

ITI Quiz - 27-May-2026

12:19 PM

Q. ID: ITISKILL9581KX

May 2026

Answer Key

Duration: 30 Mins

Total Marks: 56

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1. What is the purpose of accelerating pump circuit?

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

Answer: D) Provides extra fuel during pick up speed

2. 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

Answer: B) Carburetor

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

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

Answer: C) Trolley jack

4. What is the mechanical efficiency of an engine?

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

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

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

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

Answer: B) Electric motor cranking

6. Which engine has more length?

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

Answer: B) Opposed engine

7. 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

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

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

Answer: A) Clearance volume

9. How can identify a two stroke engine?

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

Answer: D) Ports

10. When the valve clearance to be adjusted?

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

Answer: D) Just opened

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

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

Answer: A) Hydraulic hoist

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

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

Answer: A) Cycle

13. 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

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

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

Answer: C) Controls air fuel mixture into the engine

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

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

Answer: B) Power

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

- A) To enter air
B) To avoid suction of water in fuel

C) To act atmospheric pressure
D) To enter condensed water

Answer: B) To avoid suction of water in fuel

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

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

Answer: C) Volatility

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

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

Answer: A) 7

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

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

Answer: A) Diesel cycle

20. What is indicated horse power?

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

Answer: B) Power developed in the cylinder

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

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

Answer: B) Always holds correct level of fuel

22. 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

23. 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

Answer: C) 80 mm

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

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

Answer: C) 180 Degree

25. Which engine has carburetor?

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

Answer: B) Petrol

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

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

Answer: B) Minister of road transport and highways

27. What is heat?

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

Answer: A) Energy

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

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

Answer: C) Main jet

29. Which engine has fuel injection pump?

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

Answer: D) Diesel engine

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

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

Answer: C) S.I engine

31. What is brake horse power?

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

Answer: C) Power available at fly wheel

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

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

Answer: D) Combustion chamber

33. How can identify a four stroke engine?

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

Answer: B) Valves

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

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

Answer: A) Maximum stroke of diaphragm

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

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

Answer: C) One

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

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

Answer: D) 1887

37. Which association of India is playing crucial role in less pollution?

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

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

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

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

Answer: B) Scavenging

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

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

Answer: D) 400 to 550 psi

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

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

Answer: B) Two

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

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

Answer: D) Mechanical

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

- A) Volatility
- B) Cetane number

- C) Octane number
- D) Viscosity

Answer: D) Viscosity

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

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

Answer: D) Two times

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

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

Answer: A) Diesel Cycle

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

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

Answer: A) IHP - BHP

46. Which digit indicate the engine type in 17 digit of VIN number?

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

Answer: C) 8 digit

47. Which causes the air enter into cylinder?

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

Answer: C) Engine vacuum

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

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

Answer: A) Two

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

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

Answer: B) Wheel rim size

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

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

Answer: D) 1980

51. Which is the power developed in an engine?

- A) RHP
- B) IHP

C) IHP

D) BHP

Answer: B) IHP

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

A) Diesel Cycle

B) Isothermal

C) Constant pressure

D) Constant volume

Answer: A) Diesel Cycle

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

A) V- engine

B) Radial engine

C) Inline engine

D) Opposed engine

Answer: D) Opposed engine

54. Which of the following fuel quality determines burning

property of petrol?

A) Volatility

B) Cetane number

C) Viscosity

D) Octane number

Answer: D) Octane number

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

A) Throw

B) Cycle

C) Dia of piston

D) Length of connecting rod

Answer: A) Throw

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

A) Volatility

B) Cetane number

C) Octane number

D) Viscosity

Answer: B) Cetane number
