

1. A man can develop:

A. 0.1 hp

B. 0.5 hp

C. 0.75 hp

D. 1.0 hp

Answer: Option **A**

2. The average force that a bullock can exert:

A. 1/5th of their body weight

B. 1/10th of their body weight

C. 1/20th of their body weight

D. 1/25th of their body weight

Answer: Option **B**

3. Medium size bullock can develop:

A. 0.50 to 0.75 hp

B. 0.75 to 1.0 hp

C. 0.75 hp to 1.1 hp

D. 1.0 to 1.5 hp

Answer: Option **A**

4. The thermal efficiency of diesel engine varies between:

A. 25 and 32 per cent

B. 32 and 38 per cent

C. 32 and 40 per cent

D. 40 and 45 per cent

Answer: Option **B**

5. The thermal efficiency of petrol engine varies between:

A. 25 and 32 per cent

B. 30 and 35 per cent

C. 32 and 38 per cent

D. 30 to 40 percent

Answer: Option **A**

6. The extra high speed engines used in knapsack sprayers are powered by:

A. Kerosene

B. Diesel

C. Petrol

D. Dual fuel

Answer: Option **C**

7. Broad base terrace is also known as:

A. Bench terrace

B. Channel terrace

C. Drainage type terrace

D. None of these

Answer: Option **C**

8. The velocity required to operate wind mill is more than:

A. 5 km ph

B. 10 km ph

C. 5 miles per hour

D. 10 miles per hour

Answer: Option **B**

9. Bench terracing is also called as:

A. Hill farming

B. Staircase farming

C. Erosion control farming

D. None of these

Answer: Option **B**

10. The power produced from a wind speed 6.4 to 37 km ph by windmill varies from:

A. 0.1 to 0.5 hp

B. 0.1 to 0.9 hp

C. 0.5 to 1 hp

D. 1 to 9 hp

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Answer: Option **B**

11. A ten human power equals to:

A. 0.1 hp

B. 0.5 hp

C. 1.0 hp

D. 10.0 hp

Answer: Option **C**

12. A pair of bullock develops power equivalent to:

A. 0.5 hp

B. 1.0 hp

C. 1.5 hp

D. 2.0 hp

Answer: Option **B**

13. Two wind mills equivalent to:

A. 1.0 hp

B. 1.25 hp

C. 1.5 hp

D. 2.0 hp

Answer: Option **A**

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14. The land holding of small farmer is

- A. Less than 4 ha land B. Less than 10 ha land
C. More than 4 ha land D. More than 10 ha land

Answer: Option **A**

15. A marginal farmer has land holding:

- A. Less than 4 ha land B. Between 4 and 10 ha
C. Less than 10 ha D. More than 10 ha

Answer: Option **B**

16. The land holding of large farmer is:

- A. Less than 4 ha land B. Between 4 and 10 ha
C. Less than 10 ha D. More than 10 ha

Answer: Option **D**

17. Grassed waterways are used as:

- [A.](#) Diversion channels
- [B.](#) Outlets
- [C.](#) Inlet to terrace system
- [D.](#) All are correct

Answer: Option **B**

18. Crop management system reduces the:

- [A.](#) Detachment of soil particles
- [B.](#) Transport of soil particles
- [C.](#) Both (a) & (b)
- [D.](#) None of these

Answer: Option **C**

19. The primary objective of level bench terrace is to:

- [A.](#) Conserve water and control erosion
- [B.](#) Reduce runoff
- [C.](#) Make steeply land cultivable
- [D.](#) All are correct

Answer: Option **A**

20. The low speed engine runs at speed of:

- [A.](#) 350 rpm
- [B.](#) Less than 350 rpm

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C. More than 350 rpm

D. More than 1000 rpm

Answer: Option **B**

21. The speed range of medium speed engine is:

A. Less than 350 rpm

B. Between 350 rpm and 1000 rpm

C. Less than 1000 rpm

D. More than 1000 rpm

Answer: Option **B**

22. The speed of high-speed engine:

A. Less than 350 rpm

B. Between 350 rpm and 1000 rpm

C. Less than 1000 rpm

D. More than 1000 rpm

Answer: Option **D**

23. The single cylinder engine is generally used in:

A. Tractor

B. Stationary engine

C. Motor cars

D. Power tiller engine

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Answer: Option **B**

24. The steam engine is

- | | |
|--------------------------------|-----------------------------|
| <u>A.</u> Single stroke engine | <u>B.</u> Two stroke engine |
| <u>C.</u> Four-stroke engine | <u>D.</u> None of these |

Answer: Option **A**

25. The two-stroke engine is:

- | | |
|-------------------------|-------------------------|
| <u>A.</u> Diesel engine | <u>B.</u> Steam engine |
| <u>C.</u> Petrol engine | <u>D.</u> None of these |

Answer: Option **C**

26. The diesel engine used on tractors are:

- | | |
|------------------------------|-----------------------------|
| <u>A.</u> One-stroke engine | <u>B.</u> Two-stroke engine |
| <u>C.</u> Four stroke engine | <u>D.</u> None of these |

Answer: Option **C**

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27. The carburetor is main part of:

- | | |
|-------------------------|------------------------|
| <u>A.</u> Diesel engine | <u>B.</u> Steam engine |
| <u>C.</u> Petrol engine | <u>D.</u> Gas engine |

28. Diesel engine works on principle of:

- | | |
|------------------------|-------------------------|
| <u>A.</u> Diesel cycle | <u>B.</u> Otto cycle |
| <u>C.</u> Carnot cycle | <u>D.</u> None of these |

Answer: Option **A**

29. The injector and fuel pump are the heart of:

- | | |
|-------------------------|------------------------|
| <u>A.</u> Diesel | <u>B.</u> Steam engine |
| <u>C.</u> Petrol engine | <u>D.</u> Gas engine |

Answer: Option **A**

30. In two-stroke cycle engine, one power stroke is obtained after every:

- | | |
|---|--|
| <u>A.</u> Half revolution of crankshaft | <u>B.</u> One revolution of crankshaft |
| <u>C.</u> Two revolution of crankshaft | <u>D.</u> Three revolution of crankshaft |

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Answer: Option **B**

31. In four-stroke cycle engine, one power stroke is obtained after every:

- | | |
|---|--|
| <u>A.</u> Half revolution of crankshaft | <u>B.</u> One revolution of crankshaft |
| <u>C.</u> Two revolution of crankshaft | <u>D.</u> Three revolution of crankshaft |

Answer: Option **C**

32. The carburetor of an engine is used to mix fuel with:

- | | |
|---------------|-------------------------|
| <u>A.</u> Air | <u>B.</u> Water |
| <u>C.</u> Oil | <u>D.</u> None of these |

Answer: Option **A**

33. The firing order of 4-stroke 4-cylinder engine is:

- | | |
|-------------------|-------------------|
| <u>A.</u> 1-3-2-4 | <u>B.</u> 1-3-4-2 |
| <u>C.</u> 1-4-3-2 | <u>D.</u> 1-2-3-4 |

Answer: Option **B**

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34. The firing order of 4 strokes 6 cylinder engine is:

A. 1-5-3-6-2-4

B. 1-3-4-2-6-5

C. 1-3-2-5-4-6

D. 1-3-5-6-4-2

Answer: Option **A**

35. The firing interval of 2-stroke two-cylinder engine is:

A. 180

B. 360

C. 120

D. 720

Answer: Option **B**

36. The firing interval of 2-stroke two-cylinder engine is:

A. 90

B. 180

C. 360

D. 720

Answer: Option **B**

37. The compression ratio of diesel engine is:

A. 4 to 8:1

B. 14 to 20:1

C. 4 to 1:1

D. 14 to 22:1

Answer: Option **B**

38. The compression ratio of petrol engine is:

A. 4 to 8:1

B. 4 to 10:1

C. 8 to 15:1

D. 14 to 2:1

Answer: Option **A**

39. The air fuel ratio of diesel engine is:

A. 8:01

B. 15:01

C. 20:01

D. None of these

Answer: Option **A**

40. The air fuel ratio of petrol engine is:

A. 10;1

B. 15;1

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C. 20;1

D. None of these

Answer: Option **B**

41. The IHP of the engine indicates:

A. Power on piston

B. Power on flywheel

C. Power on drawbar

D. Loss of power

Answer: Option **A**

42. The BHP of an engine indicates

A. Power on piston

B. Power on flywheel

C. Power on drawbar

D. Power on PTO

Answer: Option **B**

43. In diesel cycle engine heat is added at:

A. Constant pressure

B. Constant temperature

C. Constant volume

D. None of these

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Answer: Option **A**

44. In Otto cycle. Heat is added at:

- | | |
|-----------------------------|--------------------------------|
| A. Constant pressure | B. Constant temperature |
| C. Constant volume | D. None of these |

Answer: Option **C**

45. The square engine has:

- | | |
|--------------------------------------|--|
| A. Cylinder of square section | B. Combustion chamber of square section |
| C. Equal bore and stroke | D. Piston of square section |

Answer: Option **C**

46. The cross sectional area of one cylinder of an engine multiplied by its stroke is:

- | | |
|----------------------------|-----------------------------|
| A. Clearance volume | B. Combustion volume |
| C. Swept volume | D. Piston volume |

Answer: Option **C**

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47. A power stroke in single cylinder 4-stroke engine occurs at:

- A. 720° of crankshaft rotation B. 360° of crankshaft rotation
C. 180° of crankshaft rotation D. 120° of crankshaft rotation

Answer: Option **A**

48. In three cylinder in-line engine the power impulse occurs after every:

- A. 720° of crankshaft rotation B. 360° of crankshaft rotation
C. 240° of crankshaft rotation D. 120° of crankshaft rotation

Answer: Option **C**

49. In six cylinder in-line engine, the power impulse occurs after every:

- A. 720 of crankshaft rotation B. 360 of crankshaft rotation
C. 240 of crankshaft rotation D. 120 of crankshaft rotation

Answer: Option **D**

50. The fluctuation of engine speed during a cycle depends upon:

- | | |
|-----------------------------|------------------------------|
| <u>A.</u> Mass of flywheel | <u>B.</u> Mass of crankshaft |
| <u>C.</u> Speed of flywheel | <u>D.</u> Governor speed |

Answer: Option **A**

51. The material used for construction of cylinder block is:

- | | |
|-------------------------------|--|
| <u>A.</u> Cast iron and steel | <u>B.</u> Cast iron and aluminum alloy |
| <u>C.</u> Brass and steel | <u>D.</u> Steel and aluminum alloy |

Answer: Option **B**

52. The compression rings mounted on piston are generally made of:

- | | |
|-----------------------------|--------------------|
| <u>A.</u> Low carbon steel | <u>B.</u> Aluminum |
| <u>C.</u> High carbon steel | <u>D.</u> Chromium |

Answer: Option **D**

53. In an engine, the angle between the cylinder axes and the crankshaft centre line is:

- | | |
|---------------|---------------|
| <u>A.</u> 60° | <u>B.</u> 90° |
|---------------|---------------|

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C. 180?

D. 120?

Answer: Option **B**

54. The gasket sealing is the most difficult problem at:

A. Head

B. Oil pan

C. Intake manifold

D. Timing cover

Answer: Option **A**

55. The camshaft in an engine is always mounted:

A. Perpendicular to the crankshaft

B. Inclined to the crankshaft

C. Parallel to the crankshaft

D. Inline to crank shaft

Answer: Option **C**

56. The piston skirt clearance at room temperature is:

A. 0.004 mm

B. 0.04 mm

C. 0.55 mm

D. 1.00 mm

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Answer: Option **B**

57. The piston pin of some engine is offset to:

- | | |
|-----------------------------|----------------------|
| <u>A.</u> Major thrust side | <u>B.</u> Right side |
| <u>C.</u> Minor thrust side | <u>D.</u> Lift side |

Answer: Option **D**

58. The main purpose of piston rings is:

- | | |
|--|--|
| <u>A.</u> To control combustion pressure | <u>B.</u> To control cylinder wall lubrication |
| <u>C.</u> To drain out excessive oil | <u>D.</u> All are correct |

Answer: Option **D**

59. The primary purpose of ring expander is to:

- | | |
|---|--|
| <u>A.</u> Make up for cylinder, wear | <u>B.</u> Increase static ring tension |
| <u>C.</u> Decrease dynamic ring tension | <u>D.</u> Reduce ring vibration |

Answer: Option **A**

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- A. Valve closing
- B. Valve opening
- C. Valve timing
- D. All are correct

Answer: Option **D**

64. The pushrod is located between:

- A. Valve and rocker arm
- B. Tappet and rocker arm
- C. Tappet and camshaft
- D. Valve and camshaft

Answer: Option **B**

65. The six-cylinder engine with possible number of firing orders is:

- A. 6
- B. 4
- C. 3
- D. 2

Answer: Option **B**

66. Valve timing diagram is a function of:

- A. Engine speed
- B. Engine compression
- C. Engine torque
- D. I.M.E.P

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Answer: Option **A**

67. The specific fuel consumption of diesel engine is:

A. 180 gm/bhp/hr

B. 200 gm/bhp/hr

C. 150 gm/bhp/hr

D. 290 gm/bhp/hr

Answer: Option **B**

68. The specific fuel consumption of petrol engine is:

A. 180 gm/bhp/hr

B. 200 gm/bhp/hr

C. 150 gm/bhp/hr

D. 290 gm/bhp/hr

Answer: Option **D**

69. What the stroke: bore ratio of an engine increases, the volumetric efficiency of the engine:

A. Decreases

B. Increases

C. Remains unchanged

D. None of these

Answer: Option **A**

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C. 75-80°C

D. None of these

Answer: Option **A**

77. Working temperature of petrol engine ranges from:

A. 71-82°C

B. 82-88°C

C. 75-80°C

D. None of these

78. White smoke indicates:

A. Presence of water in fuel

B. Burning of lubricant in cylinder

C. Presence of waer in lubricant

D. Rich air and fuel mixer

Answer: Option **A**

79. Blue smoke indicates:

A. Presence of water in fuel

B. Burning of lubricant in cylinder

C. Presence of waer in lubricant

D. Rich air and fuel mixer

Answer: Option **B**

80. The specific fuel consumption of diesel engine is:

- A. More than petrol engine B. Less than petrol engine
C. Equal to petrol engine D. None of these

Answer: Option **B**

81. The purpose of governor in the engine:

- A. To increase the engine speed B. To regulate the engine speed
C. To decrease the engine speed D. None of these

Answer: Option **B**

82. The first IC engine was invented in the year:

- A. 1876 B. 1890
C. 1900 D. 1905

Answer: Option **A**

83. The IHP of an engine is always:

- A. Less than BHP B. More than BHP

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C. Equal to the BHP

D. Equal to the FHP

Answer: Option **B**

84. The clearance volume is the volume of air or mixture left in the cylinder when piston is at:

A. BDC

B. TDC

C. Between TDC and BDC

D. All are correct

Answer: Option **B**

85. The compression pressure of diesel engine inside the cylinder varies from:

A. 30-40 kg/cm²

B. 35-45 kg/cm²

C. 40-50 kg/cm²

D. 50-60 kg/cm²

Answer: Option **B**

86. The compression pressure of petrol engine inside the cylinder varies from:

A. 6-10 kg/cm²

B. 10-15 kg/cm²

C. 8-12 kg/cm²

D. 12-15 kg/cm²

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Answer: Option **A**

87. The firing interval of 2-stroke engine is determined by:

A. $180^\circ/\text{No. of cylinder}$

B. $270^\circ/\text{No. of cylinder}$

C. $360^\circ/\text{No. of cylinder}$

D. $720^\circ/\text{No. of cylinder}$

Answer: Option **C**

88. The firing interval of 4-stroke engine is determined by:

A. $180^\circ/\text{No. of cylinder}$

B. $270^\circ/\text{No. of cylinder}$

C. $360^\circ/\text{No. of cylinder}$

D. $720^\circ/\text{No. of cylinder}$

Answer: Option **D**

89. The rate of doing work is equal to:

A. 75 kg n/min

B. 4500 kg m/min

C. 27000 kg m/hr

D. All are correct

Answer: Option **D**

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90. The efficiency of IC engines varies from:

A. 25 to 32 per cent

B. 30 to 40 per cent

C. 35 to 40 per cent

D. 32 to 38 per cent

Answer: Option **C**

91. The efficiency of external combustion engine ranges from:

A. 10 to 15 per cent

B. 10 to 20 per cent

C. 15 to 30 per cent

D. 30 to 40 per cent

Answer: Option **A**

92. The weight of diesel engine per horsepower is:

A. Lighter than petrol engine

B. Equal to petrol engine

C. Heavier than petrol engine

D. None of these

Answer: Option **C**

93. The thermal efficiency of CI engine is:

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- A. Higher than SI engine B. Lower than SI engine
C. Equal to SI engine D. None of these

Answer: Option **A**

94. Piston of an engine is made of:

- A. Cast Iron B. Aluminium alloy
C. Nickel Iron alloy D. All are correct

Answer: Option **D**

95. Gudgeon pin of engine piston is made of:

- A. Case hardened steel B. Cast iron
C. Aluminium alloy D. All are correct

Answer: Option **A**

96. Piston pin connected piston with:

- A. Crankshaft B. Connecting rod
C. Camshaft D. Flywheel

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Answer: Option **B**

97. Connecting rod converts:

- | | |
|---|---|
| <u>A.</u> Reciprocating motion piston into rotary motion crankshaft | <u>B.</u> Rotary motion of piston into reciprocating motion of crankshaft |
| <u>C.</u> Rotary motion of piston into oscillatory motion of crankshaft | <u>D.</u> Oscillatory motion of piston into rotary motion of crankshaft |
-

Answer: Option **A**

98. Oil rings on the piston are located:

- | | |
|--------------------------------------|----------------------------------|
| <u>A.</u> Below the compression ring | <u>B.</u> Above the piston skirt |
| <u>C.</u> Above the compression ring | <u>D.</u> Both (a) & (b) |
-

Answer: Option **D**

99. The work timing gear is to:

- | | |
|---|---|
| <u>A.</u> Control the ignition timing | <u>B.</u> Control the fuel injection timing |
| <u>C.</u> Control the timing of opening and closing of valves | <u>D.</u> All are correct |
-

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Answer: Option **D**

100. The fuel used in EC engines for generation of power is:

A. Petrol

B. Diesel

C. Kerosene

D. Steam

Answer: Option **D**