

Duration: 30 Mins

Total Marks: 50

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Student Name: _____ Roll No: _____

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

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

volume is 10 c.c and swept volume is 90 c.c?

- A) 08:01 B) 09:01
C) 10:01 D) 11:01

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

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

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

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

3. 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

11. Which engine has more length?

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

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

- A) 180 to 280 psi B) 400 to 550 psi
C) 90 to 160 psi D) 290 to 390 psi

12. Which engine has carburetor?

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

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

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

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

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

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

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

14. Which digit indicate the engine type in 17 digit of win number?

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

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

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

15. What is the purpose of valve in AC fuel pump?

- A) Creating pressure B) Creating suction
C) Supply correct quantity of fuel D) Allow the fuel to suck and deliver

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

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

16. Where is the air fuel mixture compressed in the two stroke petrol engine?

- A) Combustion chamber B) Intake port
C) Exhaust port D) Transfer port

9. What is the compression ratio of an engine, its clearance

17. How can identify a four stroke engine?

- A) Cavities B) Valves
C) Passages D) Ports

18. How the AC mechanical pump's fuel delivery pressure is determined?

- A) Maximum stroke of diaphragm
- B) Size of the pumping chamber
- C) Maximum deflection of diaphragm
- D) Spring pressure on diaphragm

19. What is the mechanical efficiency of an engine?

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

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

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

21. Which ministry of India regulate the motor vehicle activity?

- A) Minister of rural and development
- B) Minister of defence
- C) Minister of finance
- D) Minister of road transport and highways

22. Why suction tube in the tank is raised above?

- A) To enter air
- B) To act atmospheric pressure
- C) To enter condensed water
- D) To avoid suction of water in fuel

23. What is the purpose of accelerating pump circuit?

- A) Provides mixture for low speed
- B) Provides mixture for idle speed
- C) Provides an economic mixture
- D) Provides extra fuel during pick up speed

24. What is the stroke length of the engine if its throw of the crankshaft is 40 mm?

- A) 80 mm
- B) 40 mm
- C) 20 mm
- D) 60 mm

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

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

26. When the valve clearance to be adjusted?

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

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

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

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

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

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

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

30. Which is the power developed in an engine?

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

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

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

32. Which causes the air enter into cylinder?

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

33. Which year Hindustan motor established ambassador car industry in India?

- A) 1900
- B) 1900
- C) 1940
- D) 1980

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

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

35. 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

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

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

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

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

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

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

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

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

40. Where the emulsion tube is provided in solex carburetor?

- A) Cold starter
- B) Idle jet
- C) Main jet
- D) Choke

41. How can identify a two stroke engine?

- A) Ports
- B) Cavities
- C) Valves
- D) Passages

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

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

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

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

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

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

45. Which type of brake used in heavy vehicle parking?

- A) Pneumatic brake
- B) Mechanical
- C) Hydraulic
- D) Electrical brake

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

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

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

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

48. Which engine has fuel injection pump?

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

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

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

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

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