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**Paper Code :DMB-305**

**Roll No.**

**BBA-13**

**3rd Year Examination, Academic Batch 2015-16**

**(A) Quantities Techniques**

**(B) Entrepreneurship & Small Business Management**

*Time : 3 Hours ]*

*[ Max. Marks : 100*

*Note. (A) Attempt any **five** questions. (B) Each question carries equal marks. (20\*5)*

**Q.1** What is the concept of Operation Research? Write a detailed note on its development

**Q.2** At a certain petrol pump, customers arrive according to a Poisson process with an average time of 6 min. between arrivals. The service time is exponentially distributed with mean time as 3 min. calculate the following:

- a) What would be the average no of customers to the petrol pump?
- b) What is the average waiting time of a car before receiving petrol?
- c) The percent of time that the petrol pump is idle.

**Q.3** A Company uses 50,000 widgets per annum which cost Rs. 10 per piece to purchase. The ordering and handling cost are Rs. 150 per order and carrying costs are 15% per annum. Find the EOQ.

Suppose the company decide to make the widgets in its own factory and installed a machine which has capacity of 2, 50,000 weighted per annum. What is the EOQ?

**Q.4** Explain the concept of Entrepreneur, Entrepreneurship and enterprise?

**Q5.** Explain the various non-financial assistance institutes for SSIs.

**Q6.** Define entrepreneur. Write the characteristics of a successful entrepreneur. What are the various stages involved in entrepreneurial process?

**Q7.** What do you mean by Industrial Sickness? What are the causes of industrial sickness? What are the remedies taken for sickness of small-scale industries?

**Q8.** Define an SSIs. What is the importance, objectives and rationale of SSIs?