- b.	A proje	ct has the followin	g characte	eristi	CS			12	2	1
	<b>rj</b> -		Activity	_	$T_p$	$T_m$				
			1-2	1	5	1.5				
			2-3	1	3	2				
			2-4	1	5	3				
			3-5	3	5	4				
			4-5	2	5	3				
			4-6	3	4	5				
			5-7	4	7	5				
			6-7	6	6	7				
			7-8	2	8	4				
			7-9	5	6	6				
			8-10	1	3	2				
	W.		9-10	3	7	5				
	(i)	Construct the ne	twork and	fine	d the	criti	cal path			
	(ii)	Find the duration								
	(iii)	Find the varianc	-							
30. a.	Elaborat		nt principl	es i	invol	ved	in managing risks in IT	12	2	3
			(OR)							
b.	_	ut the different t ment project.	esting ph	ases	tha	t are	e executed in a software	12	2	3
31. a.	_	the various princi	ples of ag	ile n	neth	odolo	ogy and briefly discuss its	12	-1	4
			(OR)							
b.	_	the regular and ion management.	` ,	è c	ycle	metl	hods applied in software	12	2	4
32. a.	Define S	SCRUM. Discuss i	ts method	olog	ies e	mplo	oyed in it projects.	12	2	5
			(OR)							
b.		e the life cycle ap dvantages.		DE	V O	PS a	and discuss its advantages	12	2	5
				-11-	444 484	-1-				

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Reg. No.	Reg. No.						
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## **B.Tech. DEGREE EXAMINATION, JUNE 2023**

Seventh Semester

## 18MBH464J - IT PROJECT MANAGEMENT

	(For the candidates admitted from the academic year 2018-2019 to 2	021-2022)
Note:	teller (d)	
(i)	<b>Part - A</b> should be answered in OMR sheet within first 40 minutes and O over to hall invigilator at the end of 40 <sup>th</sup> minute.	MR sheet should be handed
(ii)	Part - B & Part - C should be answered in answer booklet.	
Time: 3	hours	Max. Marks: 100
	$PART - A (20 \times 1 = 20 Marks)$	Marks BL CO
	Answer ALL Questions	
1.	What is software engineering?	1 1 1
	(A) Designing a software (B) Testing a software	

2.	Wha	at are the feature o	f software code?		1	1
	(A)	Simplicity	(B)	Accessibility		

3. CASE stands for \_\_\_\_\_\_\_ (A) Computer-aided software (B) Control aided science and engineering engineering

(D) Reliability

(C) Cost aided system experiments (D) Cost appreciation standard engineering

4. The activity that distributed estimates effort across the planned project duration by allocating the effort to specific software developing tasks is

duration by allocating the effort to specific software developing tasks is

(A) Project scheduling(B) Detailed schedule(C) Macroscopic schedule(D) Project planning

(C) Application of engineering (D) Data analytics

principles to the design

software

(C) Modularity

5. Which of the options is not a notable challenge while scheduling a project?

(A) Deadlines

(B) Independent activities

(C) Too many workers may be (D) Costly delay required

6. What is the earliest start time rule?

(A) It compares the activity's (B) It compares the activity's end starting time for an activity time for an activity predecessor successor

(C) It directs when a project can (D) It regulates when a project must start begin

7.		at is critical path?			1	1	2
	(A)	It is a path that operates from	(B)	It is a mixture of all the paths			
		the starting node to the end					
		node					
	(C)	It is the longest path	(D)	It is the shortest path			
_							
8.		ivity in a network diagram is repr		•	1	2	2
	, ,	Rectangles	` /	Arrows			
	(C)	Squares	(D)	Circles			
0	D: 1	6.4				2	1
9.		management is one of the most		· ·	1	2	3
		Client	` '	Investor			
	(C)	Production team	(D)	Project manager			
10	W/h	at accesses the rick and your plan	s for	righ mitigation and ravigag these	1	2.	3
IV.		in you learn more about the risk?	S 101	risk mitigation and revises these	•		5
		Risk monitoring	(D)	Risk planning			
	` '	Risk analysis		Risk identification			
	(0)	Nisk allarysis	(D)	Nisk Identification			
11.	One	of the following factors affect th	e nro	hable consequences	1	3	3
		Risk timing		Contingency planning			
		Risk avoidance		Risk monitoring			
	(0)		(D)	Tion monitoring			
12.		model is used to project	ct risl	k factor.	1	3	3
	(A)	Prototyping model		Waterfall model			
	(C)		` '	Icon model			
		_	` '				
13.	Agil	le software development is based	on		1	3	4
	(A)	Incremental development	(B)	Interactive development			
	(C)	Linear development	(D)	Both incremental and iterative			
				development			
			=			_	
14.		ongst which of the following is/ar			1	3	4
	. ,	SCRUM	, ,	FDD			
	(C)	DSDM	(D)	SCRUM, FDD and DSDM			
15	The	ro oro			1	3	4
15.		re arephases in scru Five		Love	1	J	7
	. ,	Three	` /	Four Six			
	(C)	Timee	(D)	Şix			
16	Whi	ch of the following does not appl	v to a	agility to a coffware process?	1	1	4
				Only essential work products		_	
	(1.7)	delivery strategy	(D)	are produced			
	(C)	Eliminate the use of project	(D)	±			
	(0)	planning and testing	(D)	1 Tojoct Scheduling			
		rg unto trotting					
17.	Whi	ch of the following is delivered a	t the	end of the sprint?	1	4	5
				An architectural design of the			
	` /	case for the current	( )	solution			
	(C)		(D)	Wireframes designs for user			
	. ,	software	` /	interface			
2 of 4				09	JF7-18	MBH	[464J

18.	When is a sprint retrospective ceremony performed?  (A) Whenever the team suggests (B) At the end of each sprint (C) Whenever needed (D) Whenever the product owner suggests	1	1	4			
19.	When can a sprint be canceled?  (A) When ever the product owner (B) Sprint can never be cancelled says	1	2	4			
	(C) When development is unable (D) The sprint items are no longer to complete work needed						
20.	In scrum when is a sprint over?  (A) When the final test is (B) When the product owner completed suggests	1	1	4			
	completed suggests  (C) When the time box expires (D) When the final testing is completed						
	$PART - B (5 \times 4 = 20 Marks)$						
	Answer ANY FIVE Questions	Marks	BL	CO			
21.	Discuss the significance of project cost estimation.	4	2	1			
22.	Explain the need for float calculation.	4	2	2			
23.	Briefly discuss the need for risk management.						
	,						
24.	State the advantages of agile process.	4	2	4			
25.	Discuss the fundamentals of Devops.	4	3	5			
26.	Explain the challenges in project management.	4	2	1			
27.	Illustrate the concept of requirement analysis.	4	3	2			
	$PART - C (5 \times 12 = 60 Marks)$						
	Answer ALL Questions	Marks	BL	co			
28. a.	With neat sketch discuss the water fall model of software model development.	12	2	1			
	(OR)						
b.	Discuss the salient features of V-model and RAD model of software development.	12	2	1			
29. a.	For the following data determine the critical path and also find total float, free float and independence float	12	2	2			
	Activity Duration						
	1-2 4						
	2-3 5						
	2-4 7						
	2-5 6						
	4-5 0 5-6 9						
	3-6 10						
	6-7 3						
	(OR)						
	` '						

Page 2 of 4