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Time : 2 Hours

**AUTO SERVICING AND
GARAGE MANAGEMENT**

Subject Code

V	4	3	7	1
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Total No. of Questions : 23 (Printed Pages : 4)

Maximum Marks : 50

- INSTRUCTIONS :**
- (i) There are four sections in the question paper (A, B, C & D) consisting of **23** questions.
 - (ii) In Section A there are eight questions of which Question Nos. **1** to **4** are Multiple Choice Questions, Question Nos. **5** & **6** are to be answered in *one* word, phrase and Question Nos. **7** & **8** are to be answered in *one* sentence each.
 - (iii) Attempt *all* the questions however internal choice is given for Question Nos. **20** & **23**.
 - (iv) Figures to the right indicate marks allotted to each question.
 - (v) Write the number of each question clearly on the answer-book.

SECTION A

1. The gauge used to measure suction pressure in I.C. Engine. 1
- Compression gauge
 - Vacuum gauge
 - Feeler gauge
 - Level gauge

2. What is the purpose of fuel pressure test in a fuel system diagnosis ? 1
- To measure the temperature of the fuel
 - To determine the type of fuel used
 - To check if the fuel pump is working properly
 - To test the colour of fuel
3. Name the instrument used to measure the strength of coolant in cooling system : 1
- Hydrometer
 - High rate discharge tester
 - Compression tester
 - Screw gauge
4. Greasing on a wheel bearing hub is done : 1
- To increase the heat and wear
 - To make parts to wear faster
 - To make difficult in turning the wheel
 - To reduce the heat and wear
5. Name the measuring instrument used to measure the end play of crank shaft. 1
6. Give a reason for trouble "Shaky propeller shaft". 1
7. Why is it necessary to clean air filter ? 1
8. How cambering of leaf spring is carried out ? 1

SECTION B

9. State any *four* causes and remedies for trouble “clutch slip while engaged”. 2
10. Mention any *four* maintenance of gearbox. 2
11. Mention any *four* employer based factors which affect job satisfaction. 2
12. Write any *four* common factors storekeeper should follow, while placing orders and buying a spare parts. 2
13. Write any *four* basic inventory controls in auto workshop. 2
14. Explain how to set valve clearance. 2

SECTION C

15. Explain the following test to be conducted in cooling system : 3
 - (1) Testing of Thermostat valve
 - (2) After flushing Pressure test on radiator.
16. Write the points to rectify the trouble “Excessive oil consumption”. 3
17. Explain briefly bleeding of hydraulic brake. 3
18. Write any *six* causes for tyre wear. 3
19. Explain briefly checking of tooth contact in between differential and bevel pinion. 3
20. Write procedure to do following test on AC Mechanical fuel pump used in petrol fuel system (any *two*) : 3
 - (1) Pressure test
 - (2) Vacuum test
 - (3) Volume test.

Or

Write procedure to do the following test on injector used in diesel fuel system
(any *two*) :

- (1) Leak of test
- (2) Pressure test
- (3) Spray test.

SECTION D

21. Explain the following : 4
- (1) Document required for registration of vehicle
 - (2) Purpose of vehicle insurance
 - (3) Necessity of driving licence
 - (4) Necessity of fitness certificate for car.
22. State any *four* causes and suggest remedies for the following troubles in steering system : 4
- (1) Wander/Wandering of vehicle
 - (2) Hard steering.
23. Mention any *four* causes and suggest remedies for the following engine troubles : 4
- (1) Engine does not pick up load/speed
 - (2) Engine runs noisy.

Or

Write in detail the procedure to conduct compression test using compression tester in petrol engine.