	<b>1</b>
<b>Q. 4</b>	<b>Answer any 5 out of the given 6 questions (1 x5 = 5 marks)</b>	
<b>i.</b>	Which of the following situations shouldn't need utilizing water pressure ? a) Hot b) Cool c) Standby d) Running	<b>1</b>
<b>ii.</b>	Propeller shaft is used to transmit power between Gearbox and final drive a) Final drive and differential b) Gearbox and final drive c) Clutch assembly and gearbox d) Engine and front axle	<b>1</b>
<b>iii.</b>	To overcome resistances, it is necessary to increase the_____ a) Speed b) Velocity ratio c) Tractive effort d) Lubrication	<b>1</b>
<b>iv.</b>	When clutch shaft transmits the drive to counter shaft and then power is transmitted to... a) Propeller shaft b) Drive shaft c) The main shaft of gear d) Counter shaft	<b>1</b>
<b>v.</b>	The tubeless and tube tyre's are called.....	<b>1</b>
<b>vi.</b>	In motorcycle the mechanical brake linkage is directly mounted with the brake operating lever and..... a) Locked by a nut b) Joined by a lever c) Joined by a spring d) Locked by a pin	<b>1</b>

<b>Q. 5</b>	<b>Answer any 5 out of the given 6 questions (1 x5 = 5 marks)</b>	
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<b>i.</b>	Identify the process that is final and finest adjustment at the recommended interval to keep the engine's performance as good as original. a) Carbonizing b) Balancing c) Knocking d) Tuning	<b>1</b>
<b>ii.</b>	When the clutch is engaged ensure that it transmit power completely without any _____. a) Slippage b) Delay c) Interval d) Friction	<b>1</b>
<b>iii.</b>	One of the main functions of lubricating oil is to reduce friction and also to provide a _____. a) Cushioning effect b) Compression effect c) Slip d) Locking mechanism	<b>1</b>
<b>iv.</b>	Which of the following vehicles use Light alloy cast or forged wheel ? a) Cars b) Trucks c) Buses d) Three-wheeler	<b>1</b>
<b>v.</b>	It is suggested that a vehicle's four wheels rotated crosswise after every _____. a) 12000 km b) 5000 km c) 15000 km d) 10000 km	<b>1</b>
<b>vi.</b>	In overhauling of master cylinder remove the locking ring provided for locking the master cylinder piston with the help of _____.	<b>1</b>

<b>Q. 6</b>	<b>Answer any 5 out of the given 6 questions (1 x5 = 5 marks)</b>	
<b>i.</b>	How much heat can be removed by cooling system of car ?	<b>1</b>
<b>ii.</b>	Clutch unit is fitted between _____. a) Final drive and differential b) Gearbox and final drive c) Engine assembly and gearbox d) Engine and front axle	<b>1</b>
<b>iii.</b>	Choose the defect that may cause hard shifting and gear slips out of mesh. a) Slackness b) Misalignment c) Thrust d) Improper alignment	<b>1</b>
<b>iv.</b>	Select the component connected to front axle beam and hold the wheel hub. a) Brake drum b) Stub axle c) Wheel bearing d) Wheel studs	<b>1</b>

v.	Which of the following tyre is completely solid and is mounted on the wheel rim ? a) Solid tyre b) Pneumatic tyre c) Tubeless tyre d) Tube tyre	1
vi.	Identify the procedure of removing air from hydraulic brake. a) Brake fanning b) Brake bleeding c) Brake cleaning d) Brake overhauling	1

### **SECTION-B:- SUBJECTIVE TYPE QUESTIONS**

**Answer any 3 out of the given 5 questions on Employability Skills (2x3= 6 marks) Answer each question in 20 – 30 words.**

Q. 7	Explain effective communication.	2
Q. 8	Write the benefits of team work.	2
Q. 9	Give advantages of using a header or footer in a word processor document.	2
Q. 10	What does the word "business idea" mean ?	2
Q. 11	Explain the importance of the Swachh Bharat Abhiyan in 4 to 5 lines.	2

**Answer any 3 out of the given 5 questions in 20– 30 words each (2 x3= 6 marks)**

Q. 12	Mention the procedure for checking the lubricating oil leakage.	2
Q. 13	Write down the functions of differential unit.	2
Q. 14	What is lubrication system and its two main functions ?	2
Q. 15	Give a description of the wheel play adjustment process.	2
Q. 16	List the several functions of a good braking system.	2

**Answer any 2 out of the given 3 questions in 30–50 words each (3 x 2 = 6 marks)**

Q. 17	What procedures should be followed to check the cooling system's water Circulation ?	3
Q. 18	Summarize the methodology for determining the lubricating oil quality.	3
Q. 19	Explain the steps used to remove trapped air from the fluid line.	3

**Answer any 3 out of the given 5 questions in 50–80 words each (4 x3= 12 marks)**

Q. 20	Make a note of the different steps that must be taken while checking the ignition and valve timing.	4
Q. 21	Explain the role of an automobile's transmission system. Write down the Various gearbox and propeller shaft functions.	4
Q. 22	What procedures must be followed for servicing mechanical brakes ?	4
Q. 23	What is hub greasing? Explain the steps of removal of a wheel from an axle.	4

**Q. 24**

Make a list of the various equipment and materials required to repair puncture in a tubeless tyre. Write down steps of tubeless tyre punctures repaired.

**4**

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