*evaluated out 100 based on certain technical criteria

Evaluate the bids based on the following criteria :

## Case A :

(i) Technical score must be more than 50
(ii) Job will be awarded to the bidder with the highest composite score evaluated by considering $80 \%$ weightage to score for technical competence and $20 \%$ weightage to score for the cost quoted.

## Case B :

(i) Technical score must be more than 50
(ii) Job is awarded to the bidder with the highest composite score evaluated by considering and equal weightage to score for techical competence and the cost quoted. $\quad 71 / 2+71 / 2=15$

## Unit III

5. (a) Create a WBS for building a SHOP. Use four levels of details and provide activity codes for each breakdown element?

Roll No. $\qquad$

18AA2261
M. Tech. EXAMINATION, May 2019
(First Semester)
(C Scheme) (Re-appear)
CONSTRUCTION \& REAL ESTATE
MANAGEMENT
MCRM601C
Project Development and Management

Time : 3 Hours]
[Maximum Marks : 75
Before answering the question-paper candidates should ensure that they have been supplied to correct and complete question-paper. No complaint, in this regard, will be entertained after the examination.

Note : Attempt Five questions in all, selecting one question from each Unit. All questions carry equal marks. Calculator may used for attempting numerical questions.
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## Unit I

1. Write short notes on any three of the following :
(a) Building project $v s$. Industrial project
(b) Scope management
(c) ISO 21500
(d) Feasibility report.
$5+5+5=15$
2. (a) A developer is envisaging to develop 273 acres land in to a residential development in Sonepat over the next five years. What type of delivery system would you suggest for this project, explain with reasons ?
(b) What is project and project management process as per the PMBoK ? Discuss role of project manager in each of the stages of project management ?

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71 / 2+71 / 2=15
$$

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## Unit II

3. (a) What is contract as per the Indian contract Act? Compare Lump sump contract with cost plus contract.
(b) Explain standard form of contract given by Central Public Works Department (CPWD) ?
$71 / 2+71 / 2=15$
4. The details of marks of the technical and the financial bids of four bidders, who bid for a project having an estimated cost of Rs. $1,00,000$ are given below :

| S.No. Bidder | Socre of | Financial bd |
| :--- | :--- | :--- |
|  | technical bid* | (in thousands, |


| 1 | A | 52 | 50 |  |
| :--- | :--- | :--- | :--- | :--- |
| 2 | B | 56 | 53 |  |
| 3 | C | 66 | 55 |  |
| 4 | D | 70 | 60 |  |
| 5 | E | 49 | 45 |  |
| 6 | F | 68 | 62 |  |
| P.T.O. |  |  |  |  |

(b) What are characteristics of repetitive projects, how Line of Balance technique can be used for resource optimization?
6. Precedence relations and durations for a 7activity project are shown in the table :

| Activity | Immediate <br> Predecessor | Duration |
| :---: | :---: | :---: |
| A | - | 5 |
| B | A | 8 |
| C | A | 6 |
| D | B | 9 |
| E | B, C | 6 |
| F | C | 3 |
| G | D,E,F | 1 |
| Draw an network | activity on the project | ow (AOA) |
| Compute finish tim late finish for each | early start (EFT), late me (LFT) an tivity. | (EST), early <br> time (LST), <br> al float (TF) |
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(c) Identify the critical activities and the critical path.
$5+5+5=15$

## Unit IV

7. (a) What is Arbitration ? What are the five common causes of construction disputes?
(b) Discuss five construction management practices you would follow as construction manager for GRIHA compliance on your project site.

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71 / 2+71 / 2=15
$$

8. Consider the proejct data in the table with data for normal and crash times and costs for each activity. Calculate the minimum total project costs for a maximum critical path length and the maximum total project cost for a minimum critical path length. 15
