Total No.	of Qu	estions: 5]	20		SEAT	No. :		
P3345		[6027]-22	(4027) 22		[	[Total No. of Pag		ges : 5
		F.Y.M.C.A. (Manager	i mer	ıt Fa	culty)			
	IT	-22 : SOFTWARE PROJEC			•	ME	NT	
		(2020 Pattern) (Sei						
		(2020, 200, 201, 201, 201, 201, 201, 201,		3001				
Time: 21/2							Max. Marks : .	50
		the candidates:						
1) 2)		estions are compulsory. near u beled diagrams wherever ned	0000	71*1)				
3)		lator is allowed.	, Cosu	u y.				
,	5	200				3		
01\ M	.14!1	CIVe: Oti				5	[20, 1/ 1/	<b>.</b>
	_	Choice Questions.					$[20 \times \frac{1}{2} = 10]$	J
a)	CQ	COMO stands for.	••>	~	2	_		
	1)	Composition Cost Model	11)	~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~			ol Model	
	Viii)	Constructive Cost Model	iv)	Con	sumed	Cost	Model	
			$^{\prime}$					
b)	Del	phi method is used for	6					
	i)	Judgemental forecast	ĭi)	Tim	ne series	fore	cast	
	iii)	Associative model	iv)	All	are the o	correc	ct	
		200						5
c)	Abb	previation of the term SRS					• _(	),V
	i)	Software Resource System						۲
	ii)	Software Requirement Synops	is					
	iii)	Software Requirement Syllabu	.S			1		
	iv)	Software Requirement Specific	catio	on			0.	
						0		
d)	Wh	ich is a software configuration 1	man	agem	ent con	cept t	that helps us	to
,		trol change without seriously imp				\ #	-	
	i)	Baselines		(2)	(5)			
	ii)	Source code		5	30			
	iii)	Data model		7 (	7			

iv) None of the mentioned

e)	Wh	ich of the following option is u	sed to	measure the size of a user story
	for	an Agile project?		
	i)	Story points	ii)	Function points
	iii)	Velocity points	iv)	Work breakdown points
				-
f)	Wh	ich of the following is not a S	Softw	are Configuration Management
,		ivity?		
	i)	Configuration item identificati	on	
	ii)	Risk management		
	iii)	Release management		
	iv)	Branch management		
	_			290
g)	The	project life cycle consists of _		
	i)	Understanding the scope of the	he pr	oject 👸
	ii)	Objectives of the project		
	iii)	Formulation and planning var	ious a	activities
	iv)	All are Correct	^	
7	>,			:?
h)	Fol	lowing is (are) the components	(s) of	risk management
	i)	Risk Assessment	iiQ	Risk Control
	iii)	Risk Ranking	(iv)	All are Correct
		200	//	
i)	MS	Project is a project managem	ent s	oftware program developed and
		l by		
	i)	Sun Microsystems	ii)	Microsoft
	iii)	Google	iv)	Amazon
j)		is not an agile method		
	i)	Waterfall	ii)	Crystal
	iii)	Scrum	iv)	Extreme Programming
k)	Wh	ich command creates an em	pty g	git repository in the specified
	dire	ectory?		
	i)	gitinit	ii)	gitlog
	iii)	git reset	iv)	none of the above
				5 20
1)	Hov	w much time does each iteration		- / /
	i)	1-2 weeks	ii)	2-3 weeks
	iii)	1-4 weeks	iv) <sub>C</sub>	1-2 months
			/	

			9			
m)	Wh	hich one of the following can help you in creating a Schedule for the				
	proj	project even with the provided constraints?				
	i)	MS Word	ii)	MS Excel		
	iii)	MS Project	iv)	MS PowerPoint		
		V.5.				
n)	CM	M stands for				
	i)	Capability Movement Model				
	ii)	Construction Maturity Model				
	iii)	Capability Maturity Model				
	iv)	Constructive Maturity Model				
o)	The	working culture of an agile tea		200		
	i)	Collective	ii)	Collaborative		
	iii)	Connective	iv)	Contemplative		
,	<b>~</b> :-					
p)	Git					
	i)\\	Localized version control sys	A ~			
1	ii)	Distributed version control sy				
	iii)	Centralized version control sy None of the above	stem			
	iv)	None of the above	2			
a)	In R	lisk management process what	make	es a note of all possible risks that		
q)	In Risk management process what makes a note of all possible risks that may occur in the project?					
	i)	Identification	ii)	Categorize		
	iii)	Manage	iv)	Monitor		
	ш)	Widnage	11)	Wiomto		
r)	Function Point Analysis (FPA) count is developed by					
-/	i)	Bary Bohem &	ii)	Alan Albrecht		
	iii)	Pressman	iv)	None of the above		
		8.		\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\		
s)	Wh	ich of the following is not the le	evel c	of CMM?		
	i)	Defined	ii)	Analysis		
	iii)	Managed	iv)	Optimizing		
t)	Sel	ect the option that suits th	ie M	famifesto for Agile Software		
	Dev	relopment:				
	i)	Working software	ii)	Individuals and Interactions		
	iii)	Customer collaboration	iv)	All of the above		
	ш)	Customer Conductation	11)	a sal of the above		
				O		
			~ V			

Q2) 3	a)		te Risk Management Process by considering any poss w.r.t. Risk Identification, Risk Analysis and Risk				
		acro	ss w.r.t. Kisk identification, Kisk Analysis and Kisk	. Willigation.	լսյ		
1	b)	Exp	lain use of MS Project to track agile project progre	SS.	[4]		
	- /	r	OR				
ć	a)	Con	sider a project with the following functional units.		[6]		
			i) Number of User Inputs =	15			
			ii) Number of User Outputs =	21			
			iii) Number of User Enquires =	10			
			iv) Number of User Files =	15			
			Number of External Interfaces =	19			
		In a	ddition to above, system requires significant				
		,	Data Communication (05)				
		(	Performance is very Critical (03)				
		X	Designed Code may be Moderately Reusable (04)				
			Complex Processing (04)				
			er Complexity factors are treated as Average.				
		Con	npute the functional point for the project				
_		_					
ŀ	b)	Exp	lain the benefits of agile project management in brie	f.	[4]		
0.0							
<b>Q3</b> ) a	ı)		ew project with estimated 325 KLOC system has				
			the development of the project following things als		[6]		
		i)	Volatility of the virtual machine environment is low Product Complexity is High (1.15)	(0.87)			
		ii)	Virtual machine experience is high (1.07)		,		
		<ul><li>iii) Virtual machine experience is high (1.07)</li><li>iv) Complexity of the product is Extra High (0.90)</li></ul>					
		v)	Use of software tools is very high (0.83)	, <u> </u>			
		vi)	Remaining all drivers are treated as Nominal.				
(	Calc	culate	:	5,			
		1)	Effort				
		2)	Development time				
		3)	Average staff size				
		4)	Productivity of the product				
			6.				
1	b)	Exp	Use of software tools is very high (0.83) Remaining all drivers are treated as Nominal.  Effort Development time Average staff size Productivity of the product  lain Agile Manifesto in detail.  OR		[4]		
			OR OR				
[602]	7]-2	22	4				

	a)	"Splendid Holidays", one of the distinguished service providers of	
		International and Domestic Tour & Travel. Due to their reliable and	
		flexible services, they have earned a large number of customers across	
		the nation. They want to upgrade their ERP softwere. As a product owner	
		you have to identify all possible epic, Features and User Stories for the	
		same. [6]	
	b)	Differentiate Agile project management v/s Traditional project	
		management. [4]	
<i>Q4</i> )	a)	Explain the roles of scrum master, product owner and development team.	
۷.)	u)	[6]	
	b)	Write a short note on GitHub. [4]	
	U)		
		OR	
	a)	Demonstrate value-driven development with suitable example. [6]	
	b)	"Team management drives productivity by getting employees to work	
	1	better". Justify. [4]	
<b>Q</b> 5)	a)	Explain the process to plan and execute iteration in agile with suitable	
		example. [6]	
	b)	Highlight upon Project Management Process. [4]	
		OR	
	a)	Explain the process of Retrospective, Making Team Decisions and Clos	)
		ing out Retrospective. [6]	
	b)	"CMM strives to assist organizations in improving the quality of their	
	<i>-</i>		
		[4]	
		· 5.	
		* * *	
		** ** **	
		software development through implementation of processes". Comment.  [4]	
		6.	