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**UNIVERSITY**

(Karunya Institute of Technology & Sciences)

(Declared as Deemed-to-be University under Sec.3 of the UGC Act, 1956)

Reg.No. \_\_\_\_\_\_\_\_\_\_\_\_\_

**End Semester Examination – Nov/Dec - 2016**

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|  |  | **Semester :** | **2016-17 ODD** |
| **Code :** | **12CE242** | **Duration :** | **3 hrs** |
| **Sub. Name :** | **Construction Management** | **Max. marks :** | **100** |

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| **Q. No.** | **Questions** | **Marks** |
| **PART-A(10X1=10 MARKS)** | | |
| 1. | Write the functions of the management. | (1) |
| 2. | Mention the types of project organizations. | (1) |
| 3. | Define Construction Schedule. | (1) |
| 4. | List the stages in Construction Planning? | (1) |
| 5. | Write two types of networks. | (1) |
| 6. | Expand PERT | (1) |
| 7. | Reason out : why are tender called for? | (1) |
| 8. | Justify : Importance of contract | (1) |
| 9. | Define Imprest account | (1) |
| 10. | Name one software utilized in Construction management | (1) |

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| **PART B(5 X 3= 15 MARKS)** | | |
| 11. | Explain the role of Government enable in the Construction Industry? | (3) |
| 12. | Name the types of labour. | (3) |
| 13. | In a small construction project there are 6 activities identified from G to L. The following are the relationships between the different activities is the first activity to be performed and I can be done concurrently and must follow G,H must precede J,K must succeed I, but it cannot start until H is completed, The last operation L is dependent upon the completion of both I and K. Draw and number the network. | (3) |
| 14. | List the steps involved in preparation of contract documents? | (3) |
| 15. | What is the role of computer application in construction management | (3) |

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| **PART C(5 X 15= 75 MARKS)** | | | |
| 16. | Detail the role of Private sectors and contractors in construction management | | (15) |
| (OR) | | | |
| 17. | Explain briefly the organizational structure of construction department. | | (15) |
| 18. | Write short notes on Settlement of disputes and Industrial psychology | | (15) |
| (OR) | | | |
| 19. | Discuss briefly about planning for materials, machines, men and organization in construction | | (15) |
| 20. |  | A project is composed of seven activities whose time estimates are listed below.   |  |  |  |  | | --- | --- | --- | --- | | Activity(i-j) | Expected duration (weeks) | | | | Optimistic(t) | Most likely(t) | Pessimistic(t) | | 1-2 | 1 | 1 | 7 | | 1-3 | 1 | 4 | 7 | | 1-4 | 2 | 2 | 8 | | 2-5 | 1 | 1 | 1 | | 3-5 | 2 | 5 | 14 | | 4-6 | 2 | 5 | 8 | | 5-6 | 3 | 6 | 15 |  1. Draw the project network and determine the critical path (8) 2. Determine the variance and standard deviation of the C.P. (7) |  |
| (OR) | | | |
| 21. | Compare CPM and PERT Analysis. Also explain the advantages of network analysis. | | (15) |
| 22. | Explain the following : (i) Departmental labour (ii) Contract system (iii) Legal implications | | (15) |
| (OR) | | | |
| 23. | Explain the following : (i) Submission and (ii) Processing of tenders (iii) Submission of tenders | | (15) |
| 24. | Detail in short : Completion reports and certificates | | (15) |
| (OR) | | | |
| 25. | Enumerate in detail the Impact of information technology on the construction industry | | (15) |

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