[Compressor 4 3 1 Download Free](#)

Roll No.

B.E / B.Tech (Full-Time) DEGREE END SEMESTER EXAMINATIONS, APR / MAY 2019

MECHANICAL ENGINEERING

Fourth Semester

ME 8402 THERMAL ENGINEERING- I

(Regulation 2012)

Time: 3 Hours   Answer ALL Questions   Max. Marks 100

PART-A (10 x 2 = 20 Marks)

1. | Define cut-off and expansion ratio in Diesel cycle.
2. | Which cycle (Otto/ Diesel/ Dual) is more efficient for same heat input?
3. | State the effect of clearance on work done in a reciprocating air compressor.
4. | Which process requires the least work to compress air for a given condition?
5. | State the function of wristpin in an IC engine.
6. | Which engine 2S / 4S has higher mechanical efficiency? Why?
7. | Define Octane rating of a fuel.
8. | What is turbocharging?
9. | Which has a higher mechanical efficiency – Gas turbine or IC engine? Why?
10. | List some materials used for gas turbine manufacture.

Part – B (5 x 16 = 80 marks)

11. An engine with 200 mm cylinder diameter and 300 mm stroke works on theoretical Diesel cycle. The initial pressure and temperature of air used are 1 bar and 27°C. The cut-off is 8% of the stroke. Determine: (i) Pressures and temperatures at all salient points. (ii) Theoretical air standard efficiency. (iii) Mean effective pressure. (iv) Power of the engine if the working cycles per minute are 300. Assume that compression ratio is 17 and working fluid is air. Consider all conditions to be ideal and draw p-v and T-s plane.   (16)

12. a)i) Broadly classify the compressors.   (4)
    ii) Briefly discuss the working of a single stage reciprocating air compressor.   (5)
    iii) Derive an expression for work done in a single stage reciprocating air compressor with clearance.   (7)

(OR)

b) What is the necessity for multistage compression? Derive an expression for optimum intermediate pressure of a multi-stage compressor with perfect intercooling. Represent the process on p-v plane. Also list the merits and demerits of multistage compression process.   (3+7+3+3)

D2 can be heavy or subtle, razor quick or gentle, clean or dirty and is happy as an insert or buss compressor.. Free Download: sixtyfive D2 by de la mancha D2 is an all-rounder free compressor with an easy to use interface for quickly dialing in some common settings.. More Details: Free Download: D2 Infinity by Frederick Alonso

1. [compressor](#)
2. [compressor types](#)
3. [compressor oil](#)

compressor

compressor, compressor online, compressor js, compressor machine, compressor oil, compressor price, compressor for sale, compressor car, compressor motor, compressor pedal, compressor types, compressor pdf, compressor stall, compressor ne demek, compressor nedir, compressor efficiency, compressor pressure ratio, compressor map [installation wc broyeur compact 45 pistol](#)

[Microsoft Office Standard 2013 For Mac](#)

Roll No. [ ][ ][ ][ ][ ][ ][ ][ ][ ]

B.E / B.Tech (Full-Time) DEGREE END SEMESTER EXAMINATIONS, APR / MAY 2019

MECHANICAL ENGINEERING

Fourth Semester

ME 8402 THERMAL ENGINEERING- I

(Regulation 2012)

Time: 3 Hours   Answer ALL Questions   Max. Marks 100

PART-A (10 x 2 = 20 Marks)

1. Define cut-off and expansion ratio in Diesel cycle.
2. Which cycle (Otto/ Diesel/ Dual) is more efficient for same heat input?
3. State the effect of clearance on work done in a reciprocating air compressor.
4. Which process requires the least work to compress air for a given condition?
5. State the function of wristpin in an IC engine.
6. Which engine 2S / 4S has higher mechanical efficiency? Why?
7. Define Octane rating of a fuel.
8. What is turbocharging?
9. Which has a higher mechanical efficiency – Gas turbine or IC engine? Why?
10. List some materials used for gas turbine manufacture.

Part – B (5 x 16 = 80 marks)

11. An engine with 200 mm cylinder diameter and 300 mm stroke works on theoretical Diesel cycle. The initial pressure and temperature of air used are 1 bar and 27°C. The cut-off is 8% of the stroke. Determine: (i) Pressures and temperatures at all salient points. (ii) Theoretical air standard efficiency. (iii) Mean effective pressure. (iv) Power of the engine if the working cycles per minute are 300. Assume that compression ratio is 17 and working fluid is air. Consider all conditions to be ideal and draw p-v and T-s plane.   (16)

12. a)i) Broadly classify the compressors.   (4)
    ii) Briefly discuss the working of a single stage reciprocating air compressor.   (5)
    iii) Derive an expression for work done in a single stage reciprocating air compressor with clearance.   (7)

(OR)

b) What is the necessity for multistage compression? Derive an expression for optimum intermediate pressure of a multi-stage compressor with perfect intercooling. Represent the process on p-v plane. Also list the merits and demerits of multistage compression process.   (3+7+3+3)

[Medieval Total War Battle Collection Patch](#)

compressor types

[Impossible Creatures Mac Download](#)
[Excel For Mac 2011 Keyboard Shortcuts](#)

compressor oil

[Kaspersky Internet Security 2011 Serial Crack Key](#)

e828bfe731 [Pedido De Amizade (2016)](#)

e828bfe731

[App That You Can Use For Texting On Mac](#)