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Score: 21/56 (37.50%)

Code: 4731

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

- A) 1810 **B) 1887 (Correct)**
C) 1910 D) 1950

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

- A) 1900 B) 1900
C) 1940 **D) 1980 (Correct)**

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

- A) Hydraulic (Incorrect) **B) Mechanical**
C) Electrical brake D) Pneumatic brake

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

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

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

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

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

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

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

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

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

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

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

- A) 2 digit B) 3 digit
C) 5 digit (Incorrect) **D) 8 digit**

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

- A) Torque **B) Power**

C) Stroke length (Incorrect) D) Cycle

11. Which engine has more length?

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

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

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

13. How can identify a four stroke engine?

- A) Valves (Correct)** B) Ports
C) Cavities D) Passages

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

- A) Diesel cycle (Correct)** B) Otto cycle
C) Sterling cycle D) Rankin cycle

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

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

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

- A) One **B) Two (Correct)**
C) Three D) Four

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

- A) Swept volume **B) Clearance volume**
C) Total volume D) Displace volume (Incorrect)

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

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

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

- A) Intake port B) Exhaust port

C) Transfer port (Incorrect)

D) Combustion chamber

C) IHP

D) RHP

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

A) One

B) Two (Correct)

C) Three

D) Four

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

A) 20 mm

B) 40 mm (Incorrect)

C) 60 mm

D) 80 mm

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

A) 60 Degree

B) 90 Degree

C) 120 Degree

D) 180 Degree (Correct)

32. When the valve clearance to be adjusted?

A) Fully closed

B) Partially closed

C) Fully opened (Incorrect)

D) Just opened

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

A) Cycle (Incorrect)

B) Throw

C) Dia of piston

D) Length of connecting rod

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

A) Electric motor cranking (Correct)

B) Hand cranking

C) Gasoline engine cranking

D) Compressed air cranking

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

A) Cycle (Correct)

B) Stroke

C) Stroke

D) Efficiency

34. Which engine has fuel injection pump?

A) Petrol engine

B) Diesel engine (Correct)

C) CRDI engine

D) MPFI engine

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

A) 90 to 160 psi

B) 180 to 280 psi (Incorrect)

C) 290 to 390 psi

D) 400 to 550 psi

35. Which engine has carburetor?

A) Petrol

B) Diesel (Incorrect)

C) Kerosene

D) Mineral oil

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

A) S.I engine

B) C.I engine (Incorrect)

C) Turbine engine

D) Steam engine

36. What is the mechanical efficiency of an engine?

A) $(\text{BHP}/\text{IHP}) \times 100$

B) $(\text{BHP}/\text{FHP}) \times 100$

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

D) $(\text{FHP}/\text{BHP}) \times 100$ (Incorrect)

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

A) Constant volume

B) Constant pressure

C) Diesel Cycle (Correct)

D) Isothermal

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

A) Combustion

B) Super charging (Incorrect)

C) Scavenging

D) Intaking

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

A) Constant volume

B) Constant pressure

C) Diesel Cycle (Correct)

D) Isothermal

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

A) To enter air

B) To avoid suction of water in fuel

C) To enter condensed water

D) To act atmospheric pressure (Incorrect)

28. How can identify a two stroke engine?

A) Valves (Incorrect)

B) Ports

C) Cavities

D) Passages

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

A) 08:01

B) 09:01

C) 10:01 (Correct)

D) 11:01

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

A) Creating suction (Incorrect)

B) Creating pressure

C) Supply correct quantity of fuel

D) Allow the fuel to suck and deliver

30. Which is the power developed in an engine?

A) BHP (Incorrect)

B) IHP

40. Which causes the air enter into cylinder?

A) Air filtering (Incorrect)

B) Engine vacuum

- | | | | |
|--------------------------|----------------------------------|--------------------------------|------------------|
| C) AC fuel pump pressure | D) Carburettor air-horn pressure | A) Volatility (Correct) | B) Viscosity |
| | | C) Cetane number | D) Octane number |

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

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

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

- | | |
|--|---|
| A) Decrease the fuel pressure | B) Excess supply of fuel at idle |
| C) Always holds correct level of fuel | <u>D) Controls the air flow of the engine (Incorrect)</u> |

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

- | | |
|---|---|
| A) Filter the fuel | B) Always holds correct fuel |
| <u>C) Excess supply of fuel at idle (Incorrect)</u> | D) Controls air fuel mixture into the engine |

44. What is the purpose of accelerating pump circuit?

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|------------------------------------|--|
| A) Provides an economic mixture | <u>B) Provides mixture for low speed (Incorrect)</u> |
| C) Provides mixture for idle speed | D) Provides extra fuel during pick up speed |

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

- | | |
|----------------------|------------------------------------|
| A) Tank | B) Fuel filter |
| C) Carburetor | <u>D) AC fuel pump (Incorrect)</u> |

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

- | | |
|------------------|-----------------------------------|
| A) Volatility | B) Viscosity |
| C) Cetane number | D) Octane number (Correct) |

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

- | | |
|-------------------------|-------------------------------------|
| A) Volatility | B) Viscosity |
| C) Cetane number | <u>D) Octane number (Incorrect)</u> |

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

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

- | | |
|-------------------------------------|---------------------|
| A) Volatility | B) Viscosity |
| <u>C) Cetane number (Incorrect)</u> | D) Octane number |

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

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

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

- | | |
|-------------------------|-------------|
| <u>A) 4 (Incorrect)</u> | B) 5 |
| C) 6 | D) 7 |

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

- | | |
|---------------|---------------------------|
| A) One | <u>B) Two (Incorrect)</u> |
| C) Three | D) Four |

53. What is heat?

- | | |
|----------------------------|-------------|
| A) Torque | B) Force |
| C) Energy (Correct) | D) Velocity |

54. What is indicated horse power?

- | | |
|---|--|
| A) Power developed in the cylinder | B) Power developed in the flywheel |
| C) Power developed in the propeller shaft | <u>D) Power developed in the wheel (Incorrect)</u> |

55. What is brake horse power?

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

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

- | | |
|---------------------|---------------------------------|
| A) IHP - BHP | <u>B) IHP + BHP (Incorrect)</u> |
| C) IHP / BHP | D) BHP / IHP |