



7. Which of the following is phases of shop floor control? CO1-U
- (a) Order release (b) Order scheduling  
(c) Order progress (d) All of the above
8. Which is not a property of FMS (Flexible manufacturing system)? CO1-U
- (a) High accuracy (b) Less production cost  
(c) Less initial cost (d) Flexibility in production
9. What are all the effect of production planning and control CO1-U
- (a) Material factors (b)Human factors (c) Both (a) and (b) (d) Either (a) or (b)
10. An MRP system that provides feedback to the capacity plan, master CO1-U  
production schedule, and production plans is called
- (a) load report (b) closed-loop MRP (c) system nervousness (d) lot-sizing.

PART – B (5 x 2= 10 Marks)

11. Explain the main objective of CIM. CO1- U
12. Explain the CIM data transmission method CO1- U
13. Explain the group technology concept CO1- U
14. Explain the components of FMS CO1- U
15. Explain about the JIT CO1- U

PART – C (5 x 16= 80 Marks)

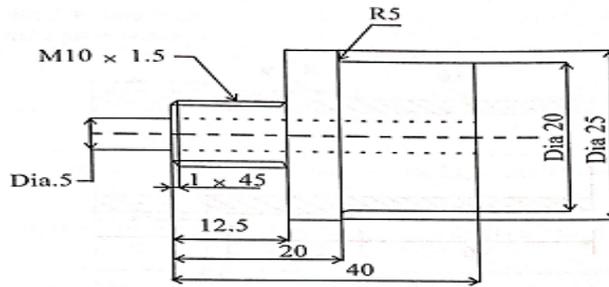
16. (a) Explain the various modeling processes in CAD CO1-U (16)  
Or  
(b) Explain the features of CAD in detail CO1-U (16)
17. (a) Explain the Seven layers of OSI Model in detail CO1-U (16)  
Or  
(b) Explain the different types of communication system in CIM CO1-U (16)
18. (a) Explain that four machines 1, 2, 3, and 4 have been identified as CO3-App (16)  
belonging in a GT machine cell. An analysis of 50 parts  
processed on these machine has been summarized in the From-To  
chart of table below. Additional information is that 50 parts enter  
the machine grouping at machine 3, 20 parts leaved after  
processing at machine1, and 30 parts leave after machine 4.  
Determine the a logical machine arrangement using Hollier

method-1

| To      | 1  | 2  | 3 | 4  |
|---------|----|----|---|----|
| From: 1 | 0  | 5  | 0 | 25 |
| 2       | 30 | 0  | 0 | 15 |
| 3       | 10 | 40 | 0 | 0  |
| 4       | 10 | 0  | 0 | 0  |

Or

- (b) Develop an Opitz code for the part design is shown in Figure. CO3-App (16)



19. (a) Explain lean production and waste in manufacturing CO1-U (16)  
 Or  
 (b) Explain computer integrated production management system CO1-U (16)
20. (a) Explain lean production and waste in manufacturing CO1-U (16)  
 Or  
 (b) Explain computer integrated production management system CO1-U (16)

