

32173 - Automobile Maintenance

1. INTRODUCTION TO AUTOMOBILE WORKSHOP AND MAINTENANCE MANAGEMENT

Part – A

1. List some shop hazards?
2. Name some shop hazards?
3. Write a note on files?
4. What is rule?
5. What is check list?
6. What is log sheet?
7. Define vehicle maintenance?
8. What is periodic maintenance?
9. What is floor jack?
10. List the important of maintenance

Part – B

1. What is scheduled maintenance?
2. What is trip sheet?
3. List some shop safety rules?
4. List six steps in automotive service?
5. List the forms of maintenance?
6. What is unscheduled maintenance?
7. What is floor jack?
8. What is a safety stand?
9. What is a rule?

Part – C

1. Explain shop safety rules
2. Explain shop hazards
3. What is scheduled maintenance? Explain in detail
4. Explain weekly and monthly maintenance
5. Differentiate preventive and breakdown maintenance
6. Explain breakdown maintenance

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2. ENGINE MAINTENANCE, REPAIR AND OVERHAULING

Part – A

1. What is engine cleaning method?
2. What is decarburizing?
3. What is engine tuning?
4. What is babbitng?
5. What are the causes of valve failure?
6. What is dimensional inspection?

Part – B

1. Define thermal cleaning?
2. Causes of too much valve clearance
3. Causes of little valve clearance
4. What is visual inspection?
5. What is solvent cleaning?
6. What is valve lapping?
7. List the trouble shooting of valve

Part – C

1. Explain the complete engine tune up procedure?
2. Explain the different cleaning methods
3. Explain cylinder boring
4. Explain the methods of decarbonizing
5. Explain cylinder honing
6. Explain servicing of crankshaft
7. Explain valve servicing methods
8. Explain engine assembly with sketches

3. CHASSIS MAINTENANCE REPAIR AND OVERHAULING

Part – A

1. What is wheel alignment?
2. What is wheel balancing?
3. Why a clutch is necessary?
4. What is the use of pressure plate
5. Write any two trouble shooting on clutch slip?
6. What is clutch pedal free play?
7. How are radial tires rotated?
8. List the troubleshooting of propeller shaft?
9. List the steering troubles?

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Part – B

1. What are the purposes of hard steering?
2. Benefits of tire rotation in automobile
3. What are the causes of abnormal tire wear?
4. Mention the types of brake system?
5. What is computerized wheel alignment?
6. What is the interval of rotating tire?

Part – C

1. Explain the step by step procedure of servicing hydraulic brake
2. Explain major adjustment procedure of brake
3. Explain the procedure of wheel balancing
4. Explain about the wheel alignment
5. Explain the maintenance of gear box
6. Explain the complete procedure of overhauling of clutch assembly

4. MAINTENANCE OF FUEL SYSTEM COOLING SYSTEM LUBRICATION SYSTEM

Part – A

1. What is an antifreeze solution?
2. What is thermostat?
3. Why lubricating oil changed?
4. When to change engine oil and oil filter?
5. Name any two corrosion inhibitor?
6. What test are carried out on an injector?
7. What is anti corrosion?

Part – B

1. What test are carried out on an injector?
2. What is the service done on water pump
3. Write about ethylene glycol
4. Write about methanol
5. What are the primary agents of anticorrosion and anti freeze

Part – C

1. Explain the various test for checking performance of fuel pump
2. What is the service fuel pump
3. Explain how to perform drain flushing and refill procedure on a cooling system
4. Procedure to service the calibration and phasing of diesel fuel injection pump
5. Service of lubricating system of an automobile

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5. ENGINE EMISSIONS AND ITS CONTROL

Part – A

1. What is EGR?
2. What is catalytic converter
3. What are evaporative emissions
4. What is air injection
5. Give the emission control methods
6. Give the impact on lead catalytic converter
7. What are evaporative emissions
8. What is EVAP
9. What is the function of PCV valve

Part – B

1. What are the uses of exhaust gas analyzer?
2. What is the use of charcoal canister
3. What is crankcase ventilation
4. What is automotive emission
5. What are the effects of automotive emission
6. Define blow-by-gas
7. What is wall quenching
8. Define ignition delay
9. What do you mean by evaporative fuel

Part – C

1. Explain the positive crank case ventilation with a neat sketch?
2. Explain the types of silencers
3. Explain the types of smoke meters
4. Explain the emission formation due to incomplete combustion
5. Give effects of pollutants on environment and human beings
6. What is EGR? Explain how exhaust gases are treated