

JAYPEE UNIVERSITY OF INFORMATION TECHNOLOGY, WAKNAGHAT

T3 EXAMINATION- May 2019

B.Tech Semester 6

COURSE CODE: 10B11PD611

MAX. MARKS: 35

COURSE NAME: PROJECT MANAGEMENT

COURSE CREDITS: 3

MAX. TIME: 2 Hrs

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

1. a) How can you control changes and scope creep while the project is in implementation stage?
b) What are the key tools to monitor and control projects? (6 marks, CO1, CO2)
2. a) Why is estimating budget difficult in project management?
b) What is 'Student Syndrome' in project management terminology? (6 marks, CO3, CO5)
3. a) What are termination activities in project completion?
b) What are the pros and cons of adopting project style of functioning? (6 marks, CO1, CO5)
4. The Stone River Textile was inspected by OSHA and found to be in violation of a number of safety regulations. The OSHA inspectors ordered the mill to alter some existing machinery. OSHA gave the mill only 35 weeks to make the changes; if the changes were not made by then, the mill would be fined Rs. 300000. The mill determined the following activities to be done (shown in table):

Activity	Activity Predecessor	Time Estimates (Weeks)		
		a	m	b
a	-	1	2	3
b	-	2	5	8
c	-	1	3	5
d	a	4	10	22
e	a	3	7	11
f	b	11	15	25
g	c	5	9	13
h	d,e	4	3	8
i	d,e,f	2	4	6
j	d,e,f,g	2	5	8
k	h,i,j	2	2	2

Construct AOA for the same and determine the following:

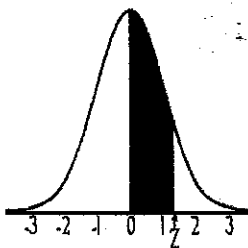
- a. Earliest, latest activity times and activity slack.
- b. Probability that the mill will be fined.

(10 marks, CO3, CO4)

5. The time-cost estimate for the various activities of a project are given below:

Activity	Predecessor Activity	Time (in weeks)		Cost (in rupees)	
		Normal	Crash	Normal	Crash
A	-	8	6	8000	10000
B	-	7	5	6000	8400
C	A	5	4	7000	8500
D	B	4	3	3000	3800
E	A	3	2	2000	2600
F	D,E	5	3	5000	8600
G	C	4	3	6000	7000

The project manager wishes to complete the project in the minimum possible time. However, he is not authorised to spend more than Rs. 5000 on crashing. Suggest the least-cost schedule for achieving the objective. (7 marks, CO3, CO4)



0	0.004	0.008	0.012	0.016	0.0199	0.0239	0.0279	0.0319	0.0359
0.0398	0.0438	0.0478	0.0517	0.0557	0.0596	0.0636	0.0675	0.0714	0.0753
0.0793	0.0832	0.0871	0.091	0.0948	0.0987	0.1026	0.1064	0.1103	0.1141
0.1179	0.1217	0.1255	0.1293	0.1331	0.1368	0.1406	0.1443	0.148	0.1517
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
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
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	0.3438	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
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
0.4554	0.4564	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
0.4772	0.4778	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	0.4896	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	0.494	0.4941	0.4943	0.4945	0.4946	0.4948	0.4949	0.4951	0.4952
0.4953	0.4955	0.4956	0.4957	0.4959	0.496	0.4961	0.4962	0.4963	0.4964
0.4965	0.4966	0.4967	0.4968	0.4969	0.497	0.4971	0.4972	0.4973	0.4974
0.4974	0.4975	0.4976	0.4977	0.4977	0.4978	0.4979	0.4979	0.498	0.4981
0.4981	0.4982	0.4982	0.4983	0.4984	0.4984	0.4984	0.4985	0.4985	0.4986
0.4987	0.4987	0.4987	0.4988	0.4988	0.4989	0.4989	0.4989	0.499	0.499