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# KOLHAPUR INSTITUTE OF TECHNOLOGY'S, COLLEGE OF ENGINEERING (AUTONOMOUS), KOLHAPUR

(AFFILIATED TO SHIVAJI UNIVERSITY, KOLHAPUR)

Exam. Cell

## T.Y. B.Tech. (Computer Science & Engineering)

(Semester- V)

## MID SEMESTER EXAMINATION, OCTOBER- 2022

**Course Code :** UCSE0523

**Course Name :** Project Management

**Day and Date :** Tuesday , 11-Oct-22 **PRN :** 2021000768

**Time :** 10:30 AM To 12:30 PM **Max Marks:** 50

***Instructions:***

**IMP: Verify that you have received question paper with correct course, code, branch etc.**

*i) All questions are compulsory.*
*ii) Figure to the right indicate full marks.*
*iii) Assume suitable data wherever necessary.*

| | | Marks | B.L | CO's |
|---|---|---|---|---|
| **Q.1** | **Attempt any Two** | **16** | | |
| A | Discuss Triple Constraint of Project Management and draw project management Framework | **8** | 2 | CO1 |
| B | Prepare strategic planning using SWOT Analysis for identifying potential projects | **8** | 3 | CO2 |
| C | SOLVE–ROI | **8** | 5 | CO4 |

Exhibit A: Financial Analysis for Project Management Intranet Site Project-JWD Consulting business case

**Discount rate 8%**

Assume the project is done in about 6

| | 0 | 1 | 2 | 3 |
|---|---|---|---|---|
| Total Costs | 140,000 | 40,000 | 40,000 | 40,000 |
| Benefits | 200000 | 200000 | 200000 | 200000 |

| | | | | |
|---|---|---|---|---|
| **Q.2** | **Attempt any two** | **16** | | |
| A | Build WBS Dictionary and Scope Baseline for IT Upgrade Project | 8 | 3 | CO2 |
| B | Solve AOA diagram for following Project. | 8 | 3 | CO3 |

TABLE 6-2 Network diagram data for a large project

| Activity | Initial Node | Final Node | Estimated Duration |
|---|---|---|---|
| A | 1 | 2 | 10 |
| B | 1 | 3 | 12 |
| C | 1 | 4 | 8 |
| D | 2 | 3 | 4 |
| E | 2 | 5 | 8 |
| F | 3 | 4 | 6 |
| G | 4 | 5 | 4 |
| H | 4 | 6 | 8 |
| I | 5 | 6 | 6 |
| J | 5 | 8 | 12 |
| K | 6 | 7 | 8 |
| L | 7 | 8 | 10 |

| | | | | |
|---|---|---|---|---|
| C | Discuss the following : i) Project Charter ii) PDM diagrams | 8 | 2 | CO2 |

| | | | | |
|---|---|---|---|---|
| **Q.3** | **Attempt any three** | **18** | | |
| A | Discuss the systems view of project. Explain the three sphere model for systems management. | 6 | 2 | CO4 |
| B | Classify the four frames of Organizations. How can they help project managers understand the organizational context for their projects? | 6 | 2,,1 | CO1 |
| C | Make use of different approaches to develop a WBS. | 6 | 3 | CO2 |
| D | Demonstrate Critical chain Scheduling and PERT | 6 | 2 | CO2 |

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# T. Y. B.Tech. (Computer Science & Engineering) (Sem-V)

## END SEMESTER EXAMINATION, NOVEMBER- 2019

**Professional Elective – I Project Management (UCSE0523)**

PRN No. :

**Day and Date: Thursday, 28/11/2019** **Max. Marks- 100**

**Time: 02:00 PM to 05:00 PM**

***Instructions:***

**IMP: Verify that you have received question paper with correct course, code, branch etc.**

*i) All questions are compulsory.*
*ii) Figure to the right indicate full marks.*
*iii) Assume suitable data wherever necessary.*

| | | Marks | B.L | CO's |
|---|---|---|---|---|
| | | 16 | | |
| **Q.1** | **Attempt any Two** | | | |
| A | Explain Project Time Management and six main processes involved in it | 08 | 2 | CO1 |
| B | Summarize key work involved in each of the six processes for project integration management. | 08 | 2 | CO1 |
| C | Analyze Project Management knowledge areas with its tools and techniques. | 08 | 4 | CO2 |
| | | 16 | | |
| **Q.2** | **Attempt any two** | | | |
| A | Briefly explain the differences between functional, matrix, and project organizations. Describe how each structure affects the management of the project. | 08 | 2 | CO1 |
| B | Summarize the process of defining project scope in more detail as a project progresses, going from information in a project charter to a project scope statement, WBS, and WBS dictionary. | 08 | 2 | CO1 |
| C | Analyze the Critical Path Analysis in schedule development. | 08 | 4 | CO1 |
| | | 16 | | |
| **Q.3** | **Attempt any two** | | | |
| A | List and describe various types of cost estimates. | 08 | 1 | CO1 |
| B | Explain how earned value management (EVM) can be used to control costs and measure project performance. | 08 | 2 | CO1 |
| C | Write short note on<br>1) Response strategies for Negative risks and positive risks<br>2) Risk break down structure | 08 | 1 | CO3 |

| | | | | | |
|---|---|---|---|---|---|
| **Q.4** | **Attempt any two** | **16** | | | |
| A | List five reasons why organizations outsource. Why is there a growing trend in outsourcing, especially offshore? | 08 | 1 | CO1 | |
| B | List and explain the type of contracts in planning Procurements. | 08 | 2 | CO1 | |
| C | Illustrate the new features of Project 2010. How to do project management effectively using Project management tool. | 08 | 2 | CO2 | |
| **Q.5** | **Attempt any two** | **18** | | | |
| A | List the topics addressed in a risk management plan. Define 1) Contingency plan 2) Fallback plan | 09 | 1 | CO3 | |
| B | Develop a WBS for a sample project indicated below and elaborate the steps to do WBS in Project 2010 for the same.<br>"Suppose your college is considering to develop a new information system (web portal) that would allow the employees and student to access and maintain their own human resources – such as name, address, contact no, etc" | 09 | 3 | CO4 | |
| C | Interpret the Procurement management plan in detail. Explain the Procurement documents RFP (Request for Proposal) & RFQ. (Request for Quote) | 09 | 2 | CO1 | |
| **Q.6** | **Attempt any two** | **18** | | | |
| A | Summarize the three main categories of views with their view names and description in Project 2010. | 09 | 2 | CO2 | |
| B | Explain some of the basic principles of cost management. | 09 | 2 | CO1 | |
| C | Compare Qualitative Risk analysis and Quantitative risk analysis | 09 | 4 | CO3 | |

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(AFFILIATED TO SHIVAJI UNIVERSITY, KOLHAPUR)

## T.Y. B.Tech. (Computer Science & Engineering)

(Semester- V)

## END SEMESTER EXAMINATION, DECEMBER- 2022

**Course Code :** UCSE0523

**Course Name :** Project Management

**Day and Date :** Friday , 30-Dec-22 **PRN :** 2021000768

**Time :** 09:30 AM To 12:30 PM **Max Marks:** 100

***Instructions:***

**IMP: Verify that you have received question paper with correct course, code, branch etc.**

*i) All questions are compulsory.*
*ii) Figure to the right indicate full marks.*
*iii) Assume suitable data wherever necessary.*

| | | Marks | B.L | CO's |
|---|---|---|---|---|
| **Q.1** | **Attempt any two** | **16** | | |
| A | What is involved in project scope management and why is good project scope management so important on IT projects | 8 | 1 | CO1 |
| B | Discuss the systems view of project. Explain the three sphere model for systems management. | 8 | 2 | CO4 |
| C | Draw network diagram using Precedence diagramming method (PDM) for Project shown below. Discuss the best path and why? | 8 | 5 | CO2 |

TABLE 6-3 Network diagram data for a large project

| Activity | Initial Node | Final Node | Estimated Duration |
|---|---|---|---|
| A | 1 | 2 | 10 |
| B | 1 | 3 | 12 |
| C | 1 | 4 | 8 |
| D | 2 | 3 | 4 |
| E | 2 | 5 | 8 |
| F | 3 | 4 | 6 |
| G | 4 | 5 | 4 |
| H | 4 | 6 | 8 |
| I | 5 | 6 | 6 |
| J | 5 | 8 | 12 |
| K | 6 | 7 | 8 |
| L | 7 | 8 | 10 |

| | | | | |
|---|---|---|---|---|
| **Q.2** | **Attempt any two** | **16** | | |
| A | What is the role of the project manager? What are suggested skills for all project managers and for IT project managers? | 8 | 1 | CO1 |
| B | Discuss different approaches to develop a WBS. | 8 | 3 | CO4 |

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| | | | | | |
|---|---|---|---|---|---|
| **Q.5** | **Attempt any three** | **18** | | | |
| A | Determine the steps of Creating Summary Tasks for project scope management to Tasks in Microsoft office Project 2010. | 6 | | 5 | CO4 |
| B | Determine the steps of Establishing a Baseline Plan in Microsoft office Project 2010. | 6 | | 5 | CO4 |
| C | Explain the steps of calculating Earned Value Management in Microsoft office Project 2010. | 6 | | 5 | CO4 |
| D | Interpret the steps of Assigning Resources to Tasks in Microsoft office Project 2010 for Project Human Resource Management | 6 | | 5 | CO3 |
| **Q.6** | **Attempt any three** | **18** | | | |
| A | Infer Cost Estimation Tools and Techniques. | 6 | | 2 | CO1 |
| B | Identify how do organizations decide whom to send RFPs or RFQs? | 6 | | 3 | CO4 |
| C | Explain Monitoring and controlling risks | 6 | | 2 | CO3 |
| D | Illustrate-estimate at completion (EAC) and -Budget at completion (BAC) | 6 | | 2 | CO1 |

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| | | | | |
|---|---|---|---|---|
| C | Explain the following schedule development tools and concepts: Gantt Charts, Critical path method in detail. | 8 | 2 | CO4 |
| **Q.3** | **Attempt any two** | **16** | | |
| A | Evaluate the cost variance, schedule variance, cost performance index (CPI), and schedule performance index (SPI) for the project? | 8 | 5 | CO4 |
| | b. How is the project doing? Is it ahead of schedule or behind schedule? Is it under budget or over budget? | | | |
| | c. Use the CPI to calculate the estimate at completion (EAC) for this project. Is the project performing better or worse than planned? | | | |
| | d. Use the schedule performance index (SPI) to estimate how long it will take to finish this project. | | | |
| | Assume you have completed three months of the project. The BAC was $100,000 for this six-month project. Also assume the following: PV = $ 120,000 EV = $ 50,000 AC = $ 80,000 | | | |
| B | Design Probability/Impact Matrixes using risk factors | 8 | 3 | CO3 |
| C | There is a WBS for the project, as shown below: | 8 | 5 | CO3 |
| | 1. Project management 2. Hardware 2.1 Handheld devices 2.2 Servers 3. Software 3.1 Licensed software 3.2 Software development 4. Testing 5. Training and support 6. Reserves | | | |
| | **Estimate Sample Cost Estimate** | | | |
| **Q.4** | **Attempt any two** | **16** | | |
| A | Explain Request for Proposal (RFP) template. | 8 | 2 | CO4 |
| B | Outline Sample proposal evaluation sheet while conducting procurement management for selecting Proposal. | 8 | 2 | CO4 |
| C | Suppose your company is trying to decide whether it should buy special equipment to prepare some of its high-quality publications itself or lease the equipment from another company. Suppose leasing the equipment costs $240 per day. If you decide to purchase the equipment, the initial investment is $6,800, and operations will cost $70 per day. After how many days will the lease cost be the same as the purchase cost for the equipment? Assume your company would only use this equipment for 30 days. Should your company buy the equipment or lease it? | 8 | 3 | CO4 |

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# T.Y. B.Tech. (Computer Science & Engineering)

**(Semester- V)**

## MID SEMESTER EXAMINATION, OCTOBER- 2023

**Course Code:** UCSPE501

**Course Name:** Project Management

**Day and Date:** Friday , 06-Oct-23 **PRN:** 2122000318

**Time:** 09:30 AM To 11:00 AM **Max Marks:** 30

***Instructions:***

**IMP: Verify that you have received question paper with correct course, code, branch etc.**

*i) All questions are compulsory.*

*ii) Assume suitable data wherever necessary.*

| | | Marks | BL | CO |
|---|---|---|---|---|
| **Q.1** | **Attempt any two.** | **16** | | |
| **A** | Illustrate different knowledge areas in Project Management. | **8** | II | I |
| **B** | Summarize processes involved in Project Time Management. | **8** | II | I |
| **C** | Draw and explain work breakdown structure with suitable example. | **8** | II | I |
| **Q.2** | **Attempt any two.** | **14** | | |
| **A** | Define Network Diagrams? Network diagramming types. | **7** | I | II |
| **B** | Discuss Net Present Value analysis. | **7** | II | II |
| **C** | Draw the network diagram, determine the critical path and project completion time for the following project: | **7** | III | II |

| Activity | Time Estimate (Weeks) |
|---|---|
| 1-2 | 5 |
| 1-3 | 6 |
| 1-4 | 3 |
| 2-5 | 5 |
| 3-6 | 7 |
| 3-7 | 10 |
| 4-7 | 4 |
| 5-8 | 2 |
| 6-8 | 5 |
| 7-9 | 6 |
| 8-9 | 4 |

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