Unit 2 - Week 1

Assignment 1

The due date for submitting this assignment has passed.
As per our records you have not submitted this assignment.

Due on 2020-02-12, 23:59 IST.

1) A heat engine is a device that converts chemical energy in fuel into _____ energy finally. *1 point*

- potential
- kinetic
- internal
- electrical

No, the answer is incorrect.
Score: 0
Accepted Answers:
kinetic

2) An IC engine in which the fuel air mixture is introduced into the combustion chamber at near atmospheric pressure is called a _____ engine. *1 point*

- supercharged
- turbocharged
- pressurized
- naturally aspirated

No, the answer is incorrect.
Score: 0
Accepted Answers:
naturally aspirated

3) A _____ sleeve is thicker and in direct contact with the coolant. *1 point*

- wet
- dry
- hot
- cold

No, the answer is incorrect.
Score: 0
Accepted Answers:
wet

4) A _____ pin connects the piston to the connecting rod. *1 point*

- caster
- circlip
- gudgeon
- snap

No, the answer is incorrect.
Score: 0
Accepted Answers:
gudgeon

5) Twice the crankshaft _____ is equal to the distance travelled by the piston in one stroke. *1 point*

- offset
- length
- width
- thickness

No, the answer is incorrect.
Score: 0
Accepted Answers:
offset

6) The _____ valve is used to remove the products of combustion from the cylinder. *1 point*

- intake
- transfer
- exhaust
- intermediate

No, the answer is incorrect.
Score: 0
Accepted Answers:
exhaust

7) Let the crankshaft of a 4-stroke IC engine be rotating at 1500 rpm. Then, the time duration (in ms) of one intake stroke is *1 point*

- 40
- 10
- 20
- 5

No, the answer is incorrect.
Score: 0
Accepted Answers:
20

8) Valve train noise can be reduced by using a _____ valve. *1 point*

- larger
- tappet
- spring loaded
- thicker

No, the answer is incorrect.
Score: 0
Accepted Answers:
tappet

9) The main problem encountered with spring return valves at high speed is that of *1 point*

- valve life
- valve failure
- valve robustness
- valve float

No, the answer is incorrect.
Score: 0
Accepted Answers:
valve float

10) Let the crankshaft of a 4-stroke engine be rotating at 2500 rpm. Then, the camshaft should rotate at *1 point*

- 2500 rpm
- 1250 rpm
- 5000 rpm
- 625 rpm

No, the answer is incorrect.
Score: 0
Accepted Answers:
1250 rpm

11) The component that smoothens out the torque variations in the engine output is the *1 point*

- crankshaft
- camshaft
- flywheel
- piston

No, the answer is incorrect.
Score: 0
Accepted Answers:
flywheel

12) The position of the piston when it is nearest to the crankshaft is referred to as the _____ dead centre. *1 point*

- bottom
- top
- near
- far

No, the answer is incorrect.
Score: 0
Accepted Answers:
bottom

13) The nominal volume of the combustion chamber when the piston is at TDC is called as _____ volume. *1 point*

- displacement
- total
- cylinder
- clearance

No, the answer is incorrect.
Score: 0
Accepted Answers:
clearance

14) Which one of the following statements is true about the suction stroke in a 4-stroke IC engine? *1 point*

- The exhaust valve remains closed.
- The inlet valve remains closed.
- The piston moves away from the BDC.
- The piston moves towards the TDC.

No, the answer is incorrect.
Score: 0
Accepted Answers:
The exhaust valve remains closed.

15) Which one of the following statements is true about the compression stroke in a 4-stroke IC engine? *1 point*

- The exhaust valve remains open.
- The inlet valve remains open.
- The piston moves away from the BDC.
- The piston moves away from the TDC.

No, the answer is incorrect.
Score: 0
Accepted Answers:
The piston moves away from the BDC.