## END SEMESTER EXAMINATION, 2021

Semester: 6th (CIVIL)
Subject code: CV-602

Subject: ESTIMATING-II

Full Marks: 56

Duration $=2$ hours and 30 minutes

Instructions:

All Questions are compulsory
Assume any missing data

| Question no. | Questions | Marks |
| :---: | :---: | :---: |
| Question 1 | Fill in the blanks | $1 \times 10=10$ |
| 1(i) | Lead is the ___ distance for which earth work is estimated. |  |
| 1(ii) | Nominal roll is a part of ___ |  |
| 1(iii) | Measurement book is a special type of notebook of dimension |  |
| 1(iv) | $\qquad$ is the amount of money which shall be deposited by the contractor whose tender has been accepted. |  |
| 1(v) | Unit of measurement of earthwork is _ـ_ |  |
| 1(vi) | $\qquad$ indicates the incidental expenses of miscellaneous nature which cannot be reasonably predicted under any item or subhead during preparation of estimate. |  |
| 1(vii) | Bar reinforcement is measured in weight in __. |  |
| 1(viii) | $\qquad$ describe the nature and the class of the work, materials to be used in the work, workmanship etc. and is very important for the execution of the work. |  |
| 1(ix) | If the excavated quantity of canal is just sufficient to the quantity of banking then the depth is called $\qquad$ |  |
| 1(x) | The quantity of work done by a skill labour in one day is called $\qquad$ . |  |


| Question 2 | Write short note on any five of the following: |  |  |  |  |  |  | $3 \times 5=15$ |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| 2(i) | Administrative approval |  |  |  |  |  |  |  |
| 2(ii) | Labour contract |  |  |  |  |  |  |  |
| 2(iii) | Earnest money |  |  |  |  |  |  |  |
| 2(iv) | Measurement book |  |  |  |  |  |  |  |
| 2(v) | Security money |  |  |  |  |  |  |  |
| 2(vi) | Tender |  |  |  |  |  |  |  |
|  |  |  |  |  |  |  |  |  |
| Question 3 | Answer any four of the following questions |  |  |  |  |  |  | $4 \times 4=16$ |
| 3(i) | What are the types of specification? Write about each type in brief. |  |  |  |  |  |  |  |
| 3(ii) | Write short note on muster roll. |  |  |  |  |  |  |  |
| 3(iii) | What are the different types of contract? Explain any one type. |  |  |  |  |  |  |  |
| 3(iv) | What are the factors affecting Rate Analysis? |  |  |  |  |  |  |  |
| 3(v) | What is lead and lift? |  |  |  |  |  |  |  |
|  |  |  |  |  |  |  |  |  |
| Question 4 | Answer any three the following questions: |  |  |  |  |  |  | $5 \times 3=15$ |
| 4(i) | Analyse the rate of First class brick work with 1:4 cement mortar. |  |  |  |  |  |  |  |
| 4(ii) | Estimate the quantity of earthwork of a road section of length 100 m , formation width 10 m , left side slope= 2:1 and right side slope $=1.5: 1$ and height at one end is 1.6 m and other end 2 m . Use any 2 methods and compare the results. |  |  |  |  |  |  |  |
| 4(iii) | RL of ground |  |  |  |  | 99.45 | 99.5 |  |
|  | Distance (m) | $0$ |  |  |  |  | $250$ |  |
|  | RL of formation is 98.7 at ' 0 ' m . The land has a rising gradient 1 in 200, upto 150 m and then downward gradient 1 in 200. <br> Formation width $=10 \mathrm{~m}$ <br> Side slope in banking $=$ 2:1 <br> Side slope in cutting $=1.5: 1$ <br> Find also the total cost of earthwork. The cost of earthwork for banking is $200 / \mathrm{m}^{3}$ and for cutting $150 / \mathrm{m}^{3}$. |  |  |  |  |  |  |  |
| 4(iv) | Analyse the rate of Plain cement concrete in foundation (1:4:8), 50 mm nominal size |  |  |  |  |  |  |  |

