



UNIVERSITY OF PETROLEUM AND ENERGY STUDIES
End Semester Examination, December 2021

Course: Project Management & Project Finance
Program: BBA, LL.B. (Hons.) Corp./BIF./ITIL.
Course code: CLNL3002P

Semester: V
Time: 03 Hours
Max. Marks: 100

Instructions: Use of calculator is allowed

SECTION A (Choose the correct option)

| | | Marks | CO | | | | | | | | |
|------------------|---|------------------------|-------------------------|----------|----------|------------------|------------------|------------------------|-------------------------|----------|------------|
| Q 1.1 | A project is _____ endeavor undertaken to create a "unique" product, service or result. <table border="1"> <tr> <td align="center">a</td> <td align="center">b</td> <td align="center">c</td> <td align="center">d</td> </tr> <tr> <td>temporary</td> <td>permanent</td> <td>secret</td> <td>risky</td> </tr> </table> | a | b | c | d | temporary | permanent | secret | risky | 2 | CO1 |
| a | b | c | d | | | | | | | | |
| temporary | permanent | secret | risky | | | | | | | | |
| Q 1.2 | _____ is a graphical model of the Project depicting the interrelationship between the various activities. <table border="1"> <tr> <td align="center">a</td> <td align="center">b</td> <td align="center">c</td> <td align="center">d</td> </tr> <tr> <td>Gantt Chart</td> <td>S-curve</td> <td>Network Diagram</td> <td>PERT</td> </tr> </table> | a | b | c | d | Gantt Chart | S-curve | Network Diagram | PERT | 2 | CO1 |
| a | b | c | d | | | | | | | | |
| Gantt Chart | S-curve | Network Diagram | PERT | | | | | | | | |
| Q 1.3 | The most hectic phase of the project life cycle is: <table border="1"> <tr> <td align="center">a</td> <td align="center">b</td> <td align="center">c</td> <td align="center">d</td> </tr> <tr> <td>Conception Phase</td> <td>Definition Phase</td> <td>Implementation Phase</td> <td>Clean-up Phase</td> </tr> </table> | a | b | c | d | Conception Phase | Definition Phase | Implementation Phase | Clean-up Phase | 2 | CO1 |
| a | b | c | d | | | | | | | | |
| Conception Phase | Definition Phase | Implementation Phase | Clean-up Phase | | | | | | | | |
| Q 1.4 | The transition phase in the project life cycle is: <table border="1"> <tr> <td align="center">a</td> <td align="center">b</td> <td align="center">c</td> <td align="center">d</td> </tr> <tr> <td>Definition Phase</td> <td>Planning Phase</td> <td>Implementation Phase</td> <td>Clean-up Phase</td> </tr> </table> | a | b | c | d | Definition Phase | Planning Phase | Implementation Phase | Clean-up Phase | 2 | CO1 |
| a | b | c | d | | | | | | | | |
| Definition Phase | Planning Phase | Implementation Phase | Clean-up Phase | | | | | | | | |
| Q 1.5 | _____ defines the project scope, the project goals, name the project manager, his directing authority and request co-operation of all concerned in execution of the project. <table border="1"> <tr> <td align="center">a</td> <td align="center">b</td> <td align="center">c</td> <td align="center">d</td> </tr> <tr> <td>Project Charter</td> <td>Project Manual</td> <td>Project Execution Plan</td> <td>Project Scope Statement</td> </tr> </table> | a | b | c | d | Project Charter | Project Manual | Project Execution Plan | Project Scope Statement | 2 | CO1 |
| a | b | c | d | | | | | | | | |
| Project Charter | Project Manual | Project Execution Plan | Project Scope Statement | | | | | | | | |

SECTION B

| Q 2 | Distinguish between CPM & PERT | 5 | CO2 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|------------------|--|------------------|---------------------------|------------------|---------------------------|---|---|---|---|---|---|---|---|---|---|---|----|---|---|---|---|---|---|---|----|---|-----|---|---|---|-----|---|---|---|---|---|---|----|-----|
| Q 3 | Classify the projects according to financial institutions & business sectors. | 5 | CO2 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Q 4 | Explain essential elements of a contract. | 5 | CO2 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Q 5 | How Triple constraints of project management are interrelated? | 5 | CO2 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| SECTION-C | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Q 6 | Give an overview of tools available for project quality management. OR Discuss the various risk response strategies for managing project risks. | 10 | CO3 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Q 7 | The initial investment in a project is Rs. 1 Crore and projected to generate cash flows of Rs. 10 Lakhs, Rs. 20 Lakhs, Rs. 30 Lakhs, Rs. 40 Lakhs & Rs. 50 Lakhs at the end of each year for next 5 years. If the cost of capital is 12%, should the project be accepted? | 10 | CO3 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| SECTION-D | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Q 8 | <p>(a) Estimate the installation cost of a manufacturing unit of capacity 1000 tons per annum at a new location (Location Index=150). The installation cost of a similar plant constructed 5 years back of capacity 500 tons per annum was Rs. 10 crores at another location (Location Index=100). The cost index (current) is 2500, which was 1700 five years back.</p> <p>(b) Consider the data of a project shown in the following table.</p> <table border="1" style="margin-left: auto; margin-right: auto;"> <thead> <tr> <th>Activity</th> <th>Immediate Predecessors</th> <th>Duration (Weeks)</th> <th>Activity Cost (Rs. Lakhs)</th> </tr> </thead> <tbody> <tr> <td>A</td> <td>-</td> <td>8</td> <td>8</td> </tr> <tr> <td>B</td> <td>-</td> <td>2</td> <td>8</td> </tr> <tr> <td>C</td> <td>B</td> <td>5</td> <td>10</td> </tr> <tr> <td>D</td> <td>C</td> <td>6</td> <td>9</td> </tr> <tr> <td>E</td> <td>A</td> <td>4</td> <td>12</td> </tr> <tr> <td>F</td> <td>D,E</td> <td>4</td> <td>6</td> </tr> <tr> <td>G</td> <td>D,E</td> <td>1</td> <td>1</td> </tr> <tr> <td>H</td> <td>F</td> <td>3</td> <td>6</td> </tr> </tbody> </table> <p>If the indirect cost per week is Rs. 1 Lakh, find the total project cost.</p> | Activity | Immediate Predecessors | Duration (Weeks) | Activity Cost (Rs. Lakhs) | A | - | 8 | 8 | B | - | 2 | 8 | C | B | 5 | 10 | D | C | 6 | 9 | E | A | 4 | 12 | F | D,E | 4 | 6 | G | D,E | 1 | 1 | H | F | 3 | 6 | 25 | CO4 |
| Activity | Immediate Predecessors | Duration (Weeks) | Activity Cost (Rs. Lakhs) | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| A | - | 8 | 8 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| B | - | 2 | 8 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| C | B | 5 | 10 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| D | C | 6 | 9 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| E | A | 4 | 12 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| F | D,E | 4 | 6 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| G | D,E | 1 | 1 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| H | F | 3 | 6 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Q 9 | <p>Critically examine the contribution of Infrastructure, Energy & Transportation projects in the economic growth & development of a country.</p> <p>OR</p> <p>Discuss the role of Communication & Information Technology in managing new age projects, giving examples of some IT tools/software.</p> | 25 | CO4 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |