

## **BALLARI INSTITUTE OF TECHNOLOGY & MANAGEMENT**

(Autonomous Institute under Visvesvaraya Technological University, Belagavi)

USN 

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Course Code 

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Sixth Semester B.E. Degree Examinations, September/October 2024

### **CONSTRUCTION MANAGEMENT AND ENTREPRENEURSHIP**

Duration: 3 hrs

Max. Marks: 100

*Note: 1. Answer any FIVE full questions choosing ONE full Question from each Module.*

*2. Use of Compound Interest Table is permitted.*

*3. Missing data, if any, may be suitably assumed*

<u>Q. No</u>	<u>Question</u>	<u>Marks</u>	<u>(RBTL:CO:PI)</u>
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#### Module-1

- |    |    |   |    |             |
|----|----|---|----|-------------|
| 1. | a. | Define management and briefly explain the 11 characteristics of management.                             | 10 | (2:1:1.2.1) |
|    | b. | Define planning? List out the objectives of planning. Briefly explain the two different types of plans. | 10 | (2:1:1.2.1) |

(OR)

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|----|----|---|----|-------------|
| 2. | a. | Define WBS. Briefly explain the Work Breakdown Structure (WBS) with a neat flow chart and mention the uses of WBS.                              | 10 | (2:1:1.2.1) |
|    | b. | The project has the following activity & predecessors & the time required to complete each activity of the project. Find out the critical path. | 10 | (3:1:2.1.3) |

Activity	Immediate predecessor	Duration in days
A	-	2
B	-	3
C	-	4
D	A	1
E	B	2
F	B	5
G	C	7
H	D, E	2
I	F, G	3
J	H, I	1

#### Module-2

- |    |    |   |    |             |
|----|----|---|----|-------------|
| 3. | a. | Define Resource management. Briefly explain resource management.  | 10 | (2:2:1.2.1) |
|    | b. | In the construction of an offshore oil drilling platform the potential labour hours is found to be L = 7.5 million years of this total. The non-productive activities is expressed in 1000 labour hours as follows. A = 417, B = 1415, C = 1141, D = 1431. Determine the productive labour yield. | 10 | (3:2:2.1.3) |

(OR)

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|----|----|--|----|-------------|
| 4. | a. | Explain wages and statutory requirements in detail.  | 08 | (2:2:1.2.1) |
|    | b. | A company has purchased an equipment whose first cost is 2,00,000 with an estimated life of 10 years. The estimated salvage of the equipment at the end of its life time is 25,000. Determine the depreciation charge and book value at the end of various years using a straight-line method of depreciation. | 12 | (3:2:2.1.3) |

**Note: (RBTL - Revised Bloom's Taxonomy Level: CO - Course Outcome: PI- Performance Indicator)**

**Module-3**

5. a. Briefly explain the concept of Total Quality Management (TQM) and mention the essential elements and principles of TQM. 12 (2:3:1.2.1)  
b. Briefly explain quality assurance and quality control in detail. 08 (2:3:1.2.1)

(OR)

6. a. Explain ISO 9000 and its 8 ISO management principles. Mention the benefits of ISO 9000 certification in construction industry. 10 (2:3:1.2.1)  
b. Explain the safety measures to be taken during (i) Excavation, (ii) Drilling and blasting, (iii) Demolition works. 10 (2:3:1.2.1)

**Module-4**

7. a. Briefly explain the principles of engineering economy. 10 (2:4:1.2.1)  
b. Differentiate between micro-economics and macro-economics. 10 (2:4:1.2.1)

(OR)

8. a. A person is planning a new business. The initial outlay and cash flow pattern for the new business are listed below. The expected life of the business is five years. Find the rate of return for the new business. 10 (3:4:2.1.4)

Period	0	1	2	3	4	5
Cash flow	-1,00,000	30,000	30,000	30,000	30,000	30,000

- b. A company invest in one of the two mutually exclusive alternatives. The life of both alternatives is estimated to be 5 years with the following investment, annual returns and salvage value. Determine the best alternative based on the annual returns and salvage value. Determine the best alternative based on annual equivalent method by assuming  $i = 25\%$ . 10 (3:4:2.1.4)

Particulars	A	B
Investment	1,50,000	1,75,000
Annual Equal return	60,000	70,000
Salvage Value	15,000	15,000

**Module-5**

9. a. Define entrepreneur? List out the advantages and disadvantages of entrepreneur. 12 (2:5:1.2.1)  
b. Explain the stages in entrepreneurial process in brief. 08 (2:5:1.2.1)

(OR)

- 10 a. Briefly explain business planning process and steps involved in preparation of project report. 08 (2:5:1.2.1)  
b. Write a short note on role and functions performed with respect to entrepreneurial development by:  
(i) KIADB (ii) KSSIDC (iii) TECSOK. 12 (2:5:1.2.1)

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