

CBSE | DEPARTMENT OF SKILL EDUCATION

AUTOMOTIVE (SUBJECT CODE 804)

CLASS XII (SESSION 2021-2022)
BLUE-PRINT FOR SAMPLE QUESTION PAPER FOR TERM - II

Max. Time Allowed: 1½ Hours (90 min)

Max. Marks: 30

PART A - EMPLOYABILITY SKILLS (05 MARKS):

UNIT NO.	NAME OF THE UNIT	NO. OF QUESTIONS - VSA (1 MARK EACH)	NO. OF QUESTIONS - SA (2 MARKS EACH)	NO. OF QUESTIONS - LA (4 MARKS EACH)	TOTAL NUMBER OF QUESTIONS
1	Entrepreneurial Skills-IV	2	1	-	3
2	Green Skills-IV	2	1	-	3
TOTAL QUESTIONS		4	2	-	06
NO. OF QUESTIONS TO BE ANSWERED		Any 3	Any 1	-	04
TOTAL MARKS		3 x 1 = 3 Marks	1 x 2 = 2 Marks	-	05 Marks

PART B - SUBJECT SPECIFIC SKILLS (17)+ COMPETENCY BASED QUESTIONS (08) = (25 MARKS):

UNIT NO.	NAME OF THE UNIT	NO. OF QUESTIONS - VSA (1 MARK EACH)	NO. OF QUESTIONS - SA - I (2 MARKS EACH)	NO. OF QUESTIONS - SA - II (3 MARKS EACH)	NO. OF QUESTIONS - LA (4 MARKS EACH)	TOTAL NUMBER OF QUESTIONS
1	Transmission and Final Drive system	2	2	1	1	6
2	Automotive Electrical and electronic system	3	2	2	2	9
3	Motor Vehicle Act and Rules	2	1	1	-	4
TOTAL QUESTIONS		07	05	04	03	19
NO. OF QUESTIONS TO BE ANSWERED		05	03	02	02	12
TOTAL MARKS		5 x 1 = 05 Marks	3 x 2 = 06 Marks	2 x 3 = 06 Marks	2 x 4 = 08 Marks	25 Marks
TOTAL MARKS		(5+25)= 30 MARKS				

CBSE | DEPARTMENT OF SKILL EDUCATION

AUTOMOTIVE (SUBJECT CODE 804)

CLASS XII (SESSION 2021-2022) SAMPLE QUESTION PAPER FOR TERM - II

Max. Time Allowed: 1 ½ Hours (90 min)
30

Max. Marks:

General Instructions:

1. Please read the instructions carefully
2. This Question Paper is divided into 03 sections, viz., Section A, Section B and Section C.
3. Section A is of 05 marks and has 06 questions on Employability Skills.
 - a) Questions numbers 1 to 4 are one mark questions. Attempt any **THREE** questions.
 - b) Questions numbers 05 and 06 are two marks questions. Attempt any **ONE** question.
4. Section B is of 17 marks and has 16 questions on Subject specific Skills.
 - a) Questions numbers 7 to 13 are one mark questions. Attempt any **FIVE** questions.
 - b) Questions numbers 14 to 18 are two marks questions. Attempt any **THREE** questions.
 - c) Questions numbers 19 to 22 are three marks questions. Attempt any **TWO** questions.
5. Section C is of 08 marks and has 03 competency-based questions.
 - a) Questions numbers 23 to 25 are four marks questions. Attempt any **TWO** questions.
6. Do as per the instructions given in the respective sections.
7. Marks allotted are mentioned against each section/question.

SECTION A

(3 + 2 = 5 marks)

Answer any 03 questions out of the given 04 questions		1 x 3 = 3
Q.1	Name one barrier to becoming an entrepreneur.	1
Q.2	Define " Persistence " associated to an entrepreneur.	1
Q.3	Which engineer's job is to design future transport that will be sustainable?	1
Q.4	Write full form of ITUC.	1
Answer any 01 question out of the given 02 questions		1 x 2 = 2
Q.5	Explain the different steps to creativity.	2
Q.6	Explain the roles of green jobs.	2

SECTION B**(5 + 6 + 6 = 17 marks)**

Answer any 05 questions out of the given 07 questions		1 x 5 = 5
Q.7	In four wheel drive and rear wheel drive vehicles, Which component serves to transmit the drive force generated by the engine to the axles?	1
Q.8	Define " Bouncing " in oscillation of sprung weight.	1
Q.9	Give function of a commutator in a generator.	1
Q.10	" Warning lamp does not appear when ignition switch is switched on ". Give possible reason for this.	1
Q.11	" I am rectangular shaped copper block. I conduct heavy current to the armature ". Who I am?	1
Q.12	As per Motor Vehicle Act, What is the minimum time period beyond which if driving license is lost and expired, the case may be forwarded to the head quarter of transport department to obtain permission?	1
Q.13	In case of Private Vehicles (Petrol), what is the fitness certificates validity?	1
Answer any 03 questions out of the given 05 questions		2 x 3 = 6
Q.14	Enlist different drawbacks of Semi-Floating type rear axle.	2
Q.15	Briefly explain the operation of differential while vehicle taking a turn. Give suitable diagram also.	2
Q.16	Write down the main circuits and main parts of starting system of an automobile.	2
Q.17	Briefly explain the horn circuit of a car using a labelled diagram.	2
Q.18	Explain evaporative emission control. Give suitable diagram also.	2
Answer any 02 questions out of the given 04 questions		3 x 2 = 6
Q.19	Explain spider type variable velocity joint using suitable diagram.	3
Q.20	Enlist advantages (at least 6) of an alternators over a dynamo.	3
Q.21	Explain the drive mechanism of self-starter assembly using suitable diagram.	3
Q.22	Explain different types of road safety signs. Draw minimum two road safety signs of each type.	3

SECTION C
(COMPETENCY BASED QUESTIONS)

(2 x 4 = 8 marks)

Answer any 02 questions out of the given 03 questions		
Q.23	Victor found some noise coming out of his car's transmission in neutral speed position. Write down the important points (Any 4) to be checked for fault and their diagnosis.	4
Q.24	Write down the location and function of sensors (Any 4) listed below: a) Air Flow Sensor b) Air Temperature Sensor c) Oxygen Sensor d) Throttle Position Sensor e) Vehicle Speed Sensor	4
Q.25	Ram Complained to the technician that the cranking motor of his car keeps of running even after release of starting switch. Give the possible causes and their remedies. (any 4)	4