| Name: <br> Enrolment No: |  |  |
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| Course: <br> Program: <br> Course cod | UNIVERSITY OF PETROLEUM AND ENERGY STUDIES   <br> End Term Examination, May 2021   <br>    <br>  Project and Contract Management. Semester: II <br> MBA. LSCM Time: 03 Hours  <br> Max. Marks: 100   |  |
| 1. Each Question carries 5 Marks SECTION A( 30 Marks)2. Instruction: Complete the statement / Select the correct answer(s) |  |  |
|  |  | CO |
| Q 1 | The NPV of a project is Rs $60,000 /-$. If the present value of all cash inflows is Rs $1,00,000 /-$, the profitability index will be <br> a. 2 <br> b. 1.5 <br> c. 2.5 <br> d. None of above | CO2 |
| Q 2 | A task has been completed 30\% against scheduled $50 \%$. The budgeted cost of task is Rs 5000. Amount actually spent is Rs 2000. CPI is <br> a. 0.6 <br> b. 1.0 <br> c. 1.25 <br> d. 0.75 | CO2 |
| Q 3 | In PERT analysis, the standard deviation of critical activities of a project are 3, 4, 5, 5 and 5 respectively, the standard deviation of project completion will be <br> a. 24 <br> b. 15 <br> c. 10 <br> d. 5.5 | CO 1 |
| Q 4 | When time duration of an activity is deterministic we apply $\qquad$ , and when it is probabilistic we apply $\qquad$ in project execution analysis. | CO 1 |
| Q 5 | If BCWP is less than BCWS <br> a. The project is cost overrun <br> b. The project is cost underrun | CO 1 |


| c. Project is behind schedule <br> d. Project is ahead of schedule |  |  |  |  |  |  |  |
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| Q 6 | In project cost monitoring, the s-curve depicts the relation between: <br> a. Schedule completion and time. <br> b. Cumulative value and time. <br> c. Schedule completion and value resources. <br> d. resources and time |  |  |  |  |  | CO 2 |
| 1. Each question carries 10 marks <br> 2. Instruction: Write short / brief notes |  |  |  |  |  |  |  |
| Q 7 | Discuss the various factors considered in Project Selection process. Illustrate with an example |  |  |  |  |  | CO 4 |
| Q8 | A project requires an initial capital investment of Rs. 20,000,000. The capital requirement is met through a financial institution, which charges $11 \%$ annual interest rate. The projected annual cash inflows during the project life are: <br> There is an available opportunity of using intermediate cash inflows into another project, which has an IRR of $15 \%$. The salvage value at the end of project life is Rs. $25,00,000$ that will be available at the end of sixth year only. Calculate the Modified NPV (MNPV) for the project. <br> Also comment on the financial feasibility of the project |  |  |  |  |  | CO 2 |
| Q9 | What do you understand by Valid Contract? Discuss the tendering process in contracting with suitable example. |  |  |  |  |  | CO 4 |
| Q10 | Consider the above set of S curves for a project. Determine CPI, SPI, and critical ratio at week 10 and at project completion |  |  |  |  |  | CO3 |



