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(Following Paper ID and Roll No. to be filled in your Answer Books)								
Par	per ID	: 140860 Roll No						
		в.тесн.						
	Theory Examination (Semester-VIII) 2015-16							
1	PROD	UCTION AND OPERATIONS MANAGEMENT						
Tim	e : 3 I	Hours Max. Marks: 100						
		Section-A						
1.	. Attempt all parts. All parts carry equal marks. Write answer of each part in short. (2×10=20)							
	(a)	Explain the concept of five P's.						
	(b)	What do you understand by operations strategy?						
	(c)	What is the role of standardization in product design?						
	(d)	Discuss the concept of service capacity.						
	(e)	Explain earliest start and finish times.						
	<b>(f)</b>	What are free float and independent float?						
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Attempt any five questions from this section.

(10×5=50)

What do you understand by product design? Discuss various steps involved in product design process.

a

What are different strategies for service capacity planning? Also discuss various approaches for designing service processes.

į.

(a)

3

<u>c</u> What do you mean by facility location? What are different factors involved in facility location plan-

<u>a</u> What is facility layout? Discuss different types of facility layouts.

> 3 What do you understand by operations management? Also discuss its scope.

Section-C

Note: Attempt any two questions from this section.

(15×2=30)

nual production capacity of 10,000 steel utensils and in 490 per unit respectively. The factory will have an anestimated at Rs 500 per unit, Rs 580 per unit and Rs A limited company is planning to start a new factory for spectively. The variable costs at the three locations are 8.15 million, Rs 7.377 million and Rs 7.903 million recosts at the three locations have been estimated at Rs. tions, namely, Bokaro, Jamshedpur and Bhilai. The fixed manufacturing steel utensils. It is considering three loca-

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(iii) Find the expected project completion time.

Now: (i) Draw the network.

(ii) Calculate the expected variances.

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namely plane turning, step turning and taper turning on a number of different jobs. The relevant data is tabulated

6	5	4	3	2	1	job
fi.	9	,2	5	12	3	Time for plane turning (in min)
1	3	6	4	6	8	Time for step turning (in min)
13	8	12	9	14	13	Time for taper turning (in min)

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Obtain optimal sequence of jobs as well as total elapsed

time, and idle time for the three operations.

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5. (a) What are symptoms of a bad layout? www.FirstRank com

(b) What do you understand by principles of motion economy? Discuss. (5)

(c) What are different activities involved in operations scheduling process? (5)

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