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Question Paper Code : 72030

B.E./B.Tech, DEGREE EXAMINATION, APRIL/MAY 2017.

Fifth/Sixth/Eighth Semester.

Mechanical Engineering

IE 6605 — PRODUCTION PLANNING AND CONTROL

(Common to Industrial Engineering / Mechanical and Automation Engineering /
Production Engineering)

(Regulations 2013)

Time : Three hours

Maximum : 100 marks

Answer ALL questions.

PART A — (10 × 2 = 20 marks)

1. What are the needs for PPC?
2. What is meant by breakeven point?
3. Define the term Work Study.
4. What are the techniques used for work measurement?
5. State the need for Product Planning.
6. What are the steps in process planning?
7. What is Master Scheduling?
8. What is meant by Kanban system?
9. State the classification of inventory.
10. What is meant by EOQ and JIT?

PART B — (5 × 16 = 80 marks)

11. (a) Discuss in detail about the various functions of Production planning and control. (16)

Or

- (b) Explain with example the various aspects of Product development and design. (16)

12. (a) Write short notes on the following :

(i) Micro motion (8)

(ii) Memo motion study. (8)

Or

- (b) Explain briefly the following techniques of work measurements.

(i) Time study (5)

(ii) Production study (5)

(iii) Work sampling. (6)

13. (a) Explain the phrase "Extending the original product information" with suitable examples. (16)

Or

- (b) Explain the analysis of process capabilities in a multi product system. (16)

14. (a) Explain the scheduling procedure with suitable example. (16)

Or

- (b) Discuss the concepts, inputs, characteristics, working, output and benefits of MRP. (16)

15. (a) Explain the purpose of maintaining inventory in any production unit. (16)

Or

- (b) Explain ABC analysis and its significance in the inventory control with suitable examples. (16)



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Question Paper Code : 41271

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B.E./B.Tech. DEGREE EXAMINATION, APRIL/MAY 2018

Sixth/Eighth Semester

Industrial Engineering

IE6605 – PRODUCTION PLANNING AND CONTROL

(Common to : Mechanical Engineering//Mechanical and Automation Engineering/
Production Engineering

(Regulations 2013)

Time : Three Hours

Maximum : 100 Marks

Answer ALL questions

PART – A

(10×2=20 Marks)

1. Define Production Planning and Control.
2. What are the three phases of Production Planning and Control ?
3. State the objectives of work study.
4. What are the various of process planning activities ?
5. Define value analysis.
6. State the types of value.
7. What is scheduling ?
8. State the steps in Johnson's algorithm for solving sequencing problems of n jobs and 3 or 4 machines.
9. Compare excess stock and stock out situations.
10. State the advantages of ABC analysis.

PART – B

(5×13=65 Marks)

11. a) Compare between various types of productions.

(OR)

- b) What answers marketing analysis give for the proposed product ?



12. a) Write the objectives of method study.

(OR)

b) Explain multiple activity chart with a good example.

13. a) State the ten commandants of value analysis.

(OR)

b) Explain the responsibilities of a process planning engineer.

14. a) Discuss Gantt charts.

(OR)

b) Explain the various charts used in LOB.

15. a) Why do firms carry inventories ?

(OR)

b) Explain the costs associated with inventory.

PART – C

(1×15=15 Marks)

16. a) Discuss the recent trends in PPC.

(OR)

b) How will you determine minimum-cost batch size ?

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Question Paper Code : 53212

B.E./B.Tech. DEGREE EXAMINATIONS, APRIL/MAY 2019.

Sixth/Eighth Semester

Mechanical Engineering

IE 6605 — PRODUCTION PLANNING AND CONTROL

(Common to Industrial Engineering/Mechanical and Automation Engineering/
Production Engineering)

(Regulation 2013)

(Also Common to PTIE 6605 – Production Planning and Control For B.E. Part-Time
– Seventh Semester – Mechanical Engineering – Regulation 2014)

Time : Three hours

Maximum : 100 marks

Answer ALL questions.

PART A — (10 × 2 = 20 marks)

1. Define break even analysis.
2. Write the objectives of planning and control.
3. Define method study and state the three different levels in method study.
4. What is PMTS?
5. Define line balancing.
6. What is meant by machine loading?
7. What is master scheduling?
8. List any five priority sequencing rules.
9. What are the objectives of inventory control?
10. What is MRP II?

PART B — (5 × 13 = 65 marks)

11. (a) With the help of a simple flow diagram discuss in details about the functions of production planning and control. (13)

Or

- (b) Explain the procedural steps involved in product development. (13)

12. (a) State and explain in brief the steps involved in conducting the method study procedure. (13)

Or

- (b) Briefly explain about the various techniques of work measurement. (13)

13. (a) What is meant by value analysis? Explain about the various phases of value engineering. (13)

Or

- (b) What are the various steps involved in process planning? (13)

14. (a) Discuss in detail about the various factors that affect scheduling. (13)

Or

- (b) What is meant by dispatching? Enumerate and list the various functions of dispatching. Explain the various documents raised by the dispatcher. (13)

15. (a) (i) List and explain different types of costs in inventory system. (8)
(ii) What is meant by two bin inventory control system? (5)

Or

- (b) What is ABC analysis? Explain its significance in the inventory control. (13)

PART C — (1 × 15 = 15 marks)

16. (a) You own a factory and make steel furniture as and when orders are received from customers. Describe the procedure you would follow for planning and control of production in your factory.

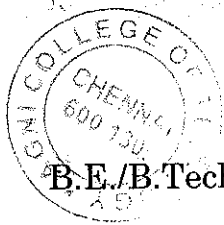
Or

- (b) Write short notes on the following :
(i) JIT
(ii) ERP
(iii) Kanban.



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Question Paper Code : 91747

B.E./B.Tech. DEGREE EXAMINATIONS, NOVEMBER/DECEMBER 2019
Sixth/Eighth Semester
Mechanical Engineering
IE 6605 – PRODUCTION PLANNING AND CONTROL
**(Common to Industrial Engineering/Mechanical and Automation Engineering/
Production Engineering)**
(Regulations 2013)
**(Also Common to PTIE 6605 – Production Planning and Control for B.E. (Part-Time)
Seventh Semester/Mechanical Engineering – Regulations – 2014)**

Time : Three Hours

Maximum : 100 Marks

Answer ALL questions.

PART – A (10×2=20 Marks)

1. List any four Eilon's techniques to improve aesthetics of a product.
2. Why the sales price of a product should not be increased to increase the profit ?
3. Define work study.
4. What is meant by Work measurement ?
5. Define product planning.
6. Mention the prerequisite information for process planning.
7. What is loading ?
8. Name the various documents raised by dispatcher.
9. What are the benefits of inventory control ?
10. What is ERP ?

PART – B (5×13=65 Marks)

11. a) Discuss the functional and operational aspects of product design with suitable examples.
(OR)
b) Explain how standardization and simplification can benefit various departments of a company.

91747



12. a) What are the steps involved in method study and explain the considerations for selecting a job for method study.

(OR)

- b) Explain about various types of allowances considered in work measurement.

13. a) What is value analysis ? Describe the basic steps involved in the value analysis.

(OR)

- b) Explain about the steps followed in process planning.

14. a) Explain about Line of Balance technique and steps to be followed in LOB technique.

(OR)

- b) Explain the working of Material Requirement Planning with a neat block diagram.

15. a) What is ABC analysis ? Explain its significance in the inventory control with suitable example.

(OR)

- b) Explain about the various elements of JIT.

PART – C

(1×15=15 Marks)

16. a) Explain the various symbols used in method study and develop a two handed process chart for assembling a bolt and nut.

(OR)

- b) A manufacturing company purchase 9000 parts of a machine for its annual requirements ordering for month usage at a time, each part costs Rs. 20. The ordering cost per order is Rs. 15 and carrying charges are 15% of the average inventory per year. You have been assigned to suggest a more economical purchase policy for the company. What advice you offer and how much would it save the company per year ?