

**AUTO SHOP REPAIR AND PRACTICE (628)**  
**Sample Question Paper**  
**Class XII - 2018-19**

Time: 2 Hours

M.M.: 50

**General Instructions:**

1. Question paper is divided into two sections: Section-A and Section- B.
2. **Section-A:**
  - i. Multiple choice question/Fill in the blanks/Direct Questions of 1 mark each. Answer any 10 questions out of the given 12 questions.
  - ii. Very Short Answer of 2 marks each. Answer any 5 questions from the given 7 questions.
  - iii. Short Answer of 3 marks each. Answer any 5 questions from the given 7 questions.
3. **Section-B:** Long/Essay type questions of 5 marks each. Answer any 3 questions from the given 5 questions.
4. All questions of a particular section must be attempted in the correct order.
5. Please check that this question paper contains 31 questions out of which 23 questions are to be attempted.
6. The maximum time allowed is 2 hrs.

**SECTION –A**

**Mark the correct answer (1mark each).**

**Answer any 10 questions out of the given 12 questions:**

1. While studying the 'service manual' which point should be read carefully? **(1)**
  - a. Specific Warning
  - b. Specific tools and gauges
  - c. All instructions
  - d. All of above.
2. At the time of purchasing the vehicle the 'service manual' is given to each purchaser with the vehicle **(1)**
  - a. on free of cost
  - b. by taking the printed price
  - c. by taking half price
  - d. by taking one fourth price
3. Nuts and bolts are **(1)**
  - a. Temporary fasteners
  - b. Permanent fasteners
  - c. More effective fasteners
  - d. All above.

- 4 Which of the following is not an Automobile fastener? (1)  
a. U-Bolt  
b. Jam Nut  
c. Track Rod  
d. Tie Rod
- 5 A propeller shaft is tubular instead of solid because (1)  
a. it is more strong  
b. a solid shaft is weaker  
c. it has smaller sag  
d. it resist to 'wind- up'
- 6 'Contact breaker points' are generally made of (1)  
a. Plastic  
b. Steel  
c. Copper  
d. Tungsten
- 7 "Clutch facings" are usually attached to the plate by (1)  
a. Steel Rivets  
b. Brass Rivets  
c. Aluminium screws  
d. Steel screws
- 8 If the reading of the specific gravity of electrolyte which is filled in the battery is shown by hydrometer as 1.280 then your: (1)  
a. Battery is full charged  
b. Battery is  $\frac{3}{4}$ <sup>th</sup> part charged  
c. Battery is full  $\frac{1}{2}$ <sup>th</sup> part charged  
d. None of the above
- 9 In motor vehicle the "transmission system" is provided: (1)  
a. In between clutch and propeller shaft  
b. In between flywheel and clutch.  
c. At the end of propeller shaft  
d. None of above.
- 10 Automotive starting motors are (1)  
a. Series wound  
b. Series –shunt wound  
c. Shunt-wound  
d. Both (a) and (b) above
- 11 What is full form of ECM (1)  
a. Engine control Module  
b. Engine control mechanism  
c. Engine control management  
d. None of these
- 12 Which of the following is a satellite navigation system designed for use in automobiles. (1)  
a. Driver information system  
b. automotive navigation system  
c. automobile navigation system

d. None of these.

**Very Short Questions: (2 marks each).**

**Answer any 5 questions out of the given 7 questions:**

13. To remove the threaded fastener, give any two names of good tools. (2)
14. What is the least count of the vernier caliper? (2)
15. What are the functions of shock absorber in the suspension system? (2)
16. How an accidental car is inspected. Explain in brief? (2)
17. What is the function of 'Hooke's Joint'? (2)
18. Make a neat sketch of battery and write the names of various parts. (2)
19. Write the names of chemicals which are used in battery. (2)

**Short Questions: (3 marks each).**

**Answer any 5 questions out of the given 7 questions:**

20. Write note on HVAC systems used in vehicle. (3)
21. Write the note on stroboscope (3)
22. Make a neat sketch of 'Bevel Gauge' and write the names of its parts? (3)
23. How is 'shock absorber' replaced Describe in brief? (3)
24. How is slip joint of the propeller shaft serviced. (3)
25. What are the advantages of two piece propeller shaft? (3)
26. Draw a circuit diagram of a coil-ignition (Battery ignition) system. (3)

**SECTION -B**

**Long/Essay type questions (5 marks each).**

**Answer any 3 questions out of the given 5 questions:**

|  |         |
|--|---------|
| 27. Explain the working of 'dial gauge' with the help of neat sketch                 | (5)     |
| 28. What is the function of 'Inside micrometer' and what is its least count          | (5)     |
| 29. What are the types of 'suspension spring'. Describe any one with a neat sketch   | 30. (5) |
| 31. Make a sketch of telescopic type shock absorber and write the names of its parts | 32. (5) |
| 33.31. Explain the procedure of inspection and replacement of 'Piston Rings'         | 34. (5) |