

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?