10

Briefly explain Master Budget

# 1000CET453122302

/ Fa	ges: Z	13.V
21	edilli-	16
31	I AF	ZXX C

(3)

		17	F	1	X		1
Reg No.:	Name:	1 +	Y	LAD	215	9	92
ADI ADDIN IZA	I AM TECHNICI COLCAI INITITE	1	100	Contract of		17.	-

# APJ ABDUL KALAM TECHNOLOGICAL UNIVERSITY

Seventh Semester B.Tech Degree Regular and Supplementary Examination December 2023 (2019 Scheme)

# **Course Code: CET453**

# Course Name: CONSTRUCTION PLANNING AND MANAGEMENT

Max. Ma	arks: 100	<b>Duration: 3 Hours</b>
	PART A  Answer all questions, each carries 3 marks.	Marks
1 .	Explain Critical Path of project	(3)
2	What do you mean by float? Discuss the different types of float	(3)
3	Explain Minimum Wages Act and its advantages	(3)
	Briefly explain any three advantages of using BIM in Management	Construction (3)
5	Briefly explain what is Recruitment	(3)
6	Briefly explain Over manning and its effects	(3)
7	Briefly explain Mobilisation Advance and its objective	(3)
8	What is a cash book	(3)
9	Enlist the main sources of project financing	(3)

# PART B Answer any one full question from each module, each carries 14 marks.

#### Module I

a) A maintenance project consists of a number of jobs. Their normal duration and costs along with crash costs and duration are given below. Find out the optimum project cost and time. Indirect cost Rs. 6000/ per day

			_	
Activity	Normal Duration	Normal Cost	Crash Duration	Crash Cost
1-2	9	9000	6	15000
1-3	8	2000	5	9500
1-4	15	5000	10	20000
2-4	5	2000	3	4000
3-4	10	7000	6	13000
4-5	2	3000	1	7000

OR

# 1000CET453122302

12	a)	Explain the roles and responsibilities of a Contractor in construction project	(7)
	b)	What is time cost trade off? Explain the methodology for determining the optimum time for a project	(7)
		Module II	
13	a)	Explain the Virtual construction workflow with 5D in BIM	(7)
	b)	Explain the organisational maturity in BIM	(7)
		OR	
14	a)	Explain the concept of 3D coordination and clash detection in BIM	(7)
	b)	Explain about the Workmen's Compensation Act 1923	(7)
		Module III	
15	a)	Explain the objectives and benefits of Human Resources Management in an organisation	(7)
	b)	What is the importance of Inventory Management? Explain the various Inventory related costs	(7)
		OR	
16	a)	Enlist any seven causes of accidents in a construction site and safety measures to be adopted to prevent it.	(7)
	b)	Explain the various functions of material management department	(7)
		Module IV	
17	a)	Differentiate between General and Special conditions of Contract	(7)
	b)	What is Measurement Book? Enlist the purpose of maintaining a Measurement Book	(7)
		OR	
18	a)	What is Security Deposit? Explain the purpose of Security Deposit	(7)
	b)	Explain the concept Net Present Value and its use in Project management	(7)
		Module V	
19	a)	What is Profit centre analysis and what are the different types of Profit centre analysis	(7)
	b)	What are the different types of Budget?	(7)
		OR	
20	a)	What is Financial statement analysis and discuss the three main financial statements	(7)
	b)	Differentiate between top-down and bottom-top approaches in budgeting.	(7)

Page 2of 2