## Model Answer



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Cairo University Faculty of Computers & Information Course: Project Management Course Code: DS321

Midterm Exam Duration: 1 Hour Instructor: Dr. Doaa Saleh Date: 28/11/2021



This exam has 4 questions, for a total

Question 1. D. G.  Question 1. D. G.  Question 2. D. G.  Question 2. D. G.  Question 3. D. G.
1) Project
unique product or service
- project ends when the objectives?  are achieved or abandoned
2) Recurring Vs. Nonrecurring
* Recurring Those that typically continue to operate
Lon recurring might be those associated with charges applied once at the beginning or end  3) Normal Vs. Expedited
* Normal Those incurred in the routine process of working to complete the project according to the original planned schedule *Expedited un planned costs incurred when steps are taken to speed up the project's Completion
Question 2: You have a project to be completed in 12 months and the budget of the project is 100,000 USD. 6 months have passed and 60,000 USD has been spent, but on a closer review, you find that only 40% of the work has been completed. Find the project's Schedule Variance (SV) and determine if you are ahead of schedule or behind schedule.
Approximately planned to Finish 8.33% each month
: After 6 months BCWS = 50% 50,000 \$ 1.5
- ACWP = 60,000 \$ BCWP = 0.4 *100,000 = 40,000 \$1.
: 5V = BCWP_BCWS = 40,000_50,000 =-10,000 1.5
: Behind schedule 1.5

Ques	stion 3: C	onstruct a r	network	activity	diagram ba	sed on the fo	ollowing in	nformation:	
	Activit		sor Op	otimistic Time	Most Likely	Pessimistic Time	Expected Time	Variance	
	1			1 7/ 7	Time	6	5	0.111	
	AB			6	5	10	8	0,444	4
	C	A		6	6	6	6	0	-
	D	В		3	4	5	4	0.111	-
201	E	В	1 21 12	2	11 31	4	3 '	0.111	
	F	C,D		8	10	12	10	0.444	
	G	E		6	7	8	7	0.111	-
	Н	C,D		12	13	20	14	1.777	-
	I	F,G	3	10	12	14	12	0.444	-
	2	.00 .0	1 .02	.03		.05 .06	.07	.06 .09	7130
	0.0	.5000 504				5199 5239		5319 5359	
	0.1	.5398 .543				5596 .5636 5987 6026		5714 .5753 6103 6141	
	0.3	5793 583 6179 621				6368 6406		6480 6517	
	0.4	.6554 659				6736 6772		6844 6879	
		1000				A Charles	227 10 6		-
	0.5	6915 695	.698	5 7019	7054	7088 .7123	7157	7190 .7224	
	0.6	69.15 695 7257 729				7422 .7454	.7486	7518 .7549	7
	0.6	7257 729 7580 761	1 732 2 764	4 7357 2 7673	7 7389	7422 .7454 7734 .7764	.7486 .7794	7518 7549 7823 7852	Tiller Litter
	0.6 0.7 0.8	.7257 729 .7580 761 .7881 791	1 732 2 764 0 793	4 7357 2 7673 9 (796)	7 7389 3 7704 7 7995	7422 .7454 7734 .7764 8023 .8051	.7486 .7794 .8078	7518 7549 7823 7852 8106 8133	Line
	0.6	7257 729 7580 761	732 2 764 0 793 6 821	4 7357 2 7673 9 7967 2 8238	7 7389 3 7704 7 7995 8 8264	7422 .7454 7734 .7764	.7486 .7794	7518 7549 7823 7852	inter-
	0.6 0.7 0.8 0.9	.7257 .729 .7580 .761 .7881 .791 .8159 .818	732 2 764 0 793 6 821	4 7357 2 7673 9 7967 2 8238	7 7389 3 7704 7 7995 8 8264 5 8508	7422 .7454 7734 .7764 8023 .8051 8289 .8315	.7486 .7794 .8078 .8340	7518 7549 7823 7852 8106 8133 8365 8389 8599 8621	ind
(+1e	0.6 0.7 0.8 0.9	.7257 .729 .7580 .761 .7881 .791 .8159 .818	732 2 764 0 793 6 821	4 7357 2 7673 9 7967 2 8238	7 7389 3 7704 7 7995 8 8264 5 8508	7422 .7454 7734 .7764 8023 .8051 8289 .8315 6531 .8554	.7486 .7794 .8078 .8340 .8577	7518 7549 7823 7852 8106 8133 8365 8389 8599 8621	ind

Course: Introduction to DS & Systems Course Code: DS211

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Question 4: The management of a company is interested in crashing of the following project by spending an additional amount not exceeding Rs. 2,000. Suggest how this can be accomplished.

Activity		THE RESERVE TO SERVE THE PARTY OF THE PARTY		Cras	hed	CAN MARKET MARKET	
A SKIN		Duration	Cost	Duration	Cost	Cost per day	
В	Δ	7	15000	6	18000	3,000	
D	Α	12	11000	9	14000	1,000	
	В	22	18500	21	19000	500	
D		11	8000	10	9000	1,000	
E	C, D	6	4000	5	4500	500	

(A) (B) (C)	paths:
0 2	A_B_D_E_36 * A_C_E = 35
Crash activity E 2	then Dor B
For not exceeding the	avoilable budget
2 resulting in Finishing	the project in 34 days.
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Lasjon, all gailely non de	NEADI bazza