JAYPEE UNIVERSITY OF INFORMATION TECHNOLOGY, WAKNAGHAT

T3 EXAMINATION- December 2018

B.Tech Semester 6

COURSE CODE: 10B11PD611

MAX. MARKS: 35

COURSE NAME: PROJECT MANAGEMENT

COURSE CREDITS: 3

MAX. TIME: Two hrs

r-Seleshi Khenna

Note: All questions are compulsory. Carrying of mobile phone during examinations will be treated as case of unfair means.

- 1. Why is learning curve analysis important to cost estimation in project management? (5 marks)
- 2. Compare and contrast: (5 marks)
 - a. Resource loading with resource levelling.
 - b. Termination by starvation with Termination by extinction.
- 3. In preparing a budget, what indirect costs should be considered? (4 marks)
- 4. What is "slack" and why is it important? (3 Marks)
- 5. Given the following information (times are in weeks) draw the AON (6 marks)

Activity	Predecessor	Time.
A	-	3.7
В	**	
С	A	
D	A B C,D	2
E	B C,D	6
F	B	4
G	B	8
H	C	4
I	C.F	3

Also determine:

- (a) The ES, LS, EF, and LF for each activity.
- (b) The slacks on all activities.
- (c) The critical activities and path.
- 6. Draw the AOA Diagram and determine the critical path, probability of completing the project a week before project completion time for the following: (6 marks)

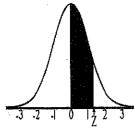
Activity	Time in weeks					
	a	m	b			
12	2	4	6			
13	6	6	6			
15	6	12	24			
23	2	5	8			
24	11	14	23			
35	8	10	12			
36	3	6	9			
56	9	15	27			
46	4	10	16			

7. The following data were obtained from a study of the times required to conduct a consumer test panel: (6 marks)

	Crasl	n Schedule	Normal Schedule		
Activity	Time	Cost (Rs.)	Time	Cost (Rs.)	
1-2	3	6	5	4	
1 - 3	1	5	5	3	
2 - 4	5	7	10	4	
3 - 4	2	6	7	4	
2 - 6	2	5	. 6	3	
4 - 6	5	9	11	6	
4 - 5	4	6	6	3	
6 - 7	1	4	5	2	
5 - 7	1	5	4	2	

Note: Costs are given in thousands of Rupees, time in weeks

- (a) Find the all-normal schedule and cost.
- (b) Find the all-crash schedule and cost.
- (c) Find the least-cost plan.



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		65X OK B.		0.02	saidhteasa	a tokok tali	weeks.			(0.000	120.09
	an aida	0	0.004	0.008	0.012	0.016	0.0199	0.0239	0.0279	0.0319	0.0359
	allia e	0.0398	0.0438	0.0478	0.0517	0.0557	0.0596	0.0636	0.0675	0.0714	0.0753
	ui (Fizika)	0.0793	0.0832	0.0871	0.091	0.0948	0.0987	0.1026	0.1064	0.1103	0.1141
	26329	0.1179	0.1217	0.1255	0.1293	0.1331	0.1368	0.1406	0.1443	0,148	0.1517
ic.		0.1554	0.1591	0.1628	0.1664	0.17	0.1736	0.1772	0.1808	0.1844	0.1879
		0.1915	0.195	0.1985	0.2019	0.2054	0.2088	0.2123	0.2157	0.219	0.2224
2	200	0.2257	0.2291	0.2324	0.2357	0.2389	0.2422	0.2454	0.2486	0.2517	0.2549
		0.258	0.2611	0.2642	0.2673	0.2704	0.2734	0.2764	0.2794	0.2823	0.2852
	46.63	0.2881	0.291	0.2939	0.2967	0.2995	0.3023	0.3051	0.3078	0.3106	0.3133
		0.3159	0.3186	0.3212	0.3238	0.3264	0.3289	0.3315	0.334	0.3365	0.3389
		0.3413		0.3461	0.3485	0.3508	0.3531	0.3554	0.3577	0.3599	0.3621
		0.3643	0.3665	0.3686	0.3708	0.3729	0.3749	0.377	0.379	0.381	0.383
		0.3849	0.3869	0.3888	0.3907	0.3925	0.3944	0.3962	0.398	0.3997	0.4015
		0.4032	0.4049	0.4066	0.4082	0.4099	0.4115	0.4131	0.4147	0.4162	0.4177
		0.4192	0.4207	0.4222	0.4236	0.4251	0.4265	0.4279	0.4292	0.4306	0.4319
	THE T	0.4332	0.4345	0.4357	0.437	0.4382	0.4394	0.4406	0.4418	0.4429	0.4441
		0.4452	0.4463	0.4474	0.4484	0.4495	0.4505	0.4515	0.4525	0.4535	0.4545
. E		0.4554		0.4573	0.4582	0.4591	0.4599	0.4608	0.4616	0.4625	0.4633
*		0.4641	0.4649	0.4656	0.4664	0.4671	0.4678	0.4686	0.4693	0.4699	0.4706
		0.4713	0.4719	0.4726	0.4732	0.4738	0.4744	0.475	0.4756	0.4761	0.4767
	7 , 11	0.4772		0.4783	0.4788	0.4793	0.4798	0.4803	0.4808	0.4812	0.4817
		0.4821	0.4826	0.483	0.4834	0.4838	0.4842	0.4846	0.485	0.4854	0.4857
		0.4861	0.4864	0.4868	0.4871	0.4875	0.4878	0.4881	0.4884	0.4887	0.489
		0.4893		0.4898	0.4901	0.4904	0.4906	0.4909	0.4911	0.4913	0.4916
		0.4918	0.492	0.4922	0.4925	0.4927	0.4929	0.4931	0.4932	0.4934	0.4936
		0.4938		0.4941	0.4943	0.4945	0.4946	0.4948	0.4949	0.4951	0.4952
		0.4953		0.4956	0.4957	0.4959	0.496	0.4961	0.4962	0.4963	0.4964
		0.4965		0.4967	0.4968	0.4969	0.497	0.4971	0.4972	0.4973	0.4974
		0.4974		0.4976	0.4977	0.4977	0.4978	0.4979	0.4979	0.498	0.4981
	20	0.4981		0.4982	0.4983	0.4984	0.4984	0.4985	0.4985	0.4986	0.4986
daily.		0.4987	0.4987	0.4987	0.4988	0.4988	0.4939	0.4989	0.4989	0.499	0.499