8 Sem ME USN



10ME/PM81

#### 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

- 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. (096 Minerket) (08 Marks):
  - With neat schematic sketch, explain the frame work for managing operations.
  - Define decision making. Explain the frame work for decision making: (1996 Minurley)
    - 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<sub>ND</sub> = 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.
    - Define BEP. Briefly explain the various methods of lowering the breakeven point. (10 Marks)
- 3 Briefly explain the following: i) Time series forecasting ii) Forecasting error and tracking 48.
  - b. The following table gives the annual shipment (tons) of welded tube by an aluminum producer to machinery manufacturers:

Year	2004	0.5	06	0.7	0/8	09	10	1.1	1.2	1.3	2014
Shipment (tons)	2	3	- 6	10	- 8	7	1.2	14	14	1.8	1.9

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)

- Define capacity planning. Explain long-terms and short-term capacity strategies. (05 Marks)
  - 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)

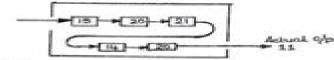


Fig. Q4(b)

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

Unit demanded	8000	10000	1.50000	200000	
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 receptively. In order to maximize the earnings which size facility should be selected?

(10 Marks):

# **Sample Question Paper Third Semester Mechanical**

Sadhu Singh

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machines At the same time industrial safety standards require better vibration isolation This book covers balancing of mechanisms torsion vibrations vibration isolation and the dynamic behaviour of drives and machine frames as complex systems Typical dynamic effects such as the gyroscopic effect damping and absorption shocks are explained using practical examples. The substantial benefit of this dynamics of machinery lies in the combination of theory and practical applications and the numerous descriptive examples based on practical data. Our 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

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Prakashan, 2021-09-01 CISCE's Modified Assessment Plan for Academic Year 2021 22 Reduced and Bifurcated Syllabus for
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held in November 2021 Goval Brothers Prakashan Operation Research Anup Goel, Ruchi Agarwal, 2021-01-01 Operations research is the fast developing branch of science which deals with the most of the engineering activities It consist of many models which are used to obtain the optimum solution for different activities Operations research is a procedure which is executed iteratively for comparing various solutions till the optimum or satisfactory solution is obtained An important aspect of the optimal design process is the formulation of the problem in a mathematical format which is acceptable to an algorithm and thus find out the optimal solution These techniques are extensively used in those engineering design problem where the emphasis is on maximising or minimising a certain goal This book is the introduction to the different techniques in operations research The subject does not require a high level of mathematical knowledge Each chapter of the book have examples from variety of fields Our hope is that this book through its careful explanations of concepts practical examples and techniques bridges the gap between knowledge and proper application of that knowledge Metal Cutting and Forming Anup Goel, 2020-12-01 Metal cutting is the process of removing unwanted material in the form of chips from a block of metal using cutting tools Metal cutting is performed on lathe machine milling machine drilling machine shaper planer and slotter Grinding is the commonly used finishing process Metal forming includes a large number of manufacturing processes in which plastic deformation property is used to change the shape and size of metal workpieces During the process for deformation purpose a tool is used which is called as die It applies stresses to the material to exceed the yield strength of the metal Due to this the metal deforms into the shape of the die Generally the stresses applied to deform the metal plastically are compressive Sheet metal working is generally associated with press machines and press working Press working is a chipless manufacturing process by which various components are produced form sheet metal **Principles of Management: A** textbook for university students Kailas Sree Chandran, 2020-01-01 This book includes all the basic topics of management required for any university It contain topics like Functions of management levels skills arts science scientific management motivation theories Theory X and Y CSR Ethics planning organisation structure decision making span of control selection process HRM leadership etc and other topics Manufacturing Technology - II Anup Goel, 2021-01-01 Manufacturing Technology II is a branch of mechanical engineering which extensively deals with the production of industrial goods with the help of advanced tools and machinery This subject gives information which covers the more practical knowledge than the theory It provides tool to enable production of manufacturing goods efficiently The subject gives idea to maximise product quality and to minimise the production cost It also gives information about the different surface finishing techniques 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 Self-Help to ICSE Super 11(10+1) Revision Papers Physics For Class 10 Sunny Chhabra, Salient Features Reduced and Bifurcated Syllabus for 1st Semester Examination Chapter wise brief summary Chapter wise MCQs Most Expected for semester 1 examination Specimen Question paper issued by the CISCE

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