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Trinity iti

Answer Key

Duration: 60 Mins

Total Marks: 56

Q.ID: ITISKILL67657R

1. When the valve clearance to be adjusted?

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

**Answer: A) Just opened**

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

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

**Answer: B) Two**

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

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

**Answer: B) Always holds correct level of fuel**

4. What is the purpose of accelerating pump circuit?

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

**Answer: C) Provides extra fuel during pick up speed**

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

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

**Answer: A) 10:01**

6. Which engine has fuel injection pump?

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

**Answer: C) Diesel engine**

7. How can identify a two stroke engine?

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

**Answer: C) Ports**

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

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

**Answer: C) Wheel rim size**

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

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

**Answer: A) Trolley jack**

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

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

**Answer: A) Viscosity**

11. 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**

12. What is heat?

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

**Answer: C) Energy**

13. How can identify a four stroke engine?

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

**Answer: B) Valves**

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

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

**Answer: D) Diesel Cycle**

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

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

**Answer: D) Scavenging**

16. Which causes the air enter into cylinder?

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

**Answer: D) Engine vacuum**

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

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

**Answer: A) 180 Degree**

**18.** What is indicated horse power?

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

**Answer: C) Power developed in the cylinder**

**19.** What is the purpose of throttle valve in the carburetor?

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

**Answer: B) Controls air fuel mixture into the engine**

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

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

**Answer: D) ARAI (Automotive research association of India)**

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

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

**Answer: A) IHP - BHP**

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

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

**Answer: B) Maximum stroke of diaphragm**

**23.** Which type of brake used in heavy vehicle parking?

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

**Answer: B) Mechanical**

**24.** Which of the following fuel quality determines to evaporate?

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

**Answer: B) Volatility**

**25.** Why suction tube in the tank is raised above?

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

**Answer: C) To avoid suction of water in fuel**

**26.** Which is the power developed in an engine?

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

**Answer: B) IHP**

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

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

**Answer: D) Combustion chamber**

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

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

**Answer: C) Carburetor**

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

- A) 7      B) 4  
C) 6      D) 5

**Answer: A) 7**

**30.** Which service equipment is used to lift a car?

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

**Answer: D) Hydraulic hoist**

**31.** Which is the engine called as constant volume cycle?

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

**Answer: A) S.I engine**

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

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

**Answer: D) One**

**33.** Which of the following fuel quality determines burning

property of diesel?

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

**Answer: B) Cetane number**

**34.** 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

**Answer: B) Cycle**

**35.** Where the emulsion tube is provided in solex carburetor?

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

**Answer: D) Main jet**

**36.** What is the working cycle of compression ignition engine?

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

**Answer: C) Diesel cycle**

**37.** What is brake horse power?

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

**Answer: B) Power available at fly wheel**

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

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

**Answer: C) Allow the fuel to suck and deliver**

**39.** 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**

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

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

**Answer: D) 400 to 550 psi**

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

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

**Answer: B) Diesel Cycle**

**42.** Which engine has more length?

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

**Answer: B) Opposed engine**

**43.** Which ministry of India regulate the motor vehicle activity?

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

**Answer: B) Minister of road transport and highways**

**44.** Which engine has carburetor?

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

**Answer: B) Petrol**

**45.** Which is the engine having cylinders in 180 Degree?

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

**Answer: D) Opposed engine**

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

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

**Answer: A) Power**

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

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

**Answer: D) 8 digit**

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

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

**Answer: D) 80 mm**

**49.** Which is the starting system used in heavy vehicles?

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

**Answer: C) Electric motor cranking**

**50.** 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**

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

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

**Answer: C) Throw**

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

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

**Answer: A) Octane number**

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

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

**Answer: D) Two times**

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

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

**Answer: C) 1887**

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

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

**Answer: C) 1980**

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**56.** What is the mechanical efficiency of an engine?

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

**Answer: D)  $(BHP/IHP) \times 100$**

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