

ITI Quiz - 03-Mar-2026

09:25 PM

Q. ID: ITISKILL5438RJ

March 2026

Answer Key

Duration: 40 Mins

Total Marks: 56

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

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

Answer: C) Main jet

2. Which causes the air enter into cylinder?

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

Answer: B) Engine vacuum

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

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

Answer: D) Diesel Cycle

4. Which engine has fuel injection pump?

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

Answer: B) Diesel engine

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

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

Answer: D) Cetane number

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

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

Answer: D) $IHP - BHP$

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

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

Answer: B) Two times

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

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

Answer: A) 400 to 550 psi

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

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

Answer: B) Two

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

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

Answer: C) Throw

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

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

Answer: C) Electric motor cranking

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

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

Answer: C) Opposed engine

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

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

Answer: B) Trolley jack

14. What is heat?

- A) Energy
- B) Velocity
- C) Force
- D) Torque

Answer: A) Energy

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

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

Answer: D) Viscosity

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

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

Answer: D) S.I engine

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

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

Answer: A) Hydraulic hoist

18. Which engine has carburetor?

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

Answer: C) Petrol

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

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

Answer: C) Mechanical

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

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

Answer: A) To avoid suction of water in fuel

21. 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

Answer: B) Minister of road transport and highways

22. How can identify a four stroke engine?

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

Answer: C) Valves

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

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

Answer: D) 7

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

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

Answer: A) Diesel Cycle

25. What is the purpose of accelerating pump circuit?

- A) Provides extra fuel during pick up speed
- B) Provides mixture for low speed

- C) Provides mixture for idle speed
- D) Provides an economic mixture

Answer: A) Provides extra fuel during pick up speed

26. How many flywheel rotation requires to complete one cycle in two stroke engine?

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

Answer: D) One

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

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

Answer: D) Cycle

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

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

Answer: D) Always holds correct level of fuel

29. What is brake horse power?

- A) Power available at the cylinder
- B) Power available at fly wheel
- C) Power available at the gear box
- D) Power available at the wheels

Answer: B) Power available at fly wheel

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

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

Answer: A) Carburetor

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

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

Answer: B) Volatility

32. Which engine has more length?

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

Answer: D) Opposed engine

33. What is the compression ratio of an engine, its clearance volume is 10 c.c and swept volume is 90 c.c?

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

Answer: C) 10:01

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

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

Answer: C) 180 Degree

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

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

Answer: B) Power

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

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

Answer: A) Allow the fuel to suck and deliver

37. Which is the power developed in an engine?

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

Answer: C) IHP

38. What is indicated horse power?

- A) Power developed in the wheel
- B) Power developed in the flywheel
- C) Power developed in the cylinder
- D) Power developed in the propeller shaft

Answer: C) Power developed in the cylinder

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

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

Answer: A) ARAI (Automotive research association of India)

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

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

Answer: B) 8 digit

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

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

Answer: D) Clearance volume

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

- A) Super charging
- B) Intaking

- C) Combustion
- D) Scavenging

Answer: D) Scavenging

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

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

Answer: B) Combustion chamber

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

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

Answer: A) Wheel rim size

45. When the valve clearance to be adjusted?

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

Answer: D) Just opened

46. How can identify a two stroke engine?

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

Answer: B) Ports

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

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

Answer: C) Maximum stroke of diaphragm

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

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

Answer: A) Controls air fuel mixture into the engine

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

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

Answer: D) Two

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

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

Answer: C) Diesel cycle

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

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

Answer: C) 80 mm

52. 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

Answer: A) Movement of piston

53. What is the mechanical efficiency of an engine?

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

Answer: C) $(\text{BHP}/\text{IHP}) \times 100$

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

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

Answer: A) 1887

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

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

Answer: D) Octane number

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

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

Answer: D) 1980
