Reg. No:						

# **Question Paper Code: U7701**

## B.E./B.Tech. DEGREE EXAMINATION, NOV 2024

#### Seventh Semester

## Mechanical Engineering

(Common to all Branches except CSBS, AGRI)

#### 21UME701-PROJECT MANAGEMENT AND FINANCE

	210111	701-1 ROJLET W	ANAGL	MILIT AND I INA	NCL	
		(Regu	ılations 2	021)		
Dura	ation: Three hours				Maximum: 100 l	Marks
		PART A - (	$10 \times 1 =$	10 Marks)		
1.	Which characteristics decision	of project deals w	ith buy o	r make	(	CO1-U
	(a) Sub-contracting	(b) Life cycles	(c	) Risk & Uncertain	(d) change	
2.	A project is always				(	CO1-U
3.	(a) Customers specific The performance of a	1 3	•	, , ,	. ,	pecific
	(a) Dummy	(b) Event	(c	) Activity	(d) Contract	
4.	The PERT in project technique.	t management me	eans prog	gram evaluation and	1 (	CO1-U
	(a) resource	(b) reconciliation	n (c	) reconsideration	(d) review	
5.	Most of the schedulin manager to classify constrained.	-				CO1-U
	(a) Time, quality	(b) Quality, resor	urce (c	) Cost, time	(d) Time, resou	ırce
6.	In a resource-constraresources is usually gi	1 3	•	riority in assigning	5	CO1-U
	(a) Smallest duration		(b) Leas	t slack		
	(c) Most slack		(d) Low	est identification nur	nber	

7.	Proj	ect quality mear	ns qualit	ty of the	project e	nd-i	tems.					C	O1-U
	(a) I	Deliverable	(b) P	roduct	(c) de	elive	rable	an	d produ	et	(d) safety		
8.		ch of the fol ection?	lowing	doesn't	qualify	to	be a	a s	ynonyn	n for		C	O1-U
	(a) A	Audit	(b) I	Process A	analysis	(c	) Pee	r Re	eview		(d) Walkth	roug	gh
9.	and	atement which which serves to icular date is cal	ascerta									C	O1-U
	•	Trading Accoun				(b)	Profi	it ar	nd Loss	Accour	nt		
	(c) I	Balance Sheet				(d)	Ledg	ger A	Account	-			
10.	Curi	rent Ratio =	<u>-</u>									C	O1-U
	(a) (	Current assets /	Current	liabilitie	S	(b)	Fixed	d as	sets / C	urrent l	iabilities		
	(c) I	Debt / Current as	ssets			(d)	Debt	: / E	quity				
				PA	RT - B (	5 x 2	2= 10	Ma	rks)				
11.	Des	cribe line and st	aff orga	nization								CO	l-U
12.	Exp	lain Forward Pa	ss and b	ackward	pass.							CO	l <b>-</b> U
13.	Exp	lain Parkinson's	Law									CO	l <b>-</b> U
14.	Des	cribe Earned va	lue Man	agement								CO	l-U
15.	Exp	lain the term lia	bilities.									CO	l-U
				PAR	T-C (5	x 1	6= 80	)Ma	rks)				
16.	(a)	Briefly explain	types o		`						CO1-U		(16)
	(b)	Explain the rel structure?	ationshi	p betwee	en the W	BS a	ınd oı	rgaı	nization		CO1-U		(16)
17.	(a)	Draw the proj following data		vork and	determi	ne t	he cr	ritic	al path	for the	e CO2- A <sub>J</sub>	op	(16)

## Time in Months

Activity	Optimistic	Most	Pessimistic time (t <sub>p</sub> )
	time (t <sub>o</sub> )	likely time	
		$(t_m)$	
1-2	5	7	9
1-3	2	5	8
2-4	1	4	7
2-5	2	3	4
3-5	6	9	12
4-5	3	6	9

(b) Draw a project network for the following data determine the CO2-App (16) critical path of the project.

Activity	A	В	С	D	Е	F	G
Immediate predecessor	-	-	A	A,B	D	С,Е	Е
Expected Time (weeks)	7	9	12	8	9	6	5

Construct a project network

Perform forward and backward passes

Determine project completion time

Calculate slack value

State the critical path

18. (a) Demonstrate in detail about the critical chain scheduling method CO3- App (16) with suitable real time example

Or

- (b) Interpret CCPM and CPM with suitable examples and state their CO3- App (16) application and limitations
- 19. (a) Illustrate the New seven tools of quality management with suitable CO3- App (16) diagram

Or

- (b) Illustrate the steps involved in quality function deployment (QFD) CO3- App (16)
- 20. (a) Examine the Cash flow analysis and Funds flow analysis CO4- Ana (16)
  Or
  - (b) (i) Compare the trial balance sheet and balance sheet CO4- Ana (16)
    - (ii) Analysis the types of financial ratios in detail.