

1. What is an Automobile?

An automobile is a self propelled vehicles which is used for transportation of passengers and goods on the ground

2. What is self propelled Vehicle?

A self propelled vehicles is one is witch the power required for the propulsion is produce in the vehicle itself.

3. Name the Largest part of the Engine.

Cylinder Block

4. What is a Mono Block cylinder?

It is a Cylinder Block in which the crankcase is cast integrally.

5. State any on difference between Diesel Engine and Petrol Engine.

In diesel Engine the fuel is fed in the cylinder by a fuel Injector and is mixed with air inside the cylinder. In petrol engine, the air and petrol are mixed in the carburetor before they enter into the cylinder

6. Where single cylinder Engine is Used

Mopeds, scooters and Motor cycles.

7. What is meant by Piston Seizure?

It refers to binding of the piston and cylinder valve, as a result of a lubrication having being distorted by excessive temperature and friction

8. What is the function of compression ring in the piston?

They act as a seal between the piston and the cylinder and prevent the leakage of high pressure gas from blowing into the crank case.

9. How does the Flywheel works?

The fly wheels stores excess energy in power stroke and helps back in compression stroke, to maintain uniform speed.

10. What is purpose of super charging?

To increase the power which may be required at intervals and give more power where space does not permit large energies.

11. How is an Engine Super charged?

An engine is supercharged by an air compressor or blower which supplies the excess air

12. What is a Choke?

It is Valve controlling the amount of air passing to the carburetor and is used when starting a cold engine.

13. What is an Economiser?

It is an air bleed fitted with a needle valve so that the amount of air entering the nozzle can be varied to suit running conditions.

14. What are usual method of fuel injection?

a) Air Injection b) Mechanical Injection c) Solid fuel Injection

15. What is the function of the fuel injection pump?

The function of the fuel injection pump is to supply the engine with fuel in quantities exactly metered in proportion to the amount of the power required and time for smooth running with maximum economy.

16. What is Unit Injector?

A Unit Injector is a small high pressure pump and spray nozzle for an individual cylinder.

17. What is an Injector?

It is a nozzle which ensures and actually supplies an atomized fuel into the engine cylinder

18. Name two cause of misfiring.

One or more nozzles not spraying correctly b) Fuel not reaching the nozzle owing the choke filter, or an air lock in the delivery pipe.

19. What are the various methods of Oil lubrication to the engine parts?

a) Splash lubrication b) pressure lubrication c) Pressure and splash Lubrication

20. What does S.A.E indicate?

It indicates the number by which lubricating Oils are graded. It means "Society of Automotive Engineers"

21. How Pistons are usually lubricated?

Piston lubrication is by Oil which is thrown from the ends of the big end bearings.

22. Why should lubricating oil being changed?

Lubricating oil should be change, otherwise in get contaminated due to carbon, fuel, water and dirt.

23. What is the advantage of Water cooling system?

a) Less Engine sound b) Quick transfer of Heat c) Easier Method to control temperature

24. What is the purpose of the fan in the Radiator?

To assist the flow of air through the radiator, particularly when the vehicle is moving slowly.

25. How the thermostat does works?

When the engine is too cooled, the thermostat closed the main valve, thus stopping the flow to the radiator. When the engine is to hot, I opens the main vale for normal circulation through radiator.

26. What is a Radiator?

A very effective form of cooling surface in which heat is absorbed and transmitted by circulation of Water.

27. What is the function of Radiator?

To cool Down the circulated water in the water jacket.

28. What is Pressure cap in radiator?

It is a seal in the radiator that maintains a selected pressure in the cooling system, when the engine is hot.

29. What are the indications of an overheated engine?

Pinking, or Knocking, Boiling, Loss of power and eventual seizure

30. What is a Frame?

Frame or underbody is the main part of chassis, on which the remaining parts of the chassis are mounted.

31. What do you mean by Independent suspension system?

It refers to the mounting of the wheel on a separate axle, so that road shocks affect only the particular wheel.

32. What is Sprung Weight?

It is the weight of passenger carriage.

33. What is half shaft?

It is the type of drive axle that extends from the differential to the hub of an independently suspended system.

34. What is a U- Bolt?

It is U shaped bolt which secures the leaf spring to the axle of the vehicle.

35. What is Tyre?

Tyre refers to the assembly of casing and tread mounted on a car wheel to provide an air cushion and contact with the road.

36. What are plies in the Tyre?

Layers of chord shaped in the form of a tyre are called Plies and fixed with a wire.

37. What is Transmission system?

The mechanism that transmits the power developed by the engine of the automobile to the driving wheel is called transmission system.

38. What is a Clutch?

A Clutch is Mechanism which enables the rotary motion of the one shaft to be transmitted at will to the second shaft, whose axes is coincident with that of first.

39. What is wet clutch?

A wet clutch is one which runs in oil in which the plates are lined with cork.

40. What is a Function of a Gear box?

It allows the engine to run at different speeds relative to the road vehicles so as to maintain its power and regulate the torque

41. What is a Constant mesh gear Box?

It is a transmission in which the gears of Lay shaft are in constant mesh with the relative gears.

42. What is an Overdrive?

It is a Device Interpose between the transmission and propeller shaft to permit the propeller shaft to run faster than, or Overdrive, the transmission Main shaft.

43. What is a Differential?

It is a Mechanism housed in the drive axle, which drive the outer wheel faster than the inner one wheel while taking a turn.

44. What will happen, if differential is not used?

If differential is not used the vehicle can not be controlled during a turn. The wheels will skid and tyres may wear-off quickly

45. What is a Dead Axle?

It is a solid Axle mounted on the springs when a spindle at each end upon which the wheel turns.

46. What is a Live Axle?

Live axles are one which turns with ion a tubular Housing.

47. What is Camber?

Camber is the tilting angle of the top of the front wheel from the vertical axis.

48. What is Tie- Rod?

A Rod which joints the two front sub axles through an arm attached to it is called tie rod.

49. What is King Pin Inclined?

King Pin is set inclined to decrease friction between tyre and road while turning

50. What is the function of a Braking System?

To reduce the speed, stop the moving vehicle with in a minimum possible time and minimum possible distance and to hold the vehicle.

51. What is the basic principle of air braking system?

The compressed is used actuate the brake shoe, thus making the operation easy.

52. What are power Brakes?

Brakes powered other than physical effort applied at the brake paddle is known as power brakes. The power may be exerted by air pressure, engine Vacuum or electrical Energy.

53. What do you mean by Servo Brake?

Servo brake is one which the paddle effort is assisted by mechanical or Vacuum Effect

54. What is a Cell?

When Two electrodes are collected through an external circuit and separated by an chemical electrolyte, is called cell.

55. What is a Battery?

It is an assembly of an cells in series with the positive terminal of one connected to the negative terminal of other and so on.

56. How Many cells are there in a 12Volt battery?

6 cells

57. What is capacity of a Battery?

It is the product of the rate of discharge in ampere and time in hours required to discharge it completely. It is measured in Ampere- Hours

58. What is an Electrolyte?

It is a Mixture of sulfuric acid and distilled water, used to complete the circuit inside the cell of battery.

59. What is the source of electrical energy in Automobile?

Dynomometer/ Alertator.

60. What is pre-ignition?

It refers to the ignition of the combustible mixture before occurrence of the spark.