

<u>KIIT Deemed to be University</u> <u>Online End Semester Examination(Spring Semester-2021)</u>

<u>Subject Name & Code:</u> SPM(IT-3032) <u>Applicable to Courses:B.tech</u> <u>CSE/IT</u>

<u>Full Marks=50</u> <u>Time:2 Hours</u>

SECTION-A(Answer All Questions. Each question carries 2 Marks)

Time:30 Minutes

(7×2=14 Marks)

Question No	Question Type (MCQ/SAT)	<u>Question</u>	CO Mapping	Answer Key (For MCQ Questions only)
Q.No:1	MCQ	Q1:Many organizations are now using enterprise or project management software to help manage projects. A,path B.portfolio C.institute D.office	CO1	KEY:B
	MCQ	Q2. Benefits of management might include: A. Mandatory requirement B.Improved quality of service C.Increased productivity D. All of the above	CO1	KEY:D
	MCQ	Q3. Which below is not a software project characteristics. A. Flexibility B. Conformity C. Portability D. Complexity	CO1	KEY:C
		Q4. Full form of IRR is A. Investment revise return B. Innovative rate of	CO1	KEY:D

		return C. Investment Rate of Revise		
		D. Investment rate of return		
Q.No:2	MCQ	Q1: Which model is used to project risk factor A. Waterfall model B. Spiral Model C. Prototyping Model D.None of these	CO2	KEY:B
	MCQ	Q2:Which one of the following models is not suitable for accommodating any change? A. Build & Fix Model B. Prototyping Model C. RAD Model D.Waterfall Model	CO2	KEY:D
	MCQ	Q3:What is the major drawback of using RAD Model? A. Highly specialized & skilled developers/ Designers are required. B. Increases reusability of components C. Encourages customer/client feedback D. Increases reusability of components, Highly specialized & skilled developers/designers are required	CO2	KEY:D
	MCQ	Q4: Which activity is undertaken once the development activities start? A.Project Planning B.Project Monitoring and Control C.Project size estimation D.Project cost estimation	CO2	KEY:B
Q.No:3	MCQ	Q1:Which of the following technique overcomes drawback related to LOC? A.Project Planning Sheet B.Function Point Metric C.COCOMO D.COCOMO2	CO3	КЕҮ: В
	MCQ	Q2:Which of the following	CO3	KEY:D

		serves as project estimation technique? A.Empirical estimation B.Heuristic technique C.Analytical estimation D.All of the above		
	<u>MCQ</u>	Q3:Lines of Code measures the size of project by counting A.the number of source instructions B.the comments in the code C.the header lines D.All of the above	CO3	KEY:A
	MCQ	Q4:"Larger code size does not necessarily mean better quality or higher efficiency." A.True B.False C.NA D.NA	CO3	KEY:A
Q.No:4	MCQ	Q1: If an activity on the critical path takes longer than expected, then: A. Activities not on the critical path will have reduced slack B. Activities not on the critical path will have additional slack C. Activities on the critical path will start showing slack D. The project is doomed	CO4	KEY:B
	MCQ	Q2:Project management is not about A. Scope management B. Cost management C. Document management D. Time management	CO4	KEY:C

	MCQ	Q3:The PERT technique gives most weightage to: A. the most likely estimate obtained B. the most optimistic estimate obtained C. all the estimates obtained have equal weights D. the most pessimistic estimate obtained	CO4	KEY:A
	MCQ	Q4: A determination of economic feasibility of the project always requires a thorough A. Cost/benefit analysis B. Work breakdown structure (WBS) C. System scope document D. Proof of concept prototype	CO4	KEY:A
Q.No:5	MCQ	Q1.Cross-functional teams are A. Temporary B. Permanent C. Neither Temporary nor Permanent D. Either Temporary or Permanent	CO ₅	KEY:A
	<u>MCQ</u>	Q2:Which one not belongs to develop a team . A. Forming B. Storming C. Counselling D. Adjourning	CO ₅	KEY:C
	<u>MCQ</u>	Q3. Department structure should involve A. Functional Format B. Project Format C. Matrix Format D. All of the above	CO ₅	KEY:D
	<u>MCQ</u>	Q4.Good project management should lead to: A. Reasonable estimates of effort B.Good project control leading fewer unexpected	CO ₅	KEY:D

Q.No:6	MCQ	crises C.Making clear what is expected of each team member D. All of the above Q1:Possible strategies for dealing with risk are A. Accept, Mitigate,	CO6	KEY:B
		Evade, Transfer B. Avoid, Transfer, Accept, Mitigate C. Evade, Receive, Transfer, Avoid D. Mitigate, Avoid, Evade, Transfer		
	MCQ	Q2:Which of these is not a source of Risk A. Political Risk B. Environmental Risk C. Functional Risk D. Technology Risk	CO6	KEY:C
	MCQ	Q3: Which risk is the really want of Building an excellent product or system. A. Business B. Schedule C. Technical D. Performance	CO6	KEY:A
	MCQ	Q4:Let four risks named R1, R2, R3 and R4 have been identified with probabilities of occurrences of 0.1, 0.02, 0.03 and 0.4 respectively. The likely damages of above risks are 80,000, 70,000, 100,000 and 60,000 respectively. Which risk has the highest risk exposure? A. R1 B. R2 C. R3 D. R4	CO6	KEY;D
Q.No:7	MCQ	Q1:what are software quality attributes? A.Faster & Reliable B.Cheaper & Reliable C.Cheaper & faster D.All of the above	Co6	KEY: A

MC	correction comple criticality, the risl uncertainty has for increasing order of expenses: A. Coding, requirement, mainted B. Maintenance, requirement gath C. Requirement gath Coding, maintenant D. Coding, maintenant Requirement gath	exity and c & collowing of uirement enance coding ering eathering, nce ntenance, nering	KEY:C
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Time: 1 Hour and 30 Minutes

Mapping (Each question should he from the same CO(s))	Question	Question	CO
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Q.No:9 Q1.(a)What is Herzberg's two factor theory of CO5			
team as a whole? [6 marks]	Q.No:9	motivation? How does it contribute to an individual and	CO ₅

	T		
	(b)What is Vroom's expectancy theory of motivation? Does it cater to the development velocity? Justify.[6 marks] Q2.(a)What is mixed control team structure in software development? How does it influence the large project progress?Explain with an example.[6 marks]		
	(b) What is a cross functional team? How does it impel the software development? Explain with a suitable example.[6 marks]		
	Q3.Contract Management has been one of the most important activity in Software Project Management. Give examples of different situations where each of the contract type is found to be suitable. Justify the same.[12 marks]		
Q.No:10	Q1.What is software quality? What are different software quality standards? How to ensure product quality & process quality?[4+4+4 marks]	CO6	
	Q2. Summarize any 4 types of testing with details.[12 marks] Q3. What is meant by software configuration management? Explain the two principal activities of configuration management. [4+8 marks]		
Q.No:11	Q1. Explain critical path.Solve the given problem to calculate the critical path and slack time for the each activity.[2+6+4 marks]	CO4	
	Start B E F inish 3 1 3		
	Q2. Product manager has planned a list of activities culminating in the inaugurate launch of the new products.		

Ac	Activity		time estimat	es days	Immediate Predecessor (s)
		P	M	0	
	a	20	10	5	-
1 0	ь	12	7	5	-
6	c	12	10	8	a
	d ·	40	20	6	c
	e	90	60	30	d
1	f	14	10	7	d
1 :	g	50	30	20	c
1	h	12	10	8	e, f, g
] i		6	4	3	ь
j j		1	1	1	h,i

What is the probability that product manager will be able to complete the language launch within 80 days-time?[12 marks]

Q3.A new project has 'average' novelty for the software supplier that is going to execute it and thus given a nominal rating on this account for precedentedness. Development flexibility is high, requirements may change radically and so risk resolution exponent is rated very low. The development team are all located in the same office and this leads to team cohesion being rated as vey high, but the software house as a whole tends to be very informal in its standards and procedures and the process maturity driver has therefore been given a rating of 'low'.

FACTOR	RATING	VALUE
PREC	nominal	3.70
FLEX	high	2.02
RESL	Very low	7.05
TEAM	Very	1.10
	high	
PMAT	low	6.22

- (i) What would be the scale factor (sf) in this case? [6 marks]
- (ii) What would the estimate effort if the size of the application was estimated as in the region of 4000 lines of code?[6 marks]