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12. a) As an engineer how will you calculate single payment compound amount factor ?  
Illustrate your answer with examples.

(OR)

b) Explain the various types of values in value engineering with examples.

13. a) Summarize the different types of rate of return methods in engineering decision making.

(OR)

b) Draw revenue dominated cash flow and costs dominated cash flow of your own choice and explain its uses.

14. a) Discuss economic service life of an asset and main causes of breakdown.

(OR)

b) Illustrate annual equivalent total cost with suitable examples and state its limitations.

15. a) Elucidate the different methods of calculating depreciation.

(OR)

b) On 1st Jan. 2009, a company purchased a machine costing Rs. 5,00,000. Its estimated working life is 20 years at the end of which it will fetch Rs. 20,000. Additions are made on 1 January, 2010 and 1 July, 2011 to the value of Rs. 80,000 (scrap value Rs. 4,000) and Rs. 40,000 (Scrap value Rs. 2,000) respectively. The life of both the new machines is 20 years. Show machine a/c for first four years.