**Hall Ticket Number: 18CE601**

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| **III/IV B.Tech (Regular) DEGREE EXAMINATION** | | | |
| **July, 2021** | **Civil Engineering** | | |
| **Sixth Semester** | **Estimation and Quantity Surveying** | | |
| **Time:** Three Hours | | **Maximum :** 50 Marks | |
| *Answer Question No.1 compulsorily.* | | | (10X1 = 10 Marks) |
| *Answer ONE question from each unit.* | | | (4X10=40 Marks) |

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| 1 | Answer all questions | | (1X10=10 Marks) | |
|  | a) | What do you meant by contingencies? | |  |
|  | b) | What data is necessary for estimation? | |  |
|  | c) | Mention the unit of measurement for plastering and pointing. | |  |
|  | d) | What is the difference between general specifications and detailed specifications? | |  |
|  | e) | What is the difference between plinth area and floor area? | |  |
|  | f) | What is capitalized value? | |  |
|  | g) | Why earnest money is needed? | |  |
|  | h) | Calculate Quantity of cement per 10 cum of concrete of grade M20. | |  |
|  | i) | What is measurement book? | |  |
|  | j) | What do you mean by rent statement? | |  |
| **UNIT I** | | | | |
| 2 | a) | Explain the masonry calculations in different types of arches? | | 5M |
|  | b) | What are the deductions for masonry item of work? | | 5M |
| **(OR)** | | | | |
| 3 | a) | What are the principles of units for various items of works? | | 5M |
|  | b) | What are the various methods of estimating and explain about center line method? | | 5M |
| **UNIT II** | | | | |
| 4 |  | Prepare a detailed estimate of a R.C.C square column of size 0.30 X 0.30 m, base 1.2 X 1.2m. From the given drawing.  J:\academic year 14-15\PREVIOUS EQS MATTER\aaaaa 1 001.jpg | | 10M |
| **(OR)** | | | | |
| **P.T.O.**  **18CE601** | | | | |
| 5 | |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | | Estimate the quantity of earth work and area of side slope for a portion of a road from the given data.  Formation width of road is 9.0 m side slopes 1.5:1 in cutting. R.L of formation 139.00 at 200 m and a downward gradient of 1 in 200.   |  |  |  |  |  |  |  |  |  |  |  | | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | | Distance (m) | 200 | 250 | 300 | 350 | 400 | 450 | 500 | 550 | 600 | 650 | | R.L of ground (m) | 139.2 | 138.35 | 138.2 | 137.65 | 138 | 137.2 | 135.1 | 135.9 | 136.6 | 136.2 | | | | | 10M |
| **UNIT III** | | | | |
| 6 | a) | Explain the detailed specifications of the Random Rubble stone masonry? | | 5M |
|  | b) | Explain the detailed specifications for R.C.C work? | | 5M |
| **(OR)** | | | | |
| 7 | a) | Prepare a rate analysis for R.C.C work in columns with proportion 1:1.5:3 | | 5M |
|  | b) | Prepare a rate analysis for Cement concrete in foundation with 40 mm gauge stone ballast of 1:2:4 | | 5M |
| **UNIT IV** | | | | |
| 8 | a) | Explain the various methods for estimating cost depreciation? | | 5M |
|  | b) | Write about different types of contracts | | 5M |
| **(OR)** | | | | |
| 9 | a) | Briefly explain the types of estimate? | | 5M |
|  | b) | Discuss the organization of engineering department. | | 5M |

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