

Eighth Semester B.E. Degree Examination, June/July 2016

Operations Management

Time: 3 hrs.

Max. Marks: 100

Note: Answer any FIVE full questions, selecting atleast TWO questions from each part.

PART – A

1. a. Define operation management. Draw the operations management system showing input and output model for an international airport. (06 Marks)
- b. Briefly explain how service producers differ from goods producers in important aspects of their operations. (06 Marks)
- c. With neat schematic sketch, explain the frame work for managing operations. (08 Marks)
2. a. Define decision making. Explain the frame work for decision making. (06 Marks)
- b. Two assembly robots X and Y working at the same rate together produce 400 filters per day. During a recent day, 40 filters were found defective, given that the filter is defective, there is 0.40 probability it was produced by robot X (i.e., $P_{XD} = 0.40$). What is the probability that a filter selected at random is : i) Defective ii) Produced by robot Y iii) Defective and produced by robot X iv) Defective or produced by robot X. (04 Marks)
- c. Define BEP. Briefly explain the various methods of lowering the breakeven point. (10 Marks)
3. a. Briefly explain the following : i) Time series forecasting ii) Forecasting error and tracking signal. (10 Marks)
- b. The following table gives the annual shipment (tons) of welded tube by an aluminum producer to machinery manufacturers :

Year	2004	05	06	07	08	09	10	11	12	13	2014
Shipment (tons)	2	3	6	10	8	7	12	14	14	18	19

Use the least square method to develop a linear trend equation for the data given, state the equation and forecast the shipment for 2015. (10 Marks)

4. a. Define capacity planning. Explain long-terms and short-term capacity strategies. (05 Marks)
- b. The individual component capacities (in units/day) for an assembly line that consists of five activities are shown in the figure below Fig. Q4(b). (05 Marks)

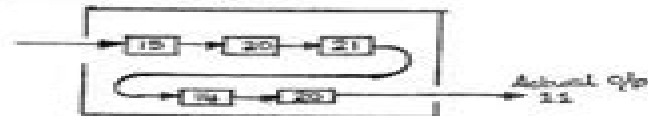


Fig. Q4(b)

- i) What is the system capacity?
- ii) What is the efficiency of the system?
- c. Annual demand for a manufacturing organization capacity is expected to be as follow :

Unit demanded	8000	10000	15000	20000
Probability	0.5	0.2	0.2	0.1

Revenues are ₹35/unit. The existing manufacturing facility has annual fixed cost/operation are ₹2 lakhs. Variable manufacturing cost are ₹7.75/unit, ₹5/unit, ₹5.33/unit & ₹7.42/unit at the 8000, 10000, 15000 and 20000 unit output level respectively. An expanded facility under consideration would require ₹2,50,000 fixed operating cost annually. Variable cost are ₹9.4/unit, ₹5.2/unit, ₹3.8/unit and ₹4.9/unit at the 8000, 10000, 15000, 20000 unit output level respectively. In order to maximize the earnings which size facility should be selected?

(10 Marks)

Mechanical Engineering 3rd Sem Question Papers

RJ Shavelson



Mechanical Engineering 3rd Sem Question Papers:

Systems in Mechanical Engineering Anup Goel, 2021-01-01 Mechanical engineering as its name suggests deals with the mechanics of operation of mechanical systems This is the branch of engineering which includes design manufacturing analysis and maintenance of mechanical systems It combines engineering physics and mathematics principles with material science to design analyse manufacture and maintain mechanical systems This book covers the field requires an understanding of core areas including thermodynamics material science manufacturing energy conversion systems power transmission systems and mechanisms This book includes basic knowledge of various mechanical systems used in day to day life My hope is that this book through its careful explanations of concepts practical examples and figures bridges the gap between knowledge and proper application of that knowledge Elements of Mechanical Engineering(GTU) Sadhu Singh, 2010 The book strictly complies with the new syllabus of Gujarat Technological University Ahmedabad for B E First year of all branches of Engineering The subject matter is presented in a graded stepwise easy to follow style Each chapter includes Multiple Choice Questions Review Questions and Exercises for easy recapitulation **B.Sc. Sem.3 & 4 and 2nd year Chemistry old question papers** PRAHSIDDH Educare, 2024-06-05 Examination conducted by Bhavnagar University like B Sc Chemistry There is a set of old question papers of semester 2 and 3 as well as second year **Engineering Mathematics: Volume II** E. Rukmangadachari, 2012 **B.Sc. Sem.1 & 2 and 1 year Chemistry old question papers** PRAHSIDDH Educare, 2024-05-28 Examination conducted by Bhavnagar University like B Sc Chemistry There is a set of old question papers of semester 1 and 2 as well as first year **Numerical Methods & Optimization** Anup Goel, 2021-01-01 Numerical method is a mathematical tool designed to solve numerical problems The implementation of a numerical method with an appropriate convergence check in a programming language is called a numerical algorithm Numerical analysis is the study of algorithms that use numerical approximation for the problems of mathematical analysis Numerical analysis naturally finds application in all fields of engineering and the physical sciences Numerical methods are used to approach the solution of the problem and the use of computer improves the accuracy of the solution and working speed Optimization is the process of finding the conditions that give the maximum or minimum value of a function For optimization purpose linear programming technique helps the management in decision making process This technique is used in almost every functional area of business This book includes flowcharts and programs for various numerical methods by using MATLAB language My hope is that this book through its careful explanations of concepts practical examples and figures bridges the gap between knowledge and proper application of that knowledge **Mechanical Engineering** ,1919 Journal of the American Society of Mechanical Engineers ,1915 **Journal of Gas Lighting and Water Supply** ,1915 *Index of Conference Proceedings Received* British Library. Lending Division, 1980 THERMEC 2011 T. Chandra, M. Ionescu, Diego Mantovani, 2012-01-03 THERMEC 2011 International Conference on PROCESSING MANUFACTURING OF ADVANCED

MATERIALS Processing Fabrication Properties Applications August 1 5 2011 Quebec City Canada The Builder ,1897
 Monthly Index of Russian Accessions Library of Congress. Processing Department,1953 *Engineering Record, Building*
Record and Sanitary Engineer ,1894 **Mechanical World and Engineering Record** ,1939 *The Mechanical World*
,1916 **Abstract Bulletin of the Institute of Paper Chemistry** ,1988-10 **Scientific American** ,1881 Monthly
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