

Student Name: _____ Roll No: _____

1. Which device is vaporizing of fuel and mixing it with air in petrol engine?

- A) AC fuel pump B) Carburetor
C) Tank D) Fuel filter

2. When the valve clearance to be adjusted?

- A) Partially closed B) Fully closed
C) Fully opened D) Just opened

3. Which of the following fuel quality determines to evaporate?

- A) Cetane number B) Viscosity
C) Volatility D) Octane number

4. A cycle consisting of one constant pressure, one constant volume and two isentropic processes is known as

- A) Constant volume B) Diesel Cycle
C) Constant pressure D) Isothermal

5. Which is the engine having cylinders in 180 Degree?

- A) Radial engine B) V- engine
C) Inline engine D) Opposed engine

6. Which engine has more length?

- A) Inline engine B) Opposed engine
C) Radial engine D) 'V' engine

7. Which association of india is playing crucial role in less pollution?

- A) AIA (Automotive industry Association) B) AASI (Automobile Association of South India)
C) ARAI (Automotive research association of India) D) AAI (Automobile Association of India)

8. Which is used to determine the stroke of an engine?

- A) Dia of piston B) Length of connecting rod
C) Throw D) Cycle

9. Which is the compression pressure of C.I engine?

- A) 90 to 160 psi B) 290 to 390 psi

C) 180 to 280 psi

D) 400 to 550 psi

10. How the ports are opened and closed in two stroke engine?

- A) Movement of Rocker arm B) Movement of piston
C) Movement piston pin D) Movement of valve

11. How the amount of work done in a specification is called?

- A) Cycle B) Torque
C) Stroke length D) Power

12. How many national automotive testing and R&D infrastructure projects (NATRIP) are established in India?

- A) 6 B) 7
C) 4 D) 5

13. How many crank shaft rotation required to open exhaust valve one time in four stoke engine?

- A) Three B) Four
C) Two D) One

14. Which of the following fuel quality determines burning property of diesel?

- A) Volatility B) Cetane number
C) Viscosity D) Octane number

15. Which of the following fuel quality determines burning property of petrol?

- A) Octane number B) Cetane number
C) Viscosity D) Volatility

16. How the set of operations perfermed in sequence of motion of the piston in an engine produce power is called?

- A) Efficiency B) Cycle
C) Stroke D) Stroke

17. Which of the following fuel quality determines fuel to flow?

- A) Volatility B) Octane number
C) Cetane number D) Viscosity

18. Which engine has carburetor?

- A) Mineral oil
- B) Diesel
- C) Petrol
- D) Kerosene

19. How many times, ports are open in two rotation of crank shaft in two stroke engine?

- A) One time
- B) Two times
- C) Four times
- D) Three times

20. What is the process of driving exhaust gases in two stroke engine out of cylinder?

- A) Scavenging
- B) Super charging
- C) Intaking
- D) Combustion

21. What is the angle of throw for 4 cylinder engine?

- A) 180 Degree
- B) 120 Degree
- C) 90 Degree
- D) 60 Degree

22. What is the volume of the space above the piston at TDC?

- A) Swept volume
- B) Clearance volume
- C) Displace volume
- D) Total volume

23. What is the specification of 6J x 15?

- A) Engine size
- B) Wheel rim size
- C) Vehicle size
- D) Tyre size

24. What is the purpose of throttle valve in the carburetor?

- A) Excess supply of fuel at idle
- B) Controls air fuel mixture into the engine
- C) Always holds correct fuel
- D) Filter the fuel

25. Which is the engine called as constant volume cycle?

- A) S.I engine
- B) Turbine engine
- C) C.I engine
- D) Steam engine

26. How many crank shaft rotations required to get one power in four stroke single cylinder diesel engine?

- A) Two
- B) One
- C) Four
- D) Three

27. When did first car rolled in the street of Calcutta?

- A) 1950
- B) 1910
- C) 1887
- D) 1810

28. Which is the power developed in an engine?

- A) BHP
- B) IHP
- C) IHP
- D) RHP

29. Which digit indicate the engine type in 17 digit of vin

number?

- A) 5 digit
- B) 8 digit
- C) 3 digit
- D) 2 digit

30. What is the working cycle of compression ignition engine?

- A) Diesel cycle
- B) Otto cycle
- C) Rankin cycle
- D) Sterling cycle

31. What is the purpose of needle valve in carburetor?

- A) Excess supply of fuel at idle
- B) Always holds correct level of fuel
- C) Decrease the fuel pressure
- D) Controls the air flow of the engine

32. What is the formula for Frictional horse power (FHP)?

- A) IHP / BHP
- B) BHP / IHP
- C) IHP + BHP
- D) IHP - BHP

33. Which causes the air enter into cylinder?

- A) Carburettor air-horn pressure
- B) AC fuel pump pressure
- C) Air filtering
- D) Engine vacuum

34. How many flywheel rotation requiries to compelet one cycle in two stroke engine?

- A) One
- B) Four
- C) Three
- D) Two

35. Which service equipment is used to lift a car?

- A) Arbor press
- B) Hydraulic press
- C) Hydraulic valve
- D) Hydraulic hoist

36. Which is the starting system used in heavy vehicles?

- A) Gasoline engine cranking
- B) Electric motor cranking
- C) Hand cranking
- D) Compressed air cranking

37. Which engine has fuel injection pump?

- A) Diesel engine
- B) MPFI engine
- C) CRDI engine
- D) Petrol engine

38. What is the mechanical efficiency of an engine?

- A) $(BHP/FHP) \times 100$
- B) $(BHP/IHP) \times 100$
- C) $(FHP/BHP) \times 100$
- D) $(IHP/BHP) \times 100$

39. Which equipment used for quick inspection under chassis of a car?

- A) Trolley jack
- B) Two post hoist
- C) Stand
- D) Screw jack

40. What is the purpose of accelerating pump circuit?
- A) Provides an economic mixture
B) Provides mixture for low speed
C) Provides mixture for idle speed
D) Provides extra fuel during pick up speed

41. What is the compression ratio of an engine, its clearance volume is 10 c.c and swept volume is 90 c.c?
- A) 09:01
B) 08:01
C) 10:01
D) 11:01

42. Which ministry of India regulate the motor vehicle activity?
- A) Minister of defence
B) Minister of road transport and highways
C) Minister of finance
D) Minister of rural and development

43. How the AC mechanical pump's fuel delivery pressure is determined?
- A) Spring pressure on diaphragm
B) Size of the pumping chamber
C) Maximum stroke of diaphragm
D) Maximum deflection of diaphragm

44. What is brake horse power?
- A) Power available at the gear box
B) Power available at the wheels
C) Power available at the cylinder
D) Power available at fly wheel

45. What is indicated horse power?
- A) Power developed in the cylinder
B) Power developed in the wheel
C) Power developed in the flywheel
D) Power developed in the propeller shaft

46. A cycle consisting of one constant pressure, one constant volume and two isentropic processes is known as
- A) Constant volume
B) Diesel Cycle
C) Constant pressure
D) Isothermal

47. Which year Hindustan motor established ambassador car industry in India?
- A) 1980
B) 1940

- C) 1900
D) 1900

48. Why suction tube in the tank is raised above?
- A) To enter condensed water
B) To enter air
C) To act atmospheric pressure
D) To avoid suction of water in fuel

49. How can identify a two stroke engine?
- A) Passages
B) Valves
C) Ports
D) Cavities

50. Which type of brake used in heavy vehicle parking?
- A) Electrical brake
B) Hydraulic
C) Pneumatic brake
D) Mechanical

51. What is the purpose of valve in AC fuel pump?
- A) Supply correct quantity of fuel
B) Creating pressure
C) Creating suction
D) Allow the fuel to suck and deliver

52. What is heat?
- A) Velocity
B) Torque
C) Force
D) Energy

53. Where the emulsion tube is provided in solex carburetor?
- A) Idle jet
B) Cold starter
C) Main jet
D) Choke

54. Where is the air fuel mixture compressed in the two stroke petrol engine?
- A) Exhaust port
B) Transfer port
C) Intake port
D) Combustion chamber

55. How can identify a four stroke engine?
- A) Ports
B) Passages
C) Cavities
D) Valves

56. What is the stroke length of the engine if its throw of the crankshaft is 40 mm?
- A) 40 mm
B) 60 mm
C) 80 mm
D) 20 mm