

# **CBSE – DEPARTMENT OF SKILL EDUCATION**

**AUTOMOTIVE (SUBJECT CODE 804)**

**Sample Question Paper**

**Class XII (Session 2019–2020)**

**Time: 3 Hours**

**Max. Marks: 60**

## **General Instructions:**

1. *This Question Paper consists of two parts viz. Part A: Employability Skills and Part B: Subject Skills.*
2. **Part A: Employability Skills (10 Marks)**
  - i. *Answer any 4 questions out of the given 6 questions of 1 mark each.*
  - ii. *Answer any 3 questions out of the given 5 questions of 2 marks each.*
3. **Part B: Subject Skills (40 Marks):**
  - i. *Answer any 10 questions out of the given 12 questions of 1 mark each.*
  - ii. *Answer any 5 questions from the given 7 questions of 2 marks each.*
  - iii. *Answer any 5 questions from the given 7 questions of 3 marks each.*
  - iv. *Answer any 3 questions from the given 5 questions of 5 marks each.*
4. ***This question paper contains 42 questions out of which 30 questions are to be answered.***
5. *All questions of a particular part/section must be attempted in the correct order.*
6. *The maximum time allowed is 3 hrs.*

## **PART A: EMPLOYABILITY SKILLS (10 MARKS)**

**Answer any 4 questions out of the given 6 questions of 1 mark each:**

1.	Hearing is _____(passive /active)	(1)
2.	Define self management skills	(1)
3.	Which of the following is not a self-management skill? (a) Problem solving (b) Bargaining (c) Understanding self (d) Confidence building	(1)
4.	What is the aim of entrepreneurship? (a) Earn a profit (b) Solve customers need innovatively (c) Both of the above (d) None of the above	(1)
5.	Which of the following options describe a green economy correctly? A green economy _____. (a) uses less resources	(1)

	(b) uses more resources (c) causes more pollution (d) wastes more items	
6.	What does GPS stand for? (a) Global Positioning System (b) Global Payment System (c) Global Program System (d) Global Pointing System	(1)

**Answer any 3 questions out of the given 5 questions of 2 marks each:**

7.	What is the difference between hearing and listening?	(2)
8.	What is communication?	(2)
9.	What are self motivation tips and techniques?	(2)
10.	What are the benefits of entrepreneurship?	(2)
11.	What are green skills .Write about some of the areas in which green skills contribute to the sustainable development?	(2)

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

**Answer any 10 questions out of the given 12 questions:**

12.	What is full form of ECM.	(1)
13.	If the reading of the specific gravity of electrolyte which is filled in the battery is shown by hydrometer as 1.280 then your: a. Battery is full charged b. Battery is $\frac{3}{4}$ <sup>th</sup> part charged c. Battery is full $\frac{1}{2}$ <sup>th</sup> part charged d. None of the above	(1)
14.	_____ adjust the length of the propeller shaft when demanded by the rear axle movements.	(1)
15.	A propeller shaft is tubular instead of solid because a. it is more strong b. a solid shaft is weaker c. it has smaller sag d. it resist to 'wind- up'	(1)
16.	'Contact breaker points' are generally made of a. Plastic b. Steel c. Copper	(1)

	d. Tungsten	
17.	The vehicles which are generally running in hilly-road, are given. a. Positive camber b. Zero camber c. Negative camber d. None of the above	(1)
18.	For a private new vehicle the initial fitness certificate is valid for a) 20 years b) 15 years c) 10 years d) 5 years	(1)
19.	The violation of which of the following road safety signs is a legal offence? a) Mandatory signs b) Cautionary signs c) Information signs d) All of the above	(1)
20.	The distributor serves the following purposes in the ignition system a. It operates break and make mechanism b. It distributes high tension current to spark plug at correct time c. both (a) and (b) d. None of above	(1)
21.	Spark plug cleaner and tester is used for _____. a. sandblast cleaning. b. gap testing. c. both a and b. d. none of the above.	(1)
22.	A positive camber causes the wheels to _____.	(1)
23.	The purpose of a suspension damper is to a. Resist the road shocks b. Reduce the 'bump' stroke of the spring c. Absorb the energy stored in the spring d. All above	(1)

**Answer any 5 questions out of the given 7 questions of 2 marks each:**

24.	What is the role of power steering in automobiles .Name different types of power steering?	(2)
25.	What are the functions of propeller shaft?	(2)
26.	Write the eligibility for obtaining a driving license?	(2)

27.	What are the functions of shock absorber in the suspension system?	(2)
28.	Write the function of cut-out?	(2)
29.	What is hydrometer used for?	(2)
30.	Define sprung weight?	(2)

**Answer any 5 questions out of the given 7 questions of 3 marks each:**

31.	How is 'shock absorber' replaced .Explain in brief?	(3)
32.	Draw a neat sketch of micrometer and label its different parts.	(3)
33.	Define Toe-angle (Toe-in and Toe-out) with diagram.	(3)
34.	Describe leaf spring with a neat sketch.	(3)
35.	Write the advantages of alternator over dynamo.	(3)
36.	Explain in brief techniques of driving a) At night b) In slippery Condition	(3)
37.	Write the functions of rear axle?	(3)

**Answer any 3 questions out of the given 5 questions of 5 marks each:**

38.	Write the causes of Hard steering following trouble shooting and its remedial action.	(5)
39.	Explain the working of 'dial gauge' with the help of neat sketch.	(5)
40.	Draw the traffic signs for any <i>two</i> of the following a) No parking b) Overtaking prohibited c) No entry d) Stop e) One way	(5)
41.	Draw a circuit diagram of battery ignition system and explain its working.	(5)
42.	With the help of neat sketch write about the construction of differential assembly.	(5)