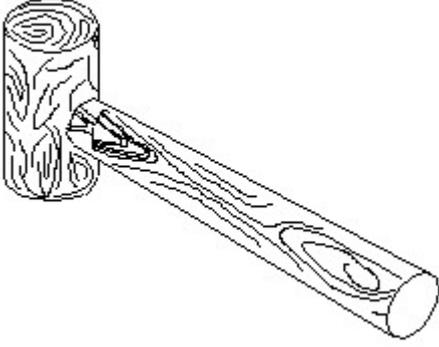


Student Name: \_\_\_\_\_ Roll No: \_\_\_\_\_

1. Identify the name of tool? | ಉಪಕರಣದ ಹೆಸರನ್ನು ಗುರುತಿಸುವುದೇ?

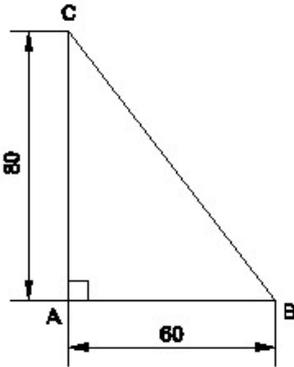


- A) Mallet | ಮ್ಯಾಲೆಟ್  
 B) Straight pein hammer | ಸ್ಟ್ರೇಟ್ ಪೆಯಿನ್ ಸುತ್ತಿಗೆ  
 C) Ball pein hammer | ಬಾಲ್ ಪೆನ್ ಸುತ್ತಿಗೆ  
 D) Cross pein hammer | ಕ್ರಾಸ್ ಪೀನ್ ಸುತ್ತಿಗೆ

2. What is the definition of ratio?

- A) Inequality between two ratios  
 B) Relation of two quantities of the different kind  
 C) Relation of two quantities of the same kind  
 D) Equality between two ratios

3. Identify the name of the triangle? | ತ್ರಿಕೋನದ ಹೆಸರನ್ನು ಗುರುತಿಸುವುದೇ?



- A) Isosceles triangle | ಸಮದ್ವಿಭಾಹು ತ್ರಿಕೋನ  
 B) Scalene triangle | ಸ್ಕೇಲಿನ್ ತ್ರಿಕೋನ  
 C) Right angle triangle | ಬಲ ಕೋನ ತ್ರಿಕೋನ  
 D) Equilateral triangle | ಸಮಕೋನ ತ್ರಿಕೋನ

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

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

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

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

6. Convert 52% into fraction?

- A) (13/25)  
 B) (17/25)  
 C) (11/25)  
 D) (9/25)

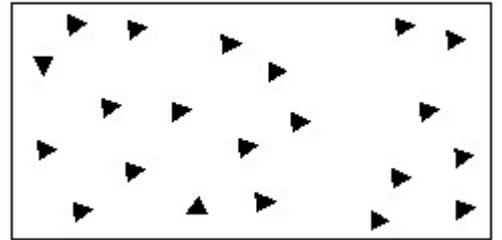
7. What is the angle of throw for 4 cylinder engine?

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

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

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

9. Identify the conventional symbol of material? | ವಸ್ತುವಿನ ಕನ್ವೆಷನಲ್ ಚಿಹ್ನೆಯನ್ನು ಗುರುತಿಸಿ?



- A) Steel | ಸ್ಟೀಲ್  
 B) Wood | ಮರ  
 C) Concrete | ಕಾಂಕ್ರೀಟ್  
 D) Glass | ಗಾಜು

10. Which tool is required to remove the valves?

- A) Box spanner  
 B) Scraper  
 C) Valve spring lifter  
 D) Torque wrench

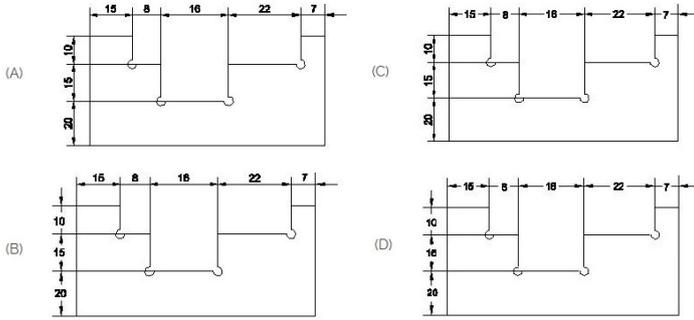
11. How much is 8% of 40 kg?

- A) 4.2 kg  
 B) 3.2 kg  
 C) 2.2 kg  
 D) 5.2 kg

12. What is the ratio of 4 kg to 800 grams?

- A) 05:01  
B) 02:04  
C) 04:08  
D) 08:04

13. Identify the correct aligned system dimension? | ಸರಿಯಾದ ಜೋಡಿಸಲಾದ ಸಿಸ್ಟಮ್ ಆಯಾಮವನ್ನು ಗುರುತಿಸುವುದೇ?



- A) A  
B) B  
C) C  
D) D

14. What type of bearing fitted in the connecting rod big end?

- A) Needle bearing  
B) Taper roller bearing  
C) Ball bearing  
D) Shell bearing

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

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

16. What is the property of a bearing helps to with stand metal to metal contact?

- A) Thermal conductivity  
B) Embeddability  
C) Surface action  
D) Fatigue strength

17. Which instrument is used to check the vacuum of the cylinder?

- A) Wire gauge  
B) Dial gauge  
C) Vacuum gauge  
D) Compression gauge

18. Which is the most preferred use of taper roller bearings?

- A) Differential and wheel hub  
B) Fly wheel and water pump  
C) Gear boxes  
D) Connecting rods

19. What percentage of 80 is 20?

- A) 0.2  
B) 0.8  
C) 0.25  
D) 0.4

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

- A) Two  
B) One

C) Four

D) Three

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

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

22. 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

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

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

24. Which measuring instrument used to check the fly wheel face out?

- A) Feeler gauge  
B) Compression gauge  
C) Dial indicator  
D) Outside micrometer

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

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

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

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

27. Which is the most preferred use of roller bearings?

- A) Connecting rods  
B) Gear boxes  
C) Fly wheel  
D) Differential

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

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

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

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

30. Which is connected with piston through piston pin?

- A) Connecting rod  
B) Cam shaft  
C) Rocker arm  
D) Gudgeon pin

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

- A) Four  
B) Three

C) Two

D) One

A) Swept volume

B) Displace volume

C) Clearance volume

D) Total volume

32. What is the square root of 0.017?

A) 0.001

B) 0.000001

C) 0.13

D) 0.00001

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

A) Vehicle size

B) Wheel rim size

C) Tyre size

D) Engine size

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

A) 3 digit

B) 5 digit

C) 2 digit

D) 8 digit

35. Which part is connect the piston with crank pin?

A) Crank Shaft

B) Connecting rod

C) Push rod

D) Cam Shaft

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

A) Constant pressure

B) Isothermal

C) Constant volume

D) Diesel Cycle

37. Which engine has more length?

A) Inline engine

B) Opposed engine

C) 'V' engine

D) Radial engine

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

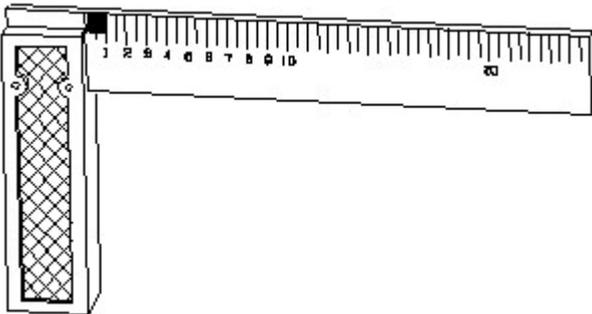
A) One time

B) Three times

C) Four times

D) Two times

39. 1). Identify the name of tool? | ಉಪಕರಣದ ಹೆಸರನ್ನು ಗುರುತಿಸುವುದೇ?



A) Steel rule | ಸ್ಟೀಲ್ ರೂಲ್

B) Feeler gauge | ಫೀಲರ್ ಗೇಜ್

C) Surface gauge | ಮೇಲ್ಮೈ ಮಾಪಕ

D) Try square | ಟ್ರೈ ಸ್ಕ್ವೇರ್

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

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

A) Turbine engine

B) Steam engine

C) C.I engine

D) S.I engine

42. Which tool is used to measure the diameter of the crank shaft main journal?

A) Three point internal micrometer

B) Master ring gauge

C) Inside micrometer

D) Outside micrometer

43. What is the material for cam shaft?

A) Forged alloy steel

B) Copper alloy

C) Aluminium alloy

D) Zinc alloy

44. Which tool used to remove the crank shaft pully?

A) Double and spanner

B) Ring spanner

C) Puller

D) Pipe wrench

45. Which is the key element in converting reciprocating motion in to rotary motion?

A) Gudgeon pin

B) King pin

C) Connecting rod

D) Cam shaft

46. How can identify a four stroke engine?

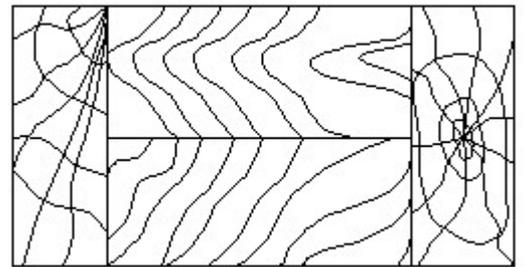
A) Valves

B) Passages

C) Cavities

D) Ports

47. Identify the conventional symbol of material? | ವಸ್ತುವಿನ ಕನ್ವೆಷನಲ್ ಚಿಹ್ನೆಯನ್ನು ಗುರುತಿಸಿ?



A) Wood | ಮರ

B) Glass | ಗಾಜು

C) Paper | ಪೇಪರ್

D) Lead | ಲೀಡ್

48. Which part connect the piston with connecting rod?

A) Piston pin

B) Spilt pin

C) Cotter pin

D) Crank pin

49. Which ministry of India regulate the motor vehicle

activity?

- A) Minister of finance
- C) Minister of rural and development

- B) Minister of defence
- D) Minister of road transport and highways

**50.** What is the name the portion below the piston boss?

- A) Crown of the piston
- C) Skirt of the piston
- B) Ring section of the piston
- D) Land of the piston