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**FINAL EXAMINATION**

**BBA, YEAR 3 DAY & EVENING, SEMESTER: 2, AY: 2018-2019,**




**MAX. TIME: 2hrs, MAX MARKS: 50 MARKS, CREDITS: 10**

**MODULE TITLE: PRODUCTION & OPERATIONS MANAGEMENT**

**MODULE CODE: PCM 3232**

**DATE: 18<sup>TH</sup> JUNE 2019**

**INSTRUCTIONS:**

-  Write your full identification on the answer booklet provided.
-  The paper has three sections. Follow the instructions.
-  Cheating cases are seriously punished by academic regulation of UR.

**SECTION A: Choose any ONE question (10 Marks)**

**Question 1:** Use the right words to fill in the following gaps.(10 marks)

- a) ..... inventory refers to a Japanese system of minimizing waste of production costs.
- b) .....refers to the physical arrangement of plant facilities.
- c) .....is a management philosophy that seeks to focus on meeting customer needs and organizational objectives.
- d) .....refers to the key tool for business environmental scanning.
- e) Breakeven point is a point where Total costs are equal to.....

**Question 2:** Briefly explain the following terms used in Production and Operations Management. (10 marks).

- (a) Concurrent engineering
- (b) Economic order quantity
- (c) Service blueprinting
- (d) Sequential design

(e) Batch production

**SECTION B: Compulsory questions (20 Marks)**

**Question 3:** Describe five components of SIX SIGMA (5 marks)

**Question 4:** Using EOQ, show/calculate the quantity of raw materials to order when the annual demand is 800 units, cost for holding is \$0.30 per year, ordering cost is \$8 per order, and purchase per unit is \$5 (5 marks)

**Question 5:** HIGO Ltd Company is operating in Western Province with the following data (10 marks):

Details	Amount (USD)
Output in Kgs	150,000,000
Labor (worked hours)	30,000,000
Raw materials (currency)	75,000,000
Capital equipment (worked hours)	100,000,000

**Required:**

- Calculate partial labor and capital productivity figures for the HIGO Ltd.
- Compute the multifactor productivity figures for labor and capital together.
- Calculate raw material productivity figures

**SECTION C: Choose any TWO questions (20 Marks)**

**Question 6: (10 marks)**

- Graphically describe a product life cycle.
- What are the key steps undertaken in product design?

**Question 7:** What is the purpose of Material Requirement Planning (MRP)? Describe the key inputs and output of MRP. (10 marks)

**Question 8:** Outsourcing is a key function in supply chain management. Examine the need or reasons for outsourcing. (10 marks)

**Question 9:**

What is the role of scorecard in Production and Operations management? Explain four components of the score card. (10 marks)

**END**