Name:

Enrolment No:



UNIVERSITY OF PETROLEUM AND ENERGY STUDIES End Semester Examination, May 2019

Course: Project Management

Program: BBA (DM, E-Commerce)

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

Course code: BBCG 108 Instructions: Use of calculator is allowed

SECTION A (Fill in the blanks)

| | | Marks | CO |
|-----|--|--------------|---------------------|
| Q 1 | a) PMBOK stands for b) A is a temporary endeavor undertaken to create a unique product, service or result. c) The critical activities in a project network have slack time. d) The full form of IRR is e) The final phase in project life cycle is f) CPM stands for g) If cost of capital =, then NPV becomes zero. h) In PERT, the time duration of project activities is i) A company executing project issues a, defining the project scope, the project goals, name the project manager, his directing authority soon after the appointment of project manager. j) An elaborate effort in above direction will produce | 2*10 = 20 | CO1, CO2, CO3 |
| | SECTION B (Write short notes on any four) | | |
| Q 2 | Project Manager | 5 | CO1 |
| Q 3 | Market Feasibility of Project | 5 | CO2 |
| Q 4 | Capital Cost | 5 | CO3 |
| Q 5 | Contract | 5 | CO4 |
| Q 6 | Tendering | 5 | CO4 |
| | SECTION-C (Answer any two questions) | | |
| Q 7 | Describe different phases of project life cycle with the help of life cycle curve. | 15 | CO1 |
| Q 8 | The government is considering a multi-purpose river valley project, which would involve construction of a dam, a reservoir, a powerhouse, and several irrigation canals. The project would supply water for irrigation, generate electricity and provide a measure of protection against floods. The project control board has gathered the following information. The project will require the following during the construction stage: Indigenous power equipment costing Rs. 200 million. | 15 | CO2 |

| 3. | 20,000 tons of steel produced indigenously and made available to the project | |
|-------|--|--|
| | at Rs. 6000 a ton. | |
| 4. | 350,000 tons of cement produced indigenously and made available to the | |
| | project at Rs. 800 a ton. | |
| | Other construction materials (sand, bricks, etc.) costing Rs. 100 million. | |
| 6. | 25 million man-days of unskilled labor for which the project control board has | |
| 7 | decided to pay a daily wage rate of Rs. 10. | |
| 7. | Skilled labor costing Rs. 100 million. | |
| Oı | nce commissioned, the operating and maintenance cost of the project would be | |
| | s. 35 million per year. | |
| | ne annual benefits expected from the project would be as follows: | |
| | 300,000 acres of land will be irrigated. | |
| | 120 million units of electricity will be generated for domestic use. | |
| 3. | Flood damages to the extent of Rs. 10 million will be saved annually. | |
| Tł | ne following additional information is available: | |
| | Power equipment produced indigenously is a tradable item whose FOB value | |
| | is \$ 15 million. | |
| 2. | A gift of \$ 10 million, available from a foreign agency, can be used for | |
| | acquiring imported equipment. This gift, however, is not project-tied. Hence, | |
| 2 | if it is not assigned to the project, it can be used for some other purpose. | |
| | The shadow price per dollar is Rs. 12, though the official price is Rs. 10. Steel is a tradeble item where EOP value is $\$$ 400 per ter | |
| | Steel is a tradable item whose FOB value is \$ 400 per ton. | |
| 5. | Cement is not a tradable item. One-half of the cement required for the project will come from the additional domestic production which has a cost of Rs. 700 | |
| | per ton; one- half of the cement required for the project will come from | |
| | diversion from other consumers who are willing to pay, on average, Rs. 1,200 | |
| | per ton. | |
| 6. | Other construction materials are non-tradable items. The requirement of the | |
| | project will be met by way of additional production. The cost of this production | |
| | will be Rs. 80 million. | |
| | The shadow price of unskilled labor is Rs. 5 per day | |
| 8. | | |
| | for their services. | |
| 9. | The operating and maintenance cost of Rs. 35 million reflects economic value as well. | |
| 10 | b. The water levy by the project control board would be Rs. 100 per acre. | |
| 10 | However, the value of additional output per acre, attributable to the water | |
| | supplied by the project, will be Rs. 400 a year. | |
| 11 | . The electricity tariff charged by the project control board would be 30 paise | |
| | per unit. The consumer willingness to pay, however, would be on an average, | |
| | 50 percent more than the tariff charged. | |
| 12 | . The project control board is not able to collect anything for the protection | |
| | provided against floods. | |
| Defin | e the costs and benefits from the private (Project Control Board's) and the | |
| | mic point of view. | |
| | · · · · · · · · · · · · · · · · · · · | |

| | components of project mana | SECTION-D | I to the | | 15 | CC |
|----------------------|-------------------------------|---------------------------|---------------------|---------------------------|----|----|
| The following | table gives the data on a pro | oiect. | | | | |
| ACTIVITY DESCRIPTION | | IMMEDIATE PREDECESSORS | DURATION (WEEKS) | TOTAL COST Rs. '000 | | |
| Н | Basic design | - | 10 | 100 | | |
| Ι | Hardware design for A | Н | 8 | 64 | | |
| J | Hardware design for B | Н | 6 | 96 | | |
| K | Drawings for B | J | 4 | 16 | | |
| L | Software specifications | J | 2 | 36 | | |
| М | Parts purchase for B | J | 4 | 84 | | |
| N | Parts purchase for A | Ι | 4 | 80 | | |
| 0 | Drawings for A | Ι | 5 | 50 | | |
| Р | Installation drawings | I,J | 5 | 60 | | |
| Q | Software purchases | L | 5 | 80 | 30 | CO |
| R | Delivery of parts for B | М | 5 | 0 | | |
| S | Delivery of parts for A | N | 3 | 0 | | |
| Т | Software delivery | Q | 3 | 0 | | |
| U | Assembly of A | O,S | 1 | 14 | | |
| V | Assembly of B | K,R | 5 | 80 | | |
| W | Test A | U | 2 | 24 | | |
| X | Test B | V | 3 | 36 | | |
| Y | Final Installation | P,W,X | 8 | 104 | | |
| Z | Final system test | Y,T | 6 | 66 | | |

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| | | | × × | in the blanks) | | Marks | CO |
|------------|--|-----------------------------|-----------------|-----------------|-------|--------------|-------------------|
| Q 1 | a) Triple constraints in project management are: Scope,& Cost. b) SCBA stands for c) The longest path in the project network is called d) The full form of EIA is e) The first phase in project life cycle is f) AACE stands for g) If NPV is less than zero, then project is h) In PERT network diagram, the activities are shown as i) The time phase cumulative cost curve is shaped. j) The two ingredients of project cost estimates are quantities & | | | | | 2*10 = 20 | C01 C02 C03 |
| | | | N B (Write shor | t notes on any | four) | | |
| Q 2 | Project Feature | s & Characteristic | S | | | 5 | CO1 |
| Q 3 | Social Impacts | of Projects | | | | 5 | CO2 |
| Q 4 | Cost Estimation | n | | | | 5 | CO3 |
| Q 5 | Force Majeure | | | | | 5 | CO4 |
| Q 6 | Purchase Order | • | | | | 5 | CO4 |
| t - | | | ON-C (Answer a | anv two questic | ns) | 5 | 0.04 |
| Q 7 | Briefly discuss | different techniqu | • | v 1 | - | 15 | C01 |
| - | - | • | 1 0 | | | 15 | COI |
| Q 8 | Consider the data of a project shown in the following table. | | | | | | |
| | Activity | Immediate predecessor(s) | Time (weeks) | Cost (Rs.) | | | |
| | Α | | 8 | 2000 | | | |
| | В | - | 10 | 4000 | | | |
| | С | А | 6 | 3000 | | 15 | CO2 |
| | D | А | 9 | 5000 | | | |
| | E | В | 10 | 2500 | | | |
| | F | В | 13 | 5000 | | | |
| | G | E | 5 | 1000 | 1 | | |

| Q 9 | • | dering is necessary and what are their types? Explain any two types of g process in detail. | | | | | CO4 |
|------|-----------------------|---|---------------------|--|------------------------|----|-----|
| | | | SECTION-D | | | | |
| Q 10 | and will co | | | | | | |
| | ACTIVITY ID | DESCRIPTION | PRECEDENCE | DURATION (WEEKS) | % AGE OF TOTAL COST | | |
| | А | Excavation and framing | - | N-Dne size of the house is 2,500 sq. feet, and the construction). The activities in the percentage of total cost are givenNCEDURATION (WEEKS) $\%$ AGE OF TOTAL COST424381326258171924 | | | |
| | В | Roof and Fireplace | А | 3 | 8 | | |
| | С | Wiring roughed in | А | 1 | 3 | | |
| | D | Plumbing roughed in | B,C | 2 | 6 | | |
| | Е | Siding on | D | 2 | 5 | 30 | CO3 |
| | F | Windows, insulation, walls, plaster and garage | Е | 8 | 17 | | |
| | G | | | 9 | | | |
| | Н | Plumbing fixtures installed | D | 2 | 4 | | |
| | J | Exterior paint, light fixtures, hardware installed | F,G,H | 6 | 10 | | |
| | K | Floors laid and finished | Н | 4 | 6 | | |
| | L | Carpet and trim installed | K | 1 | 4 | | |
| | М | Interior decoration | | | | | |
| | Prepare the baseline. | e project network diagram, cons | truction plan using | Gantt chart and | project cost | | |