

# BME QuestionBanks

for Semester – 1 Examination

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1. Using neat sketches explain the working of Block brake and Internal expanding shoe brake. – Module No. 11 | (7M)
2. Discuss the factors responsible for global warming and Ozone depletion – Module No. 2 | (3M)
3. What is a boiler? Compare fire tube boiler with water tube boiler. – Module No.6 | (4M)
4. Differentiate between (1) reciprocating compressor and rotary compressor. – Module No.9 | (3M) (2) boiler mountings and accessories. – Module No.6 | (4M) (3) gas constant and Universal gas constant. – Module No.3 | (4M)
5. Discuss the construction details and working of Cochran boiler with a neat sketch. – Module No.6 | (7M)
6. Derive the equation for air standard efficiency of Otto cycle. – Module No.5 | (4M)
7. Define the terms: (1) Hardness, Toughness, Ductility, Elasticity – Module No. 13 | (4M) (2) (i) Swept volume (ii) Clearance volume (iii) Stroke length – Module No. 3 | (3M)
8. Define the terms 'Refrigeration', "Ton of Refrigeration" and "Coefficient of Performance" – Module No.10 | (3M)
9. Define prime movers. Write any Four examples of the prime movers. – Module No. 1 | (3M)
10. Discuss the operational difference between Vapour compression and Vapour absorption refrigeration cycle – Module No. 10 | (3M)
11. Using neat sketch explain the working of Cone clutch and Centrifugal clutch – Module No. 11 | (7M)
12. Prove that the efficiency of the Otto cycle is greater than that of the Diesel cycle for the same compression ratio. – Module No. 5 | (4M)
13. Give a brief comparison between Belt, Chain and Gear drive – Module No. 12 | (4M)
14. What is a throttling calorimeter? Explain its limitations. – Module No. 4 | (3M)
15. What is split AC? How does it work? Explain with advantage and disadvantage. – Module No. 10 | (7M)
16. .....

17. ....

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