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NATIONAL OPEN UNIVERSITY OF NIGERIA PLOT 91, CADASTRAL ZONE, NNAMDI AZIKIWE EXPRESSWAY, JABI, ABUJA FACULTY OF MANAGEMENT SCIENCES 2020_1 EXAMINATION

COURSE CODE: BUS801 CREDIT UNIT: 2

COURSE TITLE: OPERATIONS MANAGEMENT

TIME ALLOWED: 2Hours

INSTRUCTIONS: 1. Attempt question Number one (1) and any other two (2).

2. Question number 1 is compulsory and carries 30 marks, while the

other questions carry 20 marks each

3. Present all your points in coherent and orderly manner

1a. A toy manufacturer uses 64,000 rubber wheels per year for its popular dump truck series. The firm makes its own wheels which it can produce at a rate of 1,200 per day. The toy trucks are assembled uniformly over the entire year. Carrying cost for a production run of wheel is ₹55. The firm operates 320 days per year. Determine each of the following:

- (i) Optimal run size 5Marks
- (ii) Minimum total annual cost for carrying and setup 5Marks
- (iii) Cycle time for the optimal run size 5Marks
- (iv) Run time 5Marks
- 1b. Elaborate the historical evolution of Production and Operations Management. 10Marks
- 2a. Write short notes on the following terms 3Marks each = 15Marks
- i. Project Process
- ii. Job Process
- iii. Batch Process
- iv. Line Process
- v. Continuous process
- **2b.** Compare and Contrast service and manufacturing operations **5Marks**

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3a. Identify and briefly explain five basic steps in the acquisition process of raw materials.

15Marks

- **3b.** Discuss relationship between operations strategy and corporate strategy **5Marks**
- 4. Succinctly explain the five basic options available for altering production capacity. 20Marks
- **5.** Highlight three components of linear programming model and any five assumptions that are associated with these components. **20Marks**