

STUDENT'S NAME		TOTAL MARKS OBTAINED
CLASS	SUBJECT	
ROLL NO.	DATE	

NSQF Mid-Term Examination

II PU : 2025-26.

SUB: AUTOMOTIVE

I Scheme of Valuation

1. Ctrl + v
2. Recundicing
3. 3
4. Monotonic
5. Different
6. Diaphragm Clutch.
7. 15,000 RPM.
8. Technician.
9. Cylinder Head.
10. Angle.

II

11. Stay positive And Analyse
 - Keep your thoughts in present.
 - Talk to friends And family for Comfort.
 - practise Meditation And yoga.
 - Hearing Sound Songs.
 - Go to Movies.

12. Eye Contact

- Gestures
- Avoiding distractions
- Giving feedback.

13 why Service Manual Used.

The Service Manual helps teach the Assistants to work on the vehicle Systematically to solve the problems.

Carber

As well as to provide service to maintain originality.

14. Define propeller shaft.

propeller shaft is used to transmit engine power to the rear drive axle. The propeller shaft is mounted between the gearbox and differential and thus the engine power is transmitted to the driving wheels.

15.

- Excessive fuel consumption
- No pickup
- Engine do not take load
- Hard starting
- Valve sticks
- Engine overheats.

16. Types of Solid injection Systems

- Common Rail Fuel Injection System.
- Individual pump Fuel Injection System.
- Fuel Injector nozzle.

17. What is Drive Shaft

A drive shaft is solid circular shaped shaft usually made of steel this transmits power from engine to gear and then to the wheels of a vehicle.

18. Why is Cooling System necessary

Cooling is necessary because high temperature damages engine components

And changes the viscosity of lubricants.

19. what is popet valve

A popet valve is a valve typically used to control the timing and quality quantity of gas or vapour flow into engine.

20 Components of Transmission Systems.

- Inspection of clutch plate for oil leakage
- Inspection of Flywheel frictional surface
- pressure plate
- Diaphragm Spring
- precautions.

Ans

21 Define Transmission System

- An automatic transmission is a type of motor vehicle transmission that can automatically change gear ratios as the vehicle moves.

22 note on Diaphragm clutch.

In this type of clutch, diaphragm spring is used in place of coil spring. Diaphragm clutch is small in size as compare to spring clutch. And it transmits more torque as diaphragm exerts more pressure as compare to spring.

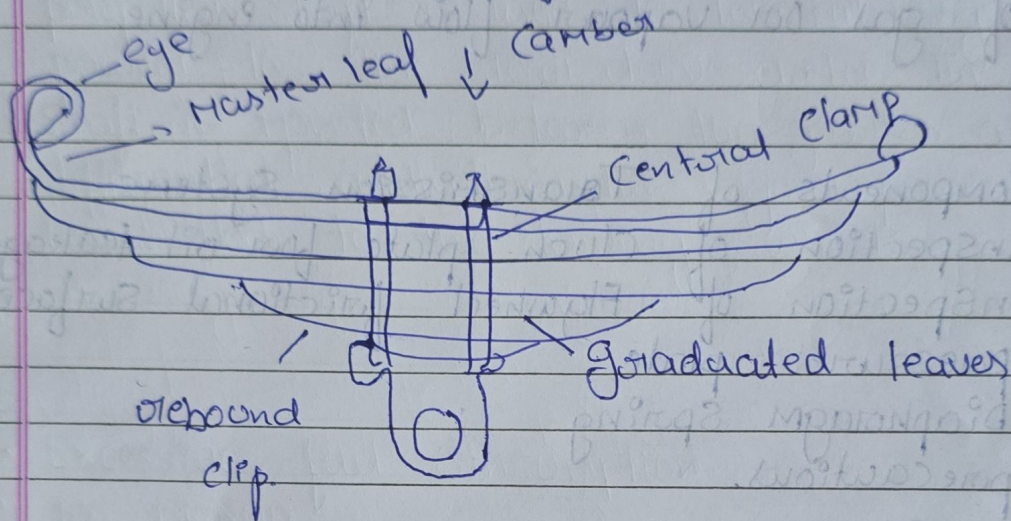
23. Maintenance Tips for Suspension System.

- Thoroughly clean the leaf spring and its fittings.
- With the help of grease or pneumatic grease gun. lubricate all shackles pins swing arms
- Lubrication each leaf with graphite grease
- Tighten the U clamp bolts/nuts.

Caliber

- Check the Centore bolt
- Tighten the U clamp nut bolt with Specified torque. Ect.

24 Draw left Spring.



25 Functions of piston ring.

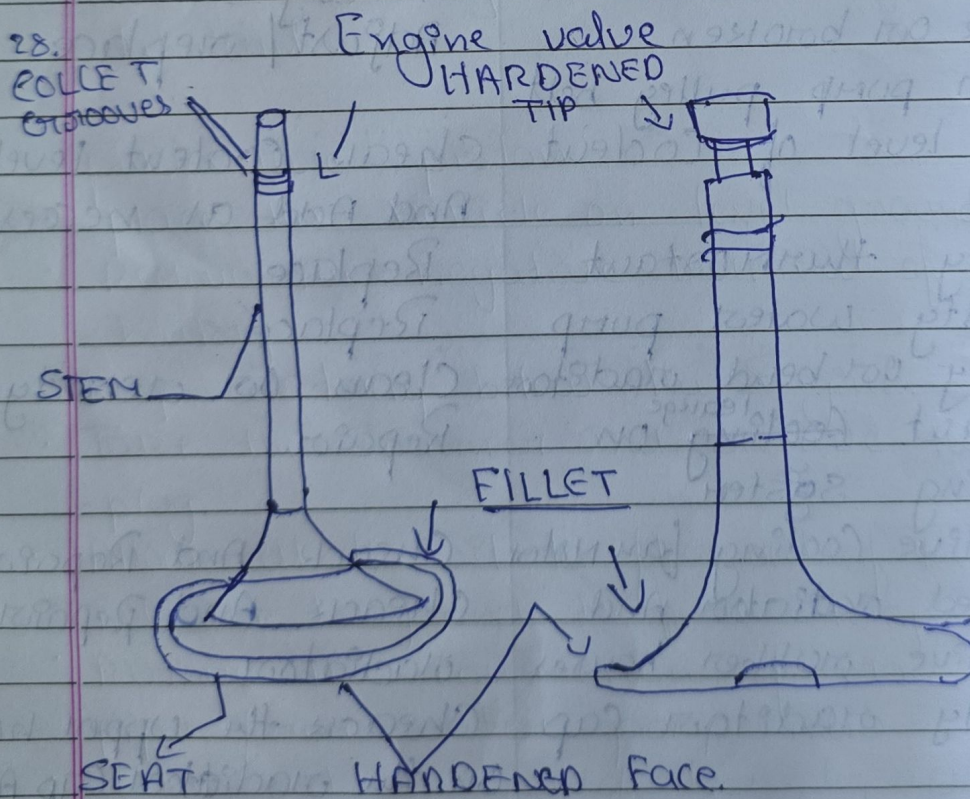
- To seal the combustion so that there is no transfer of combustion gases.
- Most automobile engine piston has three rings.
- The Top 2 rings are Compression rings and lower is oil ring.

26 Importance of Differential

- A vehicle wheel rotates at different speeds especially when turning.
- The inside wheels travel a shorter distance than the outside wheels.
- To act as the final gear reduction in the vehicle.
- The differential allows the wheel to rotate fast

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27. removing clutch Assembly
- place the vehicle on the level ground
 - Raise the vehicle at a specific height
 - Remove the clutch linkage connection from the bell housing.
 - Remove propeller shaft from companion flange of the gear box
 - Loose and remove nut of clutch housing and gearbox housing.
 - Mark the position of cover on the flywheel
 - Remove all the bolts of pressure assembly from the fly wheel
 - Remove the clutch plate pressure plate release bearing.



29. procedure for recondition of valve.
- Dismantle the cylinder head from the Engine
 - Remove the Carbon from head *Caliber*

- Clean the piston head.
- Add little quantity of precision blue in petrol.
- Remove the valve using a valve spring compressor.
- Blue colour shows leakage area.

30. Components of Automatic Transmission

- Converter
- Housing case
- Oil pan
- Extension housing

IV

Reasons	Remedys.
• Loose or broken water pump pulley belt	Adjust / replace
• Low level of coolant	Check coolant level and add as necessary
• Faulty thermostat	Replace
• Faulty water pump	Replace
• Dirty or bent radiator	Clean or remedy
• Coolant leaking on cooling system	Repair.
• Defective cooling fan motor	Check and repair
• Plugged radiator and defective rubber hoses	Check and repair radiator.
• Faulty radiator cap	Check the upper hole on the radiator cap and also check rubber sealing and replace if found defective.
• Faulty thermostat	Replace switch
• Improper ignition timing	Adjust.

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Advantages of Service Manual

1. Expanded view of a unit
2. Name of parts with part number
3. The specification of each part and their tolerances in assembly
4. Sequencing of disassembly And precaution
5. Sequencing of assembly with tolerance. play adjustment etc.
6. Testing procedure And workability.
7. Maintenance ~~Sh~~ Schedule
8. Replacement limit of components.
9. Trouble Shooting Chart
10. use of special tools And their part number.
11. Correct quantity and accurate grade of lubricants.

procedure piston

- place the vehicle on level ground
- Remove the negative terminal of the battery
- Keep a tray below the Engine.
- Take the Spanner and remove the drain plug.
- Allow all the oil to flow out of the Engine into the tray and keep the tray aside.
- Remove the connection of radiator hoses pipe from water pump also
- Take out the radiator by unscrewing the nuts
- Take out the fan. And then remove the belt.
- Then from underneath remove the nut
- Then remove the tapped cover. *Caliber*

Common faults in Cooling System

- Loose or broken water pump pulley belt
- Low level of Coolant
- Faulty thermostat
- Faulty water pump
- Dirty or band radiator fins
- Broken water pump fan
- Coolant leakage on cooling system
- Defective cooling fan motor
- plugged radiator
- Faulty radiator
- Improper ignition timing

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