BIRLA INSTITUTE OF TECHNOLOGY, MESRA, RANCHI (END SEMESTER EXAMINATION)

CLASS: MBA BRANCH: MANAGEMENT	, SEMEST			,		SEMESTER : IV SESSION : SP/2	2022
SUBJECT: MT559 M TIME: 2 HOURS	ANUFACT	furing f	PLANNII	NG AND (CONTRO	L FULL MARKS:	50
 INSTRUCTIONS: 1. The question paper contains 5 questions each of 10 marks and total 50 marks. 2. Attempt all questions. 3. The missing data, if any, may be assumed suitably. 4. Before attempting the question paper, be sure that you have got the correct question paper. 5. Tables/Data hand book/Graph paper etc. to be supplied to the candidates in the examination hall. 							
Q.1 a. Define Flexible Manufacturing Syster	ns (FMS)	. State its	s potent	ial benefi	its.	(2+3)	
b. Discuss with an example to show ho any manufacturing system.	w flexibil	ity has b	een ope	erationali	zing into	o different levels (5)	in
Q.2 a. Define Planning. Why strategy for pro	per Plann	ning is re	quired i	n any fac	ility ope	eration. (5)	
b. Take any real-life example to explain versus manufacture to order".	the fund	amental	differen	ce betwe	en "man	ufacturing to sto (5)	ock
Q.3 a. Define Just-in-Time (JIT). Highlight a	ny situati	on to she	ow ЛТ о	concepts	to be use	ed. (2+3)	
b. Highlight the demerits of MR introducing/developing MRP-II.	P-I and	how	we hav	ve overo	come th	nese demerits (5)	by
Q.4 a. Define the Sequencing problem. Disc problem.	cuss the f	undamer	ntal assi	umptions	to perfo	orm the sequenci	ng
b. A printer has one printing press, one binding machine and a manuscript of 6 books for publication. The duration required (in days) for printing and binding the books is given below:							
Book Printing time (days) Binding time (days)	1 30 80	2 120 100	3 50 90	4 20 60	5 90 30	6 110 10	
-In what order should the book books? How much time will the printing	s be selec g and bind	ted to m	inimize Il the bo	the total	l duration	n to publish all t l? (5)	the

Q.5 Discuss the following (*any Two*)

- a. Strategic Planning for Facility Location
- b. Kanban Approach
- c. Computer Integrated Manufacturing
- d. Sequencing problem and its Managerial Significance

28/04/2022 E

(2x5=10)