

## Modular Employable Skills

### Basic Automotive Servicing 2 wheeler 3 wheeler

Name of VTP/TC: - .....

Name of Candidate: - ..... Father's name: - .....

Assessment Batch Number: - ..... Candidate ID: - .....

Date & Signature of Candidate)

(Date & Signature Assessor)

#### Section-A

#### Multiple Choice Questions (MCQ)

30\*1

**1. Overhead camshaft engines will not have**

- (A) Tappet
- (B) Rocker shaft
- (C) Poppet valve
- (D) Push rod

**2. Poppet valves are not present in**

- (A) 2 stroke petrol engines
- (B) 4 stroke petrol engines
- (C) 4 stroke L.P.G. engines
- (D) 4 stroke diesel engines

**3. Tappet clearance is measured by**

- (A) Feeler gauge
- (B) Dial gauge
- (C) Vernier caliper
- (D) Micro meter

**4. The connecting rod big end bearing for multi cylinder engines are**

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- (A) Bush bearing
- (B) Ball bearing
- (C) Shell bearing
- (D) Roller bearing

**5. The number of universal joints used in the propeller shaft of a front engine rear drive car is**

- (A) 1
- (B) 2
- (C) 3
- (D) 4

**6. The alternators in automobiles are driven by**

- (A) Gear drive
- (B) Chain and sprocket drive
- (C) V-belt drive
- (D) Flat belt drive

**7. MPFI engines will not have**

- (A) Fuel injectors
- (B) Carburetor
- (C) Fuel pump
- (D) Spark plugs

**8. Starter motors used in Automobiles are**

- (A) D.C. series motor
- (B) D.C. shunt motor
- (C) D.C. Compound motor
- (D) A.C. Squirrel cage motor

**9. The SAE grade of lubricant oil used of the engine lies between**

- (A) 5 & 10
- (B) 10 & 20
- (C) 20 & 40
- (D) 40 & 80

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**10. Number of differential units in a 4 wheel drive vehicle is**

- (A) 1
- (B) 2
- (C) 3
- (C) 4

**11. Why brakes are used**

- a) to avoid accidents
- b) to stop the vehicle
- c) to start the vehicle
- d) to run the vehicle

**12. Work of coolant is to**

- a) heat the engine parts
- b) lubricate the engine
- c) cool the engine
- d) improve the efficiency

**13. Effect of proper greasing**

- A will reduce excess heating
- B cool the engine parts
- C will heat the engine
- D none of the above

**14. Third stroke of the Petrol engine cycle is**

- A exhaust stroke
- B intake stroke
- C compression stroke
- D combustion stroke

**15. During which stroke power is generated in engine....**

- A exhaust stroke

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- B intake stroke
- C compression stroke
- D combustion stroke

**16. Which fastening method uses the shape of the components to hold them together?**

- A) mechanical fastening
- B) bonding
- C) forming
- D) none of the above

**17. What is the tool used to form external threads?**

- A) crest
- B) die
- C) chamfer
- D) tap

**18. What defines the distance a screw will travel when rotated 360 degrees?**

- A) crest
- B) root
- C) pitch
- D) lead

**19. All of the following are part of the English thread specification, except:**

- A) thread form
- B) major diameter
- C) tap drill
- D) class of fit

**20. All of the following are part of a metric thread specification, except:**

- A) general purpose tolerance
- B) pitch
- C) nominal size
- D) thread series

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**21. Which type of threaded fastener was designed to prevent rotation between parts?**

- A) bolt
- B) set screw
- C) stud
- D) cap screw

**22. Which type of nut was not designed to prevent slippage?**

- A) hexagon
- B) jam
- C) castle
- D) slotted

**23. Which key type has a semicircular shape?**

- A) square
- B) Gib head
- C) Pratt & Whitney
- D) Woodruff

**24. This type of thread is a thread on the inside of a member:**

- a. Basic thread
- b. External thread
- c. Internal thread
- d. Major diameter thread

**25. This is the smallest diameter of a screw thread:**

- a. Internal thread diameter
- b. Minor diameter
- c. Major diameter
- d. External thread diameter

**26. This is the smallest diameter of a screw thread:**

- a. Internal thread diameter
- b. Minor diameter
- c. Major diameter
- d. External thread diameter

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**27. The torque available at the contact between driving wheels and road is known as**

- a) brake effort
- b) tractive effort
- c) clutch effort
- d) none of these

**28. In automobiles G.V.W. refers to**

- a) gross vehicle weight
- b) gross vehicle width
- c) gross vehicle wheel base
- d) gross vehicle wheel track

**29. The petrol engines are also known as**

- a) spark ignition (S.I.) engines
- b) compression ignition (C.I.) engines
- c) steam engines
- d) none of these

**30. The painting of automobiles is done to**

- a) improve its external appearance
- b) prevent rust from growing on the body
- c) all of these
- d) retain the characteristics of steel for long

### **Section- B**

**Fill in the Blanks**

**5\*1**

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cam shaft, 1 – 3 – 4 – 2, 1 – 2 – 3 – 4, SAE 90, SAE 40, crank shaft, Helical gears, Wheel bearing, Spiral gears  
**5X1**

1. SAE No. of the lubricating oil used in gear boxes is .....
2. .... is not lubricated with lubricating oil.
- 3..... is used in synchromesh gear boxes.
4. The distributor of a petrol engines is driven by .....
5. The firing order of a 4 cylinder petrol engine is .....

#### True/False

**5 ×1**

1. The clutch housing of a four wheeler is bolted to The engine fly wheel.
2. Wheel bearing is not lubricated with lubricating oil.
3. Clutch is not lubricated in a four wheeler.
4. The speedometer drive for a 4 wheeler is taken from Front axle.
5. Fuel pump of an MPFI engine is located In the fuel tank.

#### Match the Pair.

**5X1**

- |                    |                |
|--------------------|----------------|
| 1. Petrol Engine   | A) Grease      |
| 2. Wheel Bearing   | B) Rear Brakes |
| 3. King Pin        | C) Battery     |
| 4. Parking Brakes  | D) Spark Plug  |
| 5. Ignition System | E) Grease Gun  |

#### One word/Line Answers required.

**5\*1**

1. What do you mean by clutch drag?
2. Explain Break & its types?
3. What are the different stokes of a 4-stroke engine?
4. What is the use of Steering in any vehicle?
5. What is the Main function of clutch?