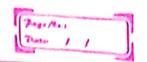


Unit I : Software Buelite Assurance and security (Weightage - 14 marks) Deaplain four Basic principles of software project scheduling. (4M) Ocompartmentalization The project must be compartmentalize into number of manageable activities and tasks. To accomplish compensamentalisation both product and process are Decompo 2) Interde pendency The interdependency of each compartmentali activity or took much be deformined . Some task must ocean in sequence while other can occur an parallel Some activity connot commerce until work product produced by another is aribible. Other cectiviles can occur independent. Time allocation to be scheduled must be edlocated. Some number of work Un74 (eg-person-days of effor). The start date and end date each allocated took must



Destort xalidation
Exery project has defined number of of steet members. The number of people culocated for scheduled task must be specified - xalidated by project manager.

Every task that is scheduled should be assigned to specific fear member.

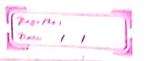
Every took that is scheduled Should be have a defined outcome. For software projects such as work product or part of a work product. Work producted are often combined in deliverable.

Every touk or group of touk
Should be associated with a
project milestone.

Milestone is a software tool
for planning that's used to mark a
point in prod-project schedule.

0	1 1 1 2000 1034 b		
(2).	Describe work breakdown with		
	1		
\Rightarrow	Work broadown 3 structure (WBS)		
	of a process of dividing the complex		
Duork broadown schrietens (who is a process of dividing the complex projects to simplex and manageable			
	tasks		
	In was large tasks are broken down into manageable task (chunks)		
	In wis Harger managemble took (chunks)		
	of work.		
	These Chenks can be easily manage or examined and anceglisted.		
-	or examined and analystes		
	The Drovell Indiana		
	for creation of was.		
1			
	Steps: Identify major activites of project		
	Chapting prayor advicticle		
	Step 3. Repeat till undividable, simple		
	and independent activities are		
	Created?		
	Fig. 10 10 10 10 10 10 10 10 10 10 10 10 10		
	Project 1		
	1 - 12:100 - 12:100 -		
	Task Task		
4			
1-1-1	Sub-toesk Scab-toesk		
TH			
##			
	Jook work work Package Paekage		
	receipe receixage receixage		

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1			
4	Project mænægers and subject mutter		
-	NE (TWE) ITIES OFF THE LINES		
	brecedown structure by pinpointing the main deleveries.		
	the main deleveries.		
	From there (SMES stood dissorting		
	From there SMES stood dissorting high-level toask into smaller changes		
	Task breekdown in WBS depend		
	Task breakdown in wBs depend on project type and management		
	Style.		
	Common pratices involve "two		
	weeks" rules which and vises against		
	tasks smaller than tup weeks.		
	worth of work, and the Plan		
	rule which sets a minumum of this		
	and maximum Of 80 hours per took.		
	wed can be displayed in		
	tree structures, lists, or tables		
	wit which is straightorward		
	method,		
	a series of a series of a series of a		
	and the common of the contract		
	The state of the s		
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2 marks Questions

Define software quality control.

Software quality (antrol is a set of activities for ensuring the quality of software products.

of software products.

of software products.

on fulfilling the quality requested.

It to nims to identify and fix defects - It is method to verify the quality - Validation.

It also involves executing a program and hence it's a correct feehicque.

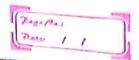
Define Software quality assurance

Soft means and practice of monitoring
all software engineering processes
method and work product to
ensure compliance against defined
atendards.

It conside of auditing and reporting functions of inanagement.

The goal of Quality assurance is to provide management with the data necessary to be informed about product outlity otherby gaining insight and confidence that product quality is meeting its

It's a Preventure technique.



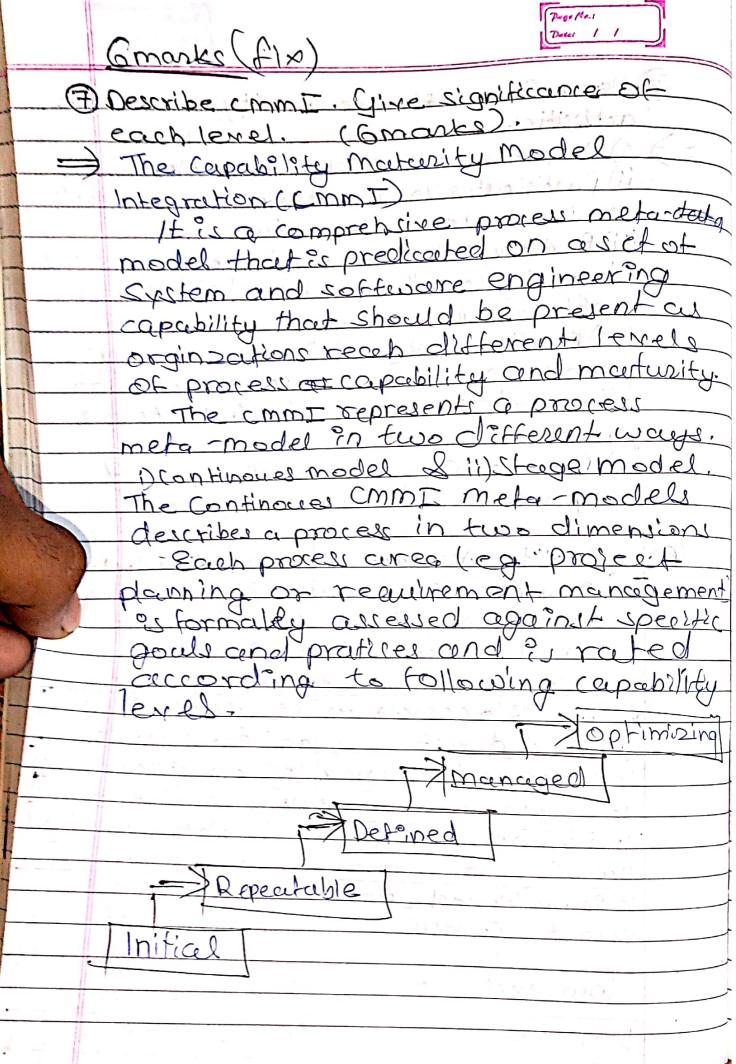
B) Mame four software quality concernce activities. Prepares an SOA plan for project. ii) Participates 90 development of project's software process description. iii) Reviews software engineering activities to verity compliance with defined Software process (v) Audits designed Software work products to verity compliance with those defined as part of software

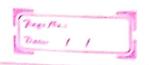
process. y) Records any non compliance and reportato sensor monagement

6

IJ		
	Quality Assurance	Quality Control
1	It is a procedure that	It is procedure.
ш		that focuses on
	assurance that quality	
	requested with be achieved	
	EQA agas to previent to	Oc aims to identify
	prevent detect	and fax defects
	It is preventive technique	,
	It is proactive measure	
	It does not involve	it involve executing
	executing the program.	of program.
•	It is performed before	It is performed
	Quality Control	after of arthrity
		Edore.
	low-level activity	nigh level
_	Less time conscending	more -time
		COT COLLEGE

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The software process is charachterized as ad hos and occasionally even chatatice. Few process care defined and sures depends on individual effort.

Level 2 : Repeatable

Basic project management project une established to track cost ischédule and functionality. The necessary project discipline is in place to repeat earlier eureses project with similion applications.

Level3: Definod.

The process is standarized documented and followed.

All the projetts well documented and approved rension of software process which is wetal in developing and supporting system.

Level 4: Monaged

Detailed measures of johnward projects

and product quality are collected.

Both the softward project and

product are quantitively understood

and controlled using detailed

measures.

The level includes all chancichtedes

detened for levels

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