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Score: 23/50 (46.00%)

Code: 9213

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

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

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

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

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

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

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

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

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

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

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

- A) Stand
B) Screw jack
C) **Trolley jack (Correct)**
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 (Incorrect)
B) Engine size
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
D) **8 digit (Correct)**

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

- A) Torque
B) **Power**
C) Stroke length
D) Cycle (Incorrect)

11. Which engine has more length?

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

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

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

13. How can identify a four stroke engine?

- A) **Valves**
B) Ports (Incorrect)
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**
C) Three
D) Four (Incorrect)

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

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

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

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

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

A) Intake port (Incorrect)
C) Transfer port

B) Exhaust port
D) Combustion chamber

A) BHP
C) IHP (Incorrect)

B) IHP
D) RHP

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

A) One
C) Three (Incorrect)

B) Two
D) Four

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

A) 20 mm
C) 60 mm

B) 40 mm
D) 80 mm (Correct)

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

A) 60 Degree (Incorrect)
C) 120 Degree

B) 90 Degree
D) 180 Degree

32. When the valve clearance to be adjusted?

A) Fully closed (Incorrect)
C) Fully opened

B) Partially closed
D) Just opened

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

A) Cycle
C) Dia of piston

B) Throw (Correct)
D) Length of connecting rod

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

A) Cycle
C) Stroke (Incorrect)

B) Stroke
D) Efficiency

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

A) Electric motor cranking (Correct)
C) Gasoline engine cranking

B) Hand cranking
D) Compressed air cranking

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

A) 90 to 160 psi
C) 290 to 390 psi

B) 180 to 280 psi
D) 400 to 550 psi (Correct)

34. Which engine has fuel injection pump?

A) Petrol engine
C) CRDI engine

B) Diesel engine (Correct)
D) MPFI engine

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

A) S.I engine
C) Turbine engine

B) C.I engine (Incorrect)
D) Steam engine

35. Which engine has carburetor?

A) Petrol
C) Kerosene

B) Diesel (Incorrect)
D) Mineral oil

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

A) Constant volume
C) Diesel Cycle (Correct)

B) Constant pressure
D) Isothermal

36. What is the mechanical efficiency of an engine?

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

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

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

A) Constant volume
C) Diesel Cycle (Correct)

B) Constant pressure
D) Isothermal

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

A) Combustion (Incorrect)
C) Scavenging

B) Super charging
D) Intaking

28. How can identify a two stroke engine?

A) Valves
C) Cavities

B) Ports (Correct)
D) Passages

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

A) To enter air
C) To enter condensed water (Incorrect)

B) To avoid suction of water in fuel
D) To act atmospheric pressure

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
C) 10:01 (Correct)

B) 09:01
D) 11:01

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

A) Creating suction
C) Supply correct quantity of fuel (Incorrect)

B) Creating pressure
D) Allow the fuel to suck and deliver

30. Which is the power developed in an engine?

40. Which causes the air enter into cylinder?

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

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

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

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

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

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

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

44. What is the purpose of accelerating pump circuit?

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

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

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

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

- A) Volatility
C) Cetane number
- B) Viscosity (Incorrect)
D) **Octane number**

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

- A) Volatility
C) **Cetane number**
- B) Viscosity (Incorrect)
D) Octane number

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

- A) **Volatility**
C) Cetane number
- B) Viscosity (Incorrect)
D) Octane number

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

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

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

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