

Sample Questions

Mechanical Engineering

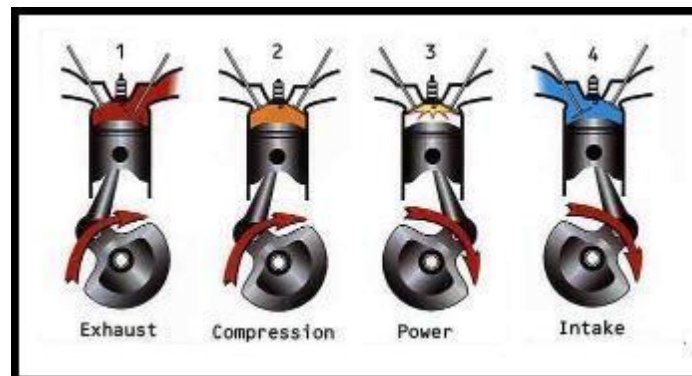
1. A thread is wound around a cylindrical bottle. What would be the locus of a point on the thread, when it is unwound?

- a. Straight line
- b. Circle
- c. Involute
- d. Helix

2. What is the use of a reheater in the thermal power plant?

- a. To increase the temperature of feed water.
- b. To increase the temperature of steam before it enters the low pressure turbine.
- c. To increase the rate of combustion of fuel during the combustion cycle.
- d. To pre-heat the air before it enters the combustion cycle.

3. Arrange the following strokes in the order in which they occur in a 4- stroke engine.



- a. 4,2,1,3
- b. 4,3,2,1
- c. 4,2,3,1
- d. 4,3,1,2

4. What is the effect on the transmitted power when there is excess tension in the belt?

- a. Transmitted power decreases
- b. Belt efficiency increases
- c. Belt wear and tear decreases
- d. Transmitted power first increases and then decreases

5. Which of the following does not affect the drag and lift forces experienced by an object placed in a fluid stream?

- a. Temperature
- b. Pressure
- c. Velocity
- d. Viscosity

6. For which of the following purposes is an agitated film evaporator suitable?

- a. For concentrating viscous liquids
- b. For concentrating non-sensitive liquids
- c. For concentrating corrosive liquids
- d. For concentrating low temperature liquids

7. Why is oil added to green molding sand?

- a. To improve its mold ability
- b. To improve the surface finish
- c. To improve its permeability
- d. To improve the sand binding

8. Which of the following statements is correct with reference to NC machines?

- a. Postprocessor is the interface between CAM systems and NC machines.
- b. Paper tapes and floppy tapes are not used as data storage devices to store all the instructions for NC machine.
- c. Only open loop systems are used in NC machine control system.
- d. Digitizers are used as data storage devices to store all the instructions for NC machine.