

ITI Quiz - 27-May-2026

12:19 PM

Q. ID: ITISKILL9581KX

May 2026

Question Paper

Duration: 30 Mins

Total Marks: 56

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Student Name: _____ Roll No: _____

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

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

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

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

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

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

4. Which engine has fuel injection pump?

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

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

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

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

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

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

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

8. What is heat?

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

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

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

10. When the valve clearance to be adjusted?

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

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

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

12. 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) 11:01
C) 10:01 D) 08:01

13. What is the purpose of accelerating pump circuit?

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

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

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

15. 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

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

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

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

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

18. Which is the power developed in an engine?

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

19. Which engine has more length?

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

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

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

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

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

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

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

23. What is indicated horse power?

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

24. 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

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

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

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

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

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

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

28. What is the mechanical efficiency of an engine?

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

C) $(FHP/BHP) \times 100$

D) $(IHP/BHP) \times 100$

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

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

30. Which digit indicate the engine type in 17 digit of vin number?

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

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

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

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

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

33. What is brake horse power?

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

34. How can identify a four stroke engine?

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

35. Which engine has carburetor?

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

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

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

37. 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

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

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

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

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

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

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

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

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

42. 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

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

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

44. Which causes the air enter into cylinder?

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

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

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

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

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

47. How can identify a two stroke engine?

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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