Printe	d Pag	ge:- 04 Subject Code:- ACSBS0702	
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	IOID	A INICEPTIVE OF ENGINEERING AND TECHNOLOGY OF A TER NORM	
Γ	NOID	A INSTITUTE OF ENGINEERING AND TECHNOLOGY, GREATER NOIDA (An Autonomous Institute Affiliated to AKTU, Lucknow)	
		B.Tech	
		SEM: VII - THEORY EXAMINATION (2024 - 2025)	
		Subject: IT Project Management	
	e: 3 H		)()
		structions:	
		y that you have received the question paper with the correct course, code, branch etc. estion paper comprises of three Sections -A, B, & C. It consists of Multiple Choice	
	_	(MCQ)'s) & Subjective type questions.	
_		n marks for each question are indicated on right -hand side of each question.	
		e your answers with neat sketches wherever necessary.	
		suitable data if necessary.	
•	,	ly, write the answers in sequential order. should be left blank. Any written material after a blank sheet will not be	
		should be left blank. Any written material after a blank sheel will hot be hecked.	
<b>SECT</b>	TION-	<u>-A</u>	20
1. Atte	empt a	all parts:-	
1-a.	S	tate project management process involves identifying and documenting project	1
	ro	oles, responsibilities, and reporting relationships? (CO1, K1)	
	(a)	Develop Project Charter	
	(b)	Develop Project Management Plan	
	(c)	Acquire Project Team	
	(d)	Plan Human Resource Management	
1-b.		Define project management process involves obtaining final acceptance of the roject deliverables from stakeholders? (CO1, K1)	1
	(a)	Close Project or Phase	
	(b)	Direct and Manage Project Work	
	(c)	Validate Scope	
	(d)	Control Quality	
1-c.	L	ist the key characteristic of PERT? (CO2, K1)	1
	(a)	It uses deterministic estimates for activity durations.	
	(b)	It assumes all activities are independent of each other.	
	(c)	It provides a single-point estimate for project completion time.	
	(d)	It incorporates uncertainty in activity durations.	
1-d.	PERT is primarily used for projects that: (CO2, K1)	1	
	(a)	Have a fixed timeline and budget	

	(b)	Require extensive risk analysis	
	(c)	Involve complex technical requirements	
	(d)	Require continuous monitoring and control	
1-e.	State the main parameters that you should use when computing the costs of a software development project? (CO3, K1)		1
	(a)	travel and training costs	
	(b)	hardware and software costs	
	(c)	effort costs (the costs of paying software engineers and managers)	
	(d)	all of the mentioned	
1-f.		What is the formula to calculate the schedule variance (SV) in project nanagement? (CO3, K1)	1
	(a)	$SV = Earned\ Value\ (EV) - Actual\ Cost\ (AC)$	
	(b)	SV = Planned Value (PV) - Actual Cost (AC)	
	(c)	SV = Earned Value (EV) -/Planned Value (PV)	
	(d)	SV = Actual Cost (AC) - Planned Value (PV)	
1-g.	D	efine Scrum? (CO4, K1)	1
	(a)	A software development methodology	
	(b)	A project management framework	
	(c)	A product management technique	
	(d)	A programming language	
1-h.	W	What happens during the Sprint Review in Scrum? (CO4, K1)	1
	(a)	The team reflects on the past Sprint	
	(b)	The team plans for the next Sprint	
	(c)	The team demonstrates completed work	
	(d)	The team decides on the project budget	
1-i.	L	ist the popular version control system used in DevOps? (CO5, K1)	1
	(a)	Jenkins	
	(b)	Docker	
	(c)	Kubernetes	
	(d)	Git	
1-j.	W	Which of the following tools is used for containerization in DevOps? (CO5, K1)	1
	(a)	Ansible	
	(b)	Jenkins	
	(c)	Puppet	
	(d)	Docker	
2. Att	empt a	all parts:-	
2.a.	E	xplain the concept of Slack in project management and its significance. (CO1, (2)	2

2.b.	Discuss in brief how does PERT help in estimating project duration? (CO2, K2)	2
2.c.	Explain the term Project Audit. (CO3, K2)	2
2.d.	Describe how the length of a Sprint is determined in Scrum? (CO4, K2)	2
2.e.	Describe the benefits of using version control. (CO5, K2)	2
<b>SECTI</b>	ON-B	30
3. Ansv	ver any <u>five</u> of the following:-	
3-a.	Demonstrate how PERT can be used to identify critical paths in an IT project. (CO1, K3)	6
3-b.	Discuss the advantages and disadvantages of using software tools for project scheduling. (CO1, K2)	6
3-c.	Describe how you would use PERT to address uncertainties and risks in an IT project management scenario. (CO2, K2)	6
3-d.	Describe the key factors to consider when creating a resource schedule for an IT project. (CO2,K2)	6
3.e.	Differentiate Between Agile and Scrum. (CO3, K4)	6
3.f.	Describe the concept of a sprint backlog and how it is created. (CO4, K2)	6
3.g.	Describe the key components of a typical "CI/CD pipeline". (CO5, K2)	6
<b>SECTI</b>	ON-C	50
4. Ansv	ver any <u>one</u> of the following:-	
4-a.	Demonstrate the CPM in network analysis in detail. (CO1, K3)	10
4-b.	Discuss the role of milestones in project scheduling. Why are they important for project monitoring and control? Describe the impact of uncertainties and risks on project scheduling. How can a project manager address these challenges? (CO1, K2)	10
5. Answ	ver any <u>one</u> of the following:-	
5-a.	Discuss the advantages and disadvantages of using PERT as a project management tool in the IT industry. (CO2, K2)	10
5-b.	Describe the concept of "dummy activities" in PERT and provide examples of their use in IT project scheduling. (CO2, K2)	10
6. Ansv	ver any <u>one</u> of the following:-	
6-a.	Illustrate the different types of Agile methodologies. (CO3, K3)	10
6-b.	Differentiate between the Agile and software prototyping model. (CO3, K4)	10
7. Ansv	ver any <u>one</u> of the following:-	
7-a.	Describe the concept of "sprint goal" in Scrum and why it is important to have a clear goal for each sprint. (CO4, K2)	10
7-b.	Describe the process and objectives of a sprint review in Scrum. (CO4, K2)	10
8. Ansv	ver any <u>one</u> of the following:-	
8-a.	Discuss the significance of "Automated Testing" in the DevOps pipeline and how	10

it helps in achieving faster and more reliable releases. (CO5, K2)

8-b. Discuss the role of "Containerization" (e.g., Docker) in a DevOps environment. 10 Explain the benefits of using containers for application deployment and how they help in achieving consistency across different environments. (CO5, K2)

REG. TULY DEC. 2021