

| | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|---|--|----|--|----|---|--|---|----|--|--|-----|---|---|--|---|---|--|---|--|-----|--|---|---|---|---|---|---|----|--|--|-----|--|---|--|---|---|--|---|--|-----|--|---|--|---|---|---|---|----|--|--|-----|--|---|--|---|---|--|---|--|
| Total No of Questions: [12] | SEAT NO: <div style="border: 1px solid black; width: 150px; height: 25px; display: inline-block;"></div> | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| [Total No of Pages:2] | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| B.E. Civil 2008 Course | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Elective III Construction Management | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Time: 3 Hours | Max. Marks:100 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Instructions to the candidates: <ol style="list-style-type: none"> 1) Answer Q 1 or Q 2, Q 3 or Q 4, Q 5 or Q 6 from Section I and Q 7 or Q 8, Q 9 or Q 10, Q11 or Q 12 from section II. 2) Answers to the two sections should be written in separate answer books. 3) Neat diagrams must be drawn wherever necessary. 4) Figures to the right side indicate full marks. 5) Use of Calculator is allowed. 6) Assume Suitable data if necessary | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| SECTION I | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Q 1 | <table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 5%;">a</td> <td style="width: 85%;">Why do we use project management within the construction industry? What are benefits of applying project management?</td> <td style="width: 10%; text-align: center;">10</td> </tr> <tr> <td>b</td> <td>Discuss the factors responsible for delays in the projects. How these can be reduced?</td> <td style="text-align: center;">8</td> </tr> <tr> <td colspan="3" style="text-align: center;">OR</td> </tr> <tr> <td>Q 2</td> <td> <table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 5%;">a</td> <td style="width: 85%;">Discuss role of Construction Industry in economic development of a country</td> <td style="width: 10%; text-align: center;">9</td> </tr> <tr> <td>b</td> <td>What do you mean by the term Project Management Consultants? What is the procedure for their selection and appointment?</td> <td style="text-align: center;">9</td> </tr> </table> </td> <td></td> </tr> <tr> <td>Q 3</td> <td> <table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 5%;">a</td> <td style="width: 85%;">Explain the term String Diagram, and discuss its importance</td> <td style="width: 10%; text-align: center;">8</td> </tr> <tr> <td>b</td> <td>Write a detailed note of line of balance technique with an example.</td> <td style="text-align: center;">8</td> </tr> <tr> <td colspan="3" style="text-align: center;">OR</td> </tr> <tr> <td>Q 4</td> <td> <table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 5%;">a</td> <td style="width: 85%;">What do you mean by Work Break Down Structure? Discuss its importance in construction scheduling</td> <td style="width: 10%; text-align: center;">8</td> </tr> <tr> <td>b</td> <td>Define “ Work Study” and discuss its objectives with examples</td> <td style="text-align: center;">8</td> </tr> </table> </td> <td></td> </tr> <tr> <td>Q 5</td> <td> <table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 5%;">a</td> <td style="width: 85%;">Write a detailed note on Workman’s Compensation Act 1923</td> <td style="width: 10%; text-align: center;">8</td> </tr> <tr> <td>b</td> <td>Define Working capital. Discuss the important factors influencing the working capital requirement in a organization</td> <td style="text-align: center;">8</td> </tr> <tr> <td colspan="3" style="text-align: center;">OR</td> </tr> <tr> <td>Q 6</td> <td> <table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 5%;">a</td> <td style="width: 85%;">Explain the Concept of Profit and Loss accounts statements</td> <td style="width: 10%; text-align: center;">8</td> </tr> <tr> <td>b</td> <td>What are the employer’s obligations and responsibilities that are as stated in Building and Other Construction Workers Act 1996?</td> <td style="text-align: center;">8</td> </tr> </table> </td> <td></td> </tr> </table> </td> </tr> </table> </td></tr></table> | a | Why do we use project management within the construction industry? What are benefits of applying project management? | 10 | b | Discuss the factors responsible for delays in the projects. How these can be reduced? | 8 | OR | | | Q 2 | <table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 5%;">a</td> <td style="width: 85%;">Discuss role of Construction Industry in economic development of a country</td> <td style="width: 10%; text-align: center;">9</td> </tr> <tr> <td>b</td> <td>What do you mean by the term Project Management Consultants? What is the procedure for their selection and appointment?</td> <td style="text-align: center;">9</td> </tr> </table> | a | Discuss role of Construction Industry in economic development of a country | 9 | b | What do you mean by the term Project Management Consultants? What is the procedure for their selection and appointment? | 9 | | Q 3 | <table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 5%;">a</td> <td style="width: 85%;">Explain the term String Diagram, and discuss its importance</td> <td style="width: 10%; text-align: center;">8</td> </tr> <tr> <td>b</td> <td>Write a detailed note of line of balance technique with an example.</td> <td style="text-align: center;">8</td> </tr> <tr> <td colspan="3" style="text-align: center;">OR</td> </tr> <tr> <td>Q 4</td> <td> <table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 5%;">a</td> <td style="width: 85%;">What do you mean by Work Break Down Structure? Discuss its importance in construction scheduling</td> <td style="width: 10%; text-align: center;">8</td> </tr> <tr> <td>b</td> <td>Define “ Work Study” and discuss its objectives with examples</td> <td style="text-align: center;">8</td> </tr> </table> </td> <td></td> </tr> <tr> <td>Q 5</td> <td> <table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 5%;">a</td> <td style="width: 85%;">Write a detailed note on Workman’s Compensation Act 1923</td> <td style="width: 10%; text-align: center;">8</td> </tr> <tr> <td>b</td> <td>Define Working capital. Discuss the important factors influencing the working capital requirement in a organization</td> <td style="text-align: center;">8</td> </tr> <tr> <td colspan="3" style="text-align: center;">OR</td> </tr> <tr> <td>Q 6</td> <td> <table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 5%;">a</td> <td style="width: 85%;">Explain the Concept of Profit and Loss accounts statements</td> <td style="width: 10%; text-align: center;">8</td> </tr> <tr> <td>b</td> <td>What are the employer’s obligations and responsibilities that are as stated in Building and Other Construction Workers Act 1996?</td> <td style="text-align: center;">8</td> </tr> </table> </td> <td></td> </tr> </table> </td> </tr> </table> | a | Explain the term String Diagram, and discuss its importance | 8 | b | Write a detailed note of line of balance technique with an example. | 8 | OR | | | Q 4 | <table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 5%;">a</td> <td style="width: 85%;">What do you mean by Work Break Down Structure? Discuss its importance in construction scheduling</td> <td style="width: 10%; text-align: center;">8</td> </tr> <tr> <td>b</td> <td>Define “ Work Study” and discuss its objectives with examples</td> <td style="text-align: center;">8</td> </tr> </table> | a | What do you mean by Work Break Down Structure? Discuss its importance in construction scheduling | 8 | b | Define “ Work Study” and discuss its objectives with examples | 8 | | Q 5 | <table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 5%;">a</td> <td style="width: 85%;">Write a detailed note on Workman’s Compensation Act 1923</td> <td style="width: 10%; text-align: center;">8</td> </tr> <tr> <td>b</td> <td>Define Working capital. Discuss the important factors influencing the working capital requirement in a organization</td> <td style="text-align: center;">8</td> </tr> <tr> <td colspan="3" style="text-align: center;">OR</td> </tr> <tr> <td>Q 6</td> <td> <table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 5%;">a</td> <td style="width: 85%;">Explain the Concept of Profit and Loss accounts statements</td> <td style="width: 10%; text-align: center;">8</td> </tr> <tr> <td>b</td> <td>What are the employer’s obligations and responsibilities that are as stated in Building and Other Construction Workers Act 1996?</td> <td style="text-align: center;">8</td> </tr> </table> </td> <td></td> </tr> </table> | a | Write a detailed note on Workman’s Compensation Act 1923 | 8 | b | Define Working capital. Discuss the important factors influencing the working capital requirement in a organization | 8 | OR | | | Q 6 | <table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 5%;">a</td> <td style="width: 85%;">Explain the Concept of Profit and Loss accounts statements</td> <td style="width: 10%; text-align: center;">8</td> </tr> <tr> <td>b</td> <td>What are the employer’s obligations and responsibilities that are as stated in Building and Other Construction Workers Act 1996?</td> <td style="text-align: center;">8</td> </tr> </table> | a | Explain the Concept of Profit and Loss accounts statements | 8 | b | What are the employer’s obligations and responsibilities that are as stated in Building and Other Construction Workers Act 1996? | 8 | |
| a | Why do we use project management within the construction industry? What are benefits of applying project management? | 10 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| b | Discuss the factors responsible for delays in the projects. How these can be reduced? | 8 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| OR | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Q 2 | <table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 5%;">a</td> <td style="width: 85%;">Discuss role of Construction Industry in economic development of a country</td> <td style="width: 10%; text-align: center;">9</td> </tr> <tr> <td>b</td> <td>What do you mean by the term Project Management Consultants? What is the procedure for their selection and appointment?</td> <td style="text-align: center;">9</td> </tr> </table> | a | Discuss role of Construction Industry in economic development of a country | 9 | b | What do you mean by the term Project Management Consultants? What is the procedure for their selection and appointment? | 9 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| a | Discuss role of Construction Industry in economic development of a country | 9 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| b | What do you mean by the term Project Management Consultants? What is the procedure for their selection and appointment? | 9 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Q 3 | <table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 5%;">a</td> <td style="width: 85%;">Explain the term String Diagram, and discuss its importance</td> <td style="width: 10%; text-align: center;">8</td> </tr> <tr> <td>b</td> <td>Write a detailed note of line of balance technique with an example.</td> <td style="text-align: center;">8</td> </tr> <tr> <td colspan="3" style="text-align: center;">OR</td> </tr> <tr> <td>Q 4</td> <td> <table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 5%;">a</td> <td style="width: 85%;">What do you mean by Work Break Down Structure? Discuss its importance in construction scheduling</td> <td style="width: 10%; text-align: center;">8</td> </tr> <tr> <td>b</td> <td>Define “ Work Study” and discuss its objectives with examples</td> <td style="text-align: center;">8</td> </tr> </table> </td> <td></td> </tr> <tr> <td>Q 5</td> <td> <table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 5%;">a</td> <td style="width: 85%;">Write a detailed note on Workman’s Compensation Act 1923</td> <td style="width: 10%; text-align: center;">8</td> </tr> <tr> <td>b</td> <td>Define Working capital. Discuss the important factors influencing the working capital requirement in a organization</td> <td style="text-align: center;">8</td> </tr> <tr> <td colspan="3" style="text-align: center;">OR</td> </tr> <tr> <td>Q 6</td> <td> <table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 5%;">a</td> <td style="width: 85%;">Explain the Concept of Profit and Loss accounts statements</td> <td style="width: 10%; text-align: center;">8</td> </tr> <tr> <td>b</td> <td>What are the employer’s obligations and responsibilities that are as stated in Building and Other Construction Workers Act 1996?</td> <td style="text-align: center;">8</td> </tr> </table> </td> <td></td> </tr> </table> </td> </tr> </table> | a | Explain the term String Diagram, and discuss its importance | 8 | b | Write a detailed note of line of balance technique with an example. | 8 | OR | | | Q 4 | <table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 5%;">a</td> <td style="width: 85%;">What do you mean by Work Break Down Structure? Discuss its importance in construction scheduling</td> <td style="width: 10%; text-align: center;">8</td> </tr> <tr> <td>b</td> <td>Define “ Work Study” and discuss its objectives with examples</td> <td style="text-align: center;">8</td> </tr> </table> | a | What do you mean by Work Break Down Structure? Discuss its importance in construction scheduling | 8 | b | Define “ Work Study” and discuss its objectives with examples | 8 | | Q 5 | <table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 5%;">a</td> <td style="width: 85%;">Write a detailed note on Workman’s Compensation Act 1923</td> <td style="width: 10%; text-align: center;">8</td> </tr> <tr> <td>b</td> <td>Define Working capital. Discuss the important factors influencing the working capital requirement in a organization</td> <td style="text-align: center;">8</td> </tr> <tr> <td colspan="3" style="text-align: center;">OR</td> </tr> <tr> <td>Q 6</td> <td> <table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 5%;">a</td> <td style="width: 85%;">Explain the Concept of Profit and Loss accounts statements</td> <td style="width: 10%; text-align: center;">8</td> </tr> <tr> <td>b</td> <td>What are the employer’s obligations and responsibilities that are as stated in Building and Other Construction Workers Act 1996?</td> <td style="text-align: center;">8</td> </tr> </table> </td> <td></td> </tr> </table> | a | Write a detailed note on Workman’s Compensation Act 1923 | 8 | b | Define Working capital. Discuss the important factors influencing the working capital requirement in a organization | 8 | OR | | | Q 6 | <table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 5%;">a</td> <td style="width: 85%;">Explain the Concept of Profit and Loss accounts statements</td> <td style="width: 10%; text-align: center;">8</td> </tr> <tr> <td>b</td> <td>What are the employer’s obligations and responsibilities that are as stated in Building and Other Construction Workers Act 1996?</td> <td style="text-align: center;">8</td> </tr> </table> | a | Explain the Concept of Profit and Loss accounts statements | 8 | b | What are the employer’s obligations and responsibilities that are as stated in Building and Other Construction Workers Act 1996? | 8 | | | | | | | | | | | | | | | | | | | | | |
| a | Explain the term String Diagram, and discuss its importance | 8 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| b | Write a detailed note of line of balance technique with an example. | 8 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| OR | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Q 4 | <table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 5%;">a</td> <td style="width: 85%;">What do you mean by Work Break Down Structure? Discuss its importance in construction scheduling</td> <td style="width: 10%; text-align: center;">8</td> </tr> <tr> <td>b</td> <td>Define “ Work Study” and discuss its objectives with examples</td> <td style="text-align: center;">8</td> </tr> </table> | a | What do you mean by Work Break Down Structure? Discuss its importance in construction scheduling | 8 | b | Define “ Work Study” and discuss its objectives with examples | 8 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| a | What do you mean by Work Break Down Structure? Discuss its importance in construction scheduling | 8 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| b | Define “ Work Study” and discuss its objectives with examples | 8 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Q 5 | <table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 5%;">a</td> <td style="width: 85%;">Write a detailed note on Workman’s Compensation Act 1923</td> <td style="width: 10%; text-align: center;">8</td> </tr> <tr> <td>b</td> <td>Define Working capital. Discuss the important factors influencing the working capital requirement in a organization</td> <td style="text-align: center;">8</td> </tr> <tr> <td colspan="3" style="text-align: center;">OR</td> </tr> <tr> <td>Q 6</td> <td> <table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 5%;">a</td> <td style="width: 85%;">Explain the Concept of Profit and Loss accounts statements</td> <td style="width: 10%; text-align: center;">8</td> </tr> <tr> <td>b</td> <td>What are the employer’s obligations and responsibilities that are as stated in Building and Other Construction Workers Act 1996?</td> <td style="text-align: center;">8</td> </tr> </table> </td> <td></td> </tr> </table> | a | Write a detailed note on Workman’s Compensation Act 1923 | 8 | b | Define Working capital. Discuss the important factors influencing the working capital requirement in a organization | 8 | OR | | | Q 6 | <table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 5%;">a</td> <td style="width: 85%;">Explain the Concept of Profit and Loss accounts statements</td> <td style="width: 10%; text-align: center;">8</td> </tr> <tr> <td>b</td> <td>What are the employer’s obligations and responsibilities that are as stated in Building and Other Construction Workers Act 1996?</td> <td style="text-align: center;">8</td> </tr> </table> | a | Explain the Concept of Profit and Loss accounts statements | 8 | b | What are the employer’s obligations and responsibilities that are as stated in Building and Other Construction Workers Act 1996? | 8 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| a | Write a detailed note on Workman’s Compensation Act 1923 | 8 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| b | Define Working capital. Discuss the important factors influencing the working capital requirement in a organization | 8 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| OR | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Q 6 | <table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 5%;">a</td> <td style="width: 85%;">Explain the Concept of Profit and Loss accounts statements</td> <td style="width: 10%; text-align: center;">8</td> </tr> <tr> <td>b</td> <td>What are the employer’s obligations and responsibilities that are as stated in Building and Other Construction Workers Act 1996?</td> <td style="text-align: center;">8</td> </tr> </table> | a | Explain the Concept of Profit and Loss accounts statements | 8 | b | What are the employer’s obligations and responsibilities that are as stated in Building and Other Construction Workers Act 1996? | 8 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| a | Explain the Concept of Profit and Loss accounts statements | 8 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| b | What are the employer’s obligations and responsibilities that are as stated in Building and Other Construction Workers Act 1996? | 8 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |

| | | | |
|------|---|--|---|
| | | | |
| | | SECTION II | |
| Q 7 | a | Define Risk. What is Project Risk Management Plan? Discuss the financial and market risks that affect a project | 9 |
| | b | Write a detailed note on Decision tree analysis. | 9 |
| | | OR | |
| Q 8 | a | Discuss the duties of Project Manager, project team member and risk manager in carrying out the plan. | 9 |
| | b | Apply value engineering to a Residential Project | 9 |
| Q 9 | a | Explain the objectives and various stages of carrier planning | 8 |
| | b | Discuss role of ERP in Materials management | 8 |
| | | OR | |
| Q 10 | a | Write a short note on HRIS (Human Resource Information system) | 8 |
| | b | Draw a neat sketch of Construction Supply Chain and mention any three distinct features of Construction Supply Chain | 8 |
| Q 11 | a | Discuss applications of ANN in Civil Engineering | 8 |
| | b | What are the different application of Artificial Intelligence in Construction Management | 8 |
| | | OR | |
| Q 12 | a | What is forward and backward propagation in ANN | 8 |
| | b | What is fuzzy Logic? Discuss different membership function in Fuzzy Logic. | 8 |