

--	--	--	--	--	--	--	--	--	--



GIET UNIVERSITY, GUNUPUR – 765022

M. B. A (Fourth Semester) Examinations, May' 2021

**MB 401 D – MANAGEMENT OF MANUFACTURING SYSTEM**

Time: 2 hrs

Maximum: 50 Marks

**The figures in the right hand margin indicate marks.****PART – I: (Multiple Choice Questions)****(1 x 10 = 10 Marks)**Q. 1 Answer ALL questions

- a. In double sampling plan, there is a ----- per cent saving is sampling inspection as compared to single sampling plan.
- (i) 1 to 9 (ii) 10 to 17  
(iii) 18 to 24 (iv) 25 to 33
- b. Specialization of labour in manufacturing is contributed by
- (i) Adam Smith (ii) FW Harris  
(iii) William Ouchi (iv) Henry L Gantt
- c. The decision in a sequential sampling scheme is taken
- (i) after inspecting the sample as a whole (ii) after selection and inspection of items one by one  
(iii) before inspecting the sample as a whole (iv) before selection and inspection of items one by one
- d. A sequential sampling plan is
- (i) an infinite process (ii) the process requiring much more sampling units  
(iii) a process in which sampling terminates with probability one (iv) a finite process
- e. The Three major functions of business organizations
- (i) are mutually exclusive (ii) exist independently of each other  
(iii) overlap (iv) function independently of each other
- f. Walter Shewhart is listed among the important people of operations management because of his contributions to
- (i) assembly line production (ii) measuring the productivity  
(iii) Just-in-time inventory methods (iv) statistical quality control
- g. Automation version of the generic manufacturing process, where in the three manufacturing functions are replaced by the automated technologies is called
- (i) A automated materials handling system (ii) flexible manufacturing system  
(iii) computer integrated manufacturing system (iv) production planning system
- h. Which of the following is not a computerized technique for layout planning 10
- (i) CAD (ii) ALDEP  
(iii) CRAFT (iv) CORELAP
- i. WHICH type of layout is a combination of functional layout and line layout 12
- (i) cellular (ii) Group  
(iii) Product (iv) Process

- j. In which type of production system the unit cost of production is low? 17
- |                               |                            |
|-------------------------------|----------------------------|
| (i) Combined production       | (ii) Continuous production |
| (iii) intermittent production | (iv) Customer production.  |

**PART – II (A): (Short Answer Questions)**

**(2 x 5 = 10 Marks)**

Q.2. Answer ALL questions

- a. What is Manufacturing system?
- b. Explain the concept of JIT
- c. What is Push concept?
- d. What is the concept of performance?
- e. Explain the concept of FMS

**PART – III: (Long Answer Questions)**

**(6 x 5 = 30 Marks)**

Answer any **FIVE** questions.

3. Explain the concept and scope of Manufacturing Process Planning?
4. Explain various methods of Cell Formation and how do you minimise the inter cell movement?
5. Write short notes on:
  - i. Layout planning
  - ii. Cell formation
6. Explain the types of Kanban single card and two card Kanban.
7. What is Just in time system? Explain its benefits and elements.
8. Describe the Measures of performance
9. What is synchronous manufacturing? Explain various measures of performance and constraints in manufacturing system.
10. What are the components of flexible manufacturing system?

--- End of Paper ---