Name……..……..Roll No…….

Mar Athanasius College of Engineering, Kothamangalam
Second Sessional Examination, October
CET 453- CONSTRUCTION PLANNING AND MANAGEMENT
S7 CE (A & B)

Time: 1.30 Hours **Marks:40**

Part A (4×3=12 Marks)

1. Discuss the objectives of man power planning in an organization (CO3)
2. Describe the role of workers in Safety management. (CO3)
3. Define the following terms: Work Abstract, Cash Book, and Work Register. (CO4)
4. Explain the Net Present Value (NPV) method of capital investment appraisal. (CO4)

Part B (14 x2=28 Marks)

5. Perform the ABC analysis on the following sample of items in an inventory.

Items	P	Q	R	S	T	U	V	W	X	Y
Annual consumption	300	2800	30	1100	40	220	1500	800	600	80
Price per unit	10	15	10	5	5	100	5	5	15	10

(14 marks) (CO3)

6. (a) A contractor executing a government building project brings cement, steel sections, bricks, and sand worth ₹8 lakh to the site for use in the agreed work items. The contractor requests a secured advance against these materials. As the Divisional Engineer, explain the conditions to be satisfied before granting the secured advance, the maximum amount that can be sanctioned, and the procedure for recovery of the advance from subsequent bills. (7 marks) (CO4)

(b) A government road project employs daily-wage workers. As the Junior Engineer, explain how you would maintain the Muster Roll, including its three parts and the records to be attached for payment and audit. (7 marks) (CO4)

Course Outcomes: After the completion of the course the students will be able to

CO1: Understand key principles and functions of management to grasp modern managerial roles

CO2: Explain the fundamentals of managing people and processes through effective staffing, motivation, leadership, and control strategies

CO3: Apply modern marketing strategies and digital transformation to build sustainable businesses

CO4: Understand the basics of idea pitching, managing finances and using modern marketing tools

CO5: Understand Intellectual Property Rights (IPR) and legal frameworks to protect innovation and navigate startup challenges

Vision

To develop a department Proficient in all aspects of Civil Engineering Blending theory and practice

Mission

To impart to the student the fundamentals of Civil Engineering as well as the modern trends with due emphasis on the local conditions and traditional norms. This can be achieved by enhancing knowhow of staff, improvement of facilities, liason with practice, upgrading of curriculum, a cordial staff student relationship

Question No.	**1**	**2**	**3**	**4**	**5**	**6**	**Total Marks**
CO Mapping	CO3	CO4	CO3	CO3	CO3	CO4	
Bloom Taxonomy Level	II	I	I	I	II	III	
Max. Marks	3	3	3	3	14	14	40

	Prepared By	Scrutinized By	Approved By HOD
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