

KIIT Deemed to be University Online Mid Semester Examination(Spring Semester-2021)

Subject Name & Code: SPM- IT4027 Courses: Btech 6th sem Applicable to

Full Marks=20 Time:1 Hour

SECTION-A(Answer All Questions. All questions carry 2 Marks)

Time:20 Minutes (5×2=10 Marks)

Question No	Question Type(MCQ/SA T)	Question	Answer Key(if MCQ)	CO Mapping
Q.No:1(a)	1.What can be considered as a project? a.Routine tasks are involved b.Work is carried out in several phases c.No specific objective d.Work done for an individual	Question -1 on concept 1	b	1
	2.Project management is: a.Planning about the project b.Organising the project c.Directing the project d.Controlling the project e.All of the above	Question -2 on concept 1	е	1
	3.Taking action to remedy hold ups is: a.Organizing b.Controlling c.Monitoring d.Planning	Question -3 on concept 1	b	1
	4. What are the three corners of a project triangle which can be adjusted to which can be adjusted for meeting the objectives? a. Cost, time, effort	Question -4 on concept 1	С	1

	1 0		I	
	b. Resource,			
	time, cost			
	c. Scope, time, cost			
	d. Cost, time			
	resource			
Q.No:1(b)	The first step	Question -1 on concept 2	d	1
	in Project	_		
	planning is to			
	praining 15 to			
	a. determine			
	the project			
	constraints			
	b. determine			
	the budget			
	c. select a team			
	organization			
	mode1			
	d.establish			
	the objectives			
	and scope			
	Arrange the	Question -2 on concept 2	b	1
	following steps to	- constitution - constitution		_
	form a			
	basic/general			
	Engineering Process Model.			
	i. Test			
	ii. Design			
	iii. Install			
	iv. Specification			
	v. Development			
	vi. Maintain			
	a. 2, 4, 5, 1, 6, 3			
	b. 4, 2, 5, 1, 3, 6			
	c. 2, 4, 5, 1, 3, 6			
	d. 4, 2, 5, 1, 6, 3			
	3. PRINCE II is	Question -3 on concept 2	d	1
	a. A framework			
	for project planning			
	b. A set of			
	project			
	management			
	standard			
	c. Structured			
	project			
	management method			
	d. All the above			
	You can identify	Question -4 on concept 2	c	1
	high level project			

			1	
	risk in which			
	stage of Step			
	Wise Project			
	Planning:			
	a. Identify			
	Project Scope			
	and Objectives			
	b. Identify			
	Activity Risks			
	c. Analyze			
	project			
	characteristics			
	d. Identify			
	Project products			
	and activities			
Q.No:1(c)	_Which of the	Question -1 on concept 3	b	2
Q.No.1(c)		Question -1 on concept 3	D	_
	following			
	statements is not			
	true for ROI			
	a. Return of			
	Investment is a			
	ratio between net			
	income and			
	investment.			
	b. Return of			
	Investment com			
	pares the total			
	annual profit			
	against the total			
	investment			
	c. Return of			
	Investment com			
	pares the average			
	annual profit			
	against the total			
	investment			
	d. A high ROI			
	means the			
	investment's			
	gains compare			
	favourably to its			
	cost.	0 1		
	Which of the	Question -2 on concept 3	c	2
	following			
	activities is not			
	part of			
	feasibility study/			
	business case			
	a. Cost benefit			
	analysis			
	b. Risk			
	assessment			
	c. Requirement			
	gathering and			
	specification			
	d. Organizational			
	and operational			
	infrastructure			
·			•	•

			1	
	Q1) Project management is not about a)Scope Management b)Document Management c)Time Management and Risk Management d)Cost Management	Question -3 on concept 3	b	
	Management Project Controlling can be done with a)Programming Skills b)Drawing Skills c)Earned Value Management Techniques d)All of these	Question -4 on concept 3	С	2
Q.No:1(d)	Which model is an extension for waterfall model? A.Iterative waterfall model B.Prototype model C.V model D.Incremental model	Question -1 on concept 4	С	1
	Which one from below is a Atern/DSDM principle? A.Time boxing B.Deliver quickly C.Negotiate Business need not required	Question -2 on concept 4	a	1
	If schedule is tight for a project which approach you should use? A.Prototype B.Evolutionary C.Once shot D.Iterative	Question -3 on concept 4	b	1
	Which one is not the Limitations of extreme programming a.Reuse of existing codes b.Reliance on availability of	Question -4 on concept 4	c	1

	high quality developers c.Not meeting the deadline d.Dependence on personal knowledge	Overtime to a second 7		
Q.No:1(e)	Which one of the following is not the principle of Atern/DSDM a.Proper documentation b.On time delivery c.Build incrementally d. Deliver iteratively	Question -1 on concept 5	a	2
	In which approach, the project can be put aside temporarily for some time a.Agile b.Prototyping c.Evolutionary D. Incremental	Question -2 on concept 5	d	2
	Which one of the following approach accounts for limited scope for iteration a.Evolutionary b.Waterfall c.Incremental d.Prototyping	Question -3 on concept 5	b	2
	RAD and JAD are features of which model a.Incremental b.Prototyping c. Agile d.Evolutionary	Question -4 on concept 5	c	2

SECTION-B(Answer Any One Question. Each Question carries 10 Marks)

<u>Time: 30 Minutes</u> (1×10=10 Marks)

Question No	<u>Question</u>	<u>CO</u> <u>Mapping</u>
Q.No:2	1. a) Calculate return of investment, payback period and net profit for the below project. Year Project	1

	0 -220,000	
	1 50,000	
	2 50,000	
	3 30,000	
	4 75,000	
	5 100,000	
	5 100,000	
	b) Explain how the	
	interpretation of ROI	
	may not be sufficient for	
	cost benefit analysis.	
	c) In this project,	
	calculate the NPV (Net	
	Present Value)	
	considering the discount	
	factor as 10%. and 12%	
Q.No:3	1. a) Calculate return of	1
<u> </u>	investment, payback	-
	period and net profit for	
	the below project.	
	Year Project	
	0 -2,50,000	
	1 30,000	
	2 50,000	
	3 20,000	
	4 60,000	
	5 120,000	
	,	
	b) Explain how the	
	interpretation of ROI	
	may not be sufficient for	
	cost benefit analysis.	
	c) In this project,	
	calculate the NPV (Net	
	Present Value)	
	considering the discount	
	factor as 8%. and 13%	
Q.No:4	1. a) Calculate return of	1
	investment, payback	
	period and net profit for	
	the below project.	
	Year Project	
	0 -300,000	
	1 60,000	
	2 65,000	
	3 55,000	
	4 90,000	
	5 90,000	
	b) Explain how the	
	interpretation of ROI	
	may not be sufficient for	
	cost benefit analysis.	
	cost beliefft affaiysis.	
	a) In this project	
	c) In this project,	
	calculate the NPV (Net	

	D	
	Present Value)	
Q.No:5	considering the discount factor as 14%. and 18% A final year degree student is to build an application that will act as a 'suggestions box' in a factory. The application will allow employees to make suggestions about process improvements, and will track the subsequent progress of the suggestion as it is evaluated. The student wants to use a web-based front-end with a conventional database. The student has not previously developed any applications using this mix of technologies. Suggest a suitable life cycle model to the student for the software development. Explain why you chose a particular model for this application along with listing out its characteristics,	2
	characteristics, advantages and disadvantages. Explain the model with suitable diagrams. Would you prefer an OTS for the same. Explain your answer.	
Q.No:6	2.Being a project manager, which SDLC model will you follow to develop the following applications: a)A software to connect control room computers to satellite. Assume that the team does not have any prior experience in developing communication software. b)A payment gateway application for online payments.	2

	Explain why you chose a	
	particular model for that	
	application along with	
	listing out its	
	characteristics,	
	advantages and	
	disadvantages. Explain	
	the models with suitable	
	diagrams.	
Q. No:7	In what circumstances	2
	the evolutionary model	
	will be preferred over	
	prototyping model. Give	
	a suitable example.	
	Explain both the models	
	with suitable diagrams.	
	List out the	
	characteristics feature,	
	advantages and	
	disadvantages of both	
	the models.	

Controller of Examinations