

# CBSE | DEPARTMENT OF SKILL EDUCATION

## AUTOMOTIVE (SUBJECT CODE 404)

### CLASS X (SESSION 2021-2022) BLUE-PRINT FOR SAMPLE QUESTION PAPER FOR TERM -1

Max. Time Allowed: 60 Minutes (1 Hr.)

Max. Marks: 25

#### PART A - EMPLOYABILITY SKILLS (05 MARKS):

UNIT NO.	NAME OF THE UNIT	NO. OF QUESTIONS (1 MARK EACH)
1	Communication Skills-II	2
2	Self-Management Skills-II	2
3	Information and Communication Technology Skills-II	2
TOTAL QUESTIONS		6 Questions
NO. OF QUESTIONS TO BE ANSWERED		Any 5 Questions
TOTAL MARKS		1 x 5 = 5 Marks

#### PART B - SUBJECT SPECIFIC SKILLS (20 MARKS):

UNIT NO.	NAME OF THE UNIT	NO. OF QUESTIONS (1 MARK EACH)
1	Automobile and its components	14
2	Tools	9
3	Vehicle Servicing	4
TOTAL QUESTIONS		27 Questions
NO. OF QUESTIONS TO BE ANSWERED		20 Questions
TOTAL MARKS		1 x 20 = 20 MARKS

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Max. Time Allowed: 60 Minutes (1 Hr.)

Max. Marks: 25

#### 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.
4. Section B is of 15 marks and has 20 questions on Subject specific Skills.
5. Section C is of 05 marks and has 07 competency-based questions.
6. Do as per the instructions given in the respective sections.
7. Marks allotted are mentioned against each section/question.
8. All questions must be attempted in the correct order

#### SECTION A

Answer any 5 questions out of the given 6 questions on Employability Skills (1 x 5 = 5 marks)

1.	Which C's implies being particular and clear rather than fuzzy and general. a) Clarity b) Concreteness c) Courtesy d) Correctness	1
2.	Feedback such as "good job" or "you did great." Are kind of which feedback a) Descriptive feedback b) Specific Feedback c) General feedback d) Informal feedback	1
3.	If students are unable to handle their assignment submission deadlines then which type of stress may induce? a) Mental stress b) Physical stress c) Social stress d) Positive stress	1
4.	_____ includes a series of postures and breathing exercises practiced to achieve control of body and mind a) Meditation b) Physical Exercise c) Listening music d) Yoga	1

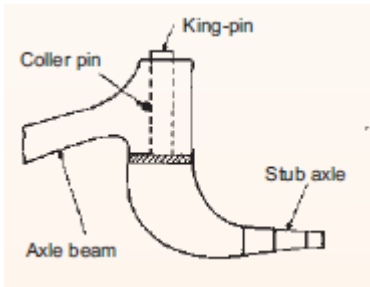
5.	Which option allows the user to change various settings in your computer? a) Shut down b) All Programs c) Control panel d) Search box	1
6.	Select option to delete file permanently a) Ctrl+A b) Ctrl+C c) Ctrl+V d) Shift+delete	1

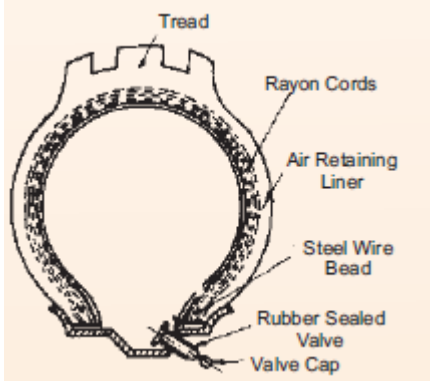
### SECTION B

Answer any 15 questions out of the given 20 questions

(1 x 15 = 15 marks)

7.	In which type of chassis engine is completely fitted in the driver's cabin a) Full forward b) Semi-forward c) Bus chassis d) Engine in front	1
8.	The hood is made in a _____ piece a) Single b) Two c) Three d) Four	1
9.	The volume of cylinder (including the combustion chamber) above the piston when it is in the T.D.C. position is referred to as _____ a) Stroke b) Clearance volume c) Piston displacement d) Engine capacity	1
10.	Relative change of viscosity with temperature is called _____ a) Physical stability b) Chemical stability c) Flash point d) Viscosity index	1
11.	The engine gives best performance at temperature from _____ degree Celsius, which is called the optimum temperature limit. a) 10 to 25 b) 30 to 60 c) 70 to 85 d) 100 to 120	1

12.	Long form of MPFI engine is _____ a) Main Point Fuel Injection b) Main Point Filter Injection c) Multi Point Fuel Injection d) Multi Position Fuel Injection	1
13.	Which resistance depends upon material and quality of the road surface a) Rolling Resistance b) Gradient Resistance c) Air Resistance d) Total Resistance	1
14.	Identify types of stub axle  <p>The diagram shows a cross-section of a stub axle assembly. A vertical King-pin is shown at the top, connected to a horizontal Coller pin. Below the coller pin is the Axle beam, which is curved. At the bottom of the axle beam is the Stub axle. The diagram illustrates the mechanical connection between the steering knuckle (via the king-pin) and the axle beam.</p> a) Elliot types b) Reversed Elliot c) Lamoine type d) Reversed lamoine type	1
15.	Which type of steering gear box is used in Swaraj Mazda a) Worm and Worm wheel b) Worm and Sector c) Rack and Pinion d) Worm and Nut	1
16.	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) 180 °	1
17.	The initial curvature provided in a leaf spring is called _____ a) Camber b) Yawing c) Dipping d) Pitching	1

<p>18.</p>	<p>Identify Type of tyre</p>  <p>a) Traditional tube tyre b) Tubeless tyre c) Solid tyre d) Treated tyre</p>	<p>1</p>
<p>19.</p>	<p>In order to bring the vehicle to rest kinetic energy must be equals to _____</p> <p>a) zero b) 100 c) 120 d) 184</p>	<p>1</p>
<p>20.</p>	<p>_____ is the source of electricity in automobile when the engine is running</p> <p>a) Cutout unit b) current regulator c) Ignition coil d) Alternator</p>	<p>1</p>
<p>21.</p>	<p>Which spanner is open at one end and close at other end?</p> <p>a) Ring spanner b) Box spanner c) Combination spanner d) Open ended spanner</p>	<p>1</p>
<p>22.</p>	<p>The _____ is work holding device use to hold the work for operation like sawing, filing, chipping, tapping, threading, bending of small jobs, fitting etc.</p> <p>a) Spanner b) Mallet c) Bench vice d) Chisel</p>	<p>1</p>
<p>23.</p>	<p>To measure distance along straight line use _____ tool</p> <p>a) steel ruler b) External caliper c) Internal caliper d) screw gauge</p>	<p>1</p>

24.	Least count of Micro meter is _____ a) 0.001 mm b) 0.01 mm c) 0.1 mm d) 1mm	1
25.	Multi meter is also known as _____ a) Volt Ohm meter b) Amp Ohm meter c) Tachometer d) Hydrometer	1
26.	A _____ is an instrument that measures the working speed of an engine a) Multi Meter b) Tachometer c) Hydrometer d) Multi tester	1

**SECTION C**  
**(COMPETENCY BASED QUESTIONS)**

Answer any 5 questions out of the given 7 questions

(1 x 5 = 5 marks)

27.	Ram is a new mechanic and he is doing work on engine, while dismantling the complicated parts of engine Which tool he will use, which increases life of parts and will reduce damage. a) Hand tool b) Measuring tool c) Tappet wrench d) Special tool	1
28.	Rohan is doing maintenance work at home of his own vehicle, lock nut is not removing with the help of spanner so suggest that which wrench is useful to precisely apply a specific torque on work piece. a) Clutch holding tool b) Torque wrench c) Tappet Wrench d) Flywheel puller	1
29.	Namrata is working as a design engineer in industry, Which type of air compressor she will prefer for heavy shop or industrial work a) Rotary screw air compressor b) Reciprocating air compressor c) Positive compressor d) Negative compressor	1

30.	Sunny is cleaning / washing his car at home, While cleaning the vehicle he must use a) Dish soap b) Detergent c) Car liquid soap d) Washing power	1
31.	Jivan was driving a car suddenly he realizes that he has not checked engine oil level so for the same he must use _____ a) Filler gauge b) Screw gauge c) Dip stick d) Dial gauge	1
32.	Uday was reading a vehicles owner's manual suddenly he found that Changing of Air filter is mandatory at every _____ km a) 10,000 km b) 20,000 km c) 40,000 km d) 50,000 km	1
33.	Works manager Gita is giving training to new mechanic about vehicle servicing, she instructed to all mechanic that, Air filter must be cleaned by a) Chemical b) Air Blower c) Oil d) Water	1