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Time : 1½ Hours**Automobile****Subject Code****(NSQF)**

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Total No. of Questions : 43**(Printed Pages : 8)****Maximum Marks : 40**

INSTRUCTIONS : (i) Answer each question on a fresh page.

(ii) Write the question number and sub-question number clearly.

(iii) All questions are compulsory.

(iv) Figures to the right indicate full marks.

Select and write the most appropriate alternative given below each statement and rewrite the complete statement : **3**

1. The process of developing a business plan, Launching and running a business using a innovative idea to meet customer need and to make a more profit is called

- Entrepreneurship development
- Sustainable development
- Infrastructure development
- Skill development

2. In terms of green energy in automobile, which one of the vehicle produces the Zero Emissions Pollution ?

- CNG
- Diesel
- Petrol
- Electric

3. The word communication is derived from origin.
- French
 - Russian
 - Indian
 - Latin
4. Which of the following source of energy is a renewable resource ?
- Wood
 - Petrol
 - Solar Energy
 - Coal
5. The Ability to take the Risk, Hardworking, Lots of Patience, knowledge of product and Services, positive attitude towards any problem are the of Good Entrepreneur.
- Drawbacks
 - Skill
 - Qualities
 - Uses
6. The sentences which asked questions and which ends with a question mark are called sentences.
- Interrogative
 - Imperative
 - Declarative
 - Exclamatory

Answer the following questions in *two to four* sentences : 4

7. What are the benefits of working independently ? (any *two* points)
8. Write down the command for the following short cut keys :
 - (a) Control + X
 - (b) Control + C
 - (c) Control + V
 - (d) Control + S

Answer the following questions in *one* sentence : 3

9. Explain Communication Barrier.
10. What is 'Trade Business' in Entrepreneurship development ?
11. What is the importance of sustainable development ?

Answer the following statement are True or False : 1

12. The Steering Gear box is used to covert the rotary motion of the steering wheel into the To and Fro motion of the link rod of steering linkage.
13. The Ring spanner is used to tighten the nuts or bolts with a specified amount of torque recommended by the car manufacturer.

Give single term for the following definition : 1

14. Name the system which allows the key-less entry in the vehicle.
15. Name the person who explains fully to the customer about the product, performance, application and benefits at the time of selling the vehicle.

Compare the co-ordination with the first pair and complete the second pair : 1

16. Suspension for Light vehicle : Mac-pherson strut

Suspension for Heavy vehicle :

17. GPS : Global Positioning system

ABS :

Answer the following questions in *two to four* sentences : 4

18. Write any *two* advantages of Tubeless tyre over Tube tyre.
19. Write any *four* requirements of Good braking system.

Answer the following questions in *one* sentence : 3

20. What are the main important aspects of customer service ?
21. What is the use of Bench Vice ?
22. Explain 6×2 drive chassis vehicle.

Select and write the most appropriate alternative given below each statement and rewrite the complete statement : **3**

23. As the temperature of the engine increases, the viscosity of the engine oil

- Increases
- Remains same
- Decreases
- Becomes Hot

24. A salesperson should greet the Customers with the

- Angry face
- Sad face
- Confused face
- Smiling face

25. The long propeller shaft is of two sections and it is supported to the chassis frame with the help of

- Central bearing
- Y-shaped Yoke
- Slip joint
- Universal Joints

26. While performing the work with the punch and chisel tools, we require to strike on it.

- Screw driver
- Hammer
- Hand Hacksaw
- Snip joints

27. The first company to install the ABS system in production cars in the 1978 is

- Mitsubishi
- Toyota
- Mercedes-Benz
- Audi

28. The technology which allows the driver to spot animal, pedestrian and other vehicle using thermal energy at night time is

- Blind spot detection system
- Night vision assist system
- Rollover prevention system
- Electronic stability system

Answer the following questions in *two to four* sentences : 4

29. Differentiate between Sprung Weight and Un-Sprung Weight of Suspension system ? (any 2 points each)
30. Write down any *four* components of water cooling system ?

Answer the following questions in *one* sentence : 3

31. Define Bottom Dead Centre (BDC).
32. Classify the Engine, According to the number of engine cylinders.
33. Name any *two* different types of Stub Axle ?
34. Match the following items in column 'A' with correct item in column 'B' : 1

Column 'A'

Column 'B'

- | | |
|------------------------------------|------------------------|
| (i) To check the engine Oil level | (a) Oil Sump |
| (ii) Engine oil is drained through | (b) Oil Filter |
| | (c) Oil Pressure Gauge |
| | (d) Oil dip stick |

Give single term for the following definitions : 1

35. Which one of the Electric tools is also known as Multi-Tester and Volt-Ohms Meter ?
36. Name the service workshop equipment, which raises the vehicle high enough to carry out the service works under the vehicle.

Compare the co-ordination with the first pair and complete the second pair : 1

37. Air Filter : Supply the Clean Air into the Engine

Fuel filters :

38. Engine Oil : Lubricate all the Engine parts

Engine Coolant :

Answer the following questions in *two to four* sentences : 4

39. Write any *four* safety precaution to be taken, while washing of vehicle.

40. Write any *four* benefits for timely cleaning and replacing the Air Filters.

Answer the following questions in *one* sentence : 3

41. How much time is required to Sense the Impact for the front Air Bags during the Time of Accidents ?

42. What is Hybrid Car ?

43. Name *two* types of compressor used in Automobile Workshop.