



United College  
Kumaripati, Lalitpur  
PRE - UNIVERSITY EXAM – 2080

Level: BCA (VII<sup>th</sup> Semester)

Time: 3 hrs.

**Course Title: Software Project Mgmt.**

F.M.: 60

P.M.: 24

**Date: 2080/11/20**

*Candidates are required to give the answer in their own words as far as practicable.  
The figures in the margin indicate full marks.*

**GROUP A**

**Attempt All Questions:**

**Tick the correct answer:**

**[10 x 1 = 10]**

1. Which of the following characteristics is specific to software projects?
  - A) Use of physical resources only
  - B) Strict adherence to predefined timelines
  - C) Tangible deliverables like buildings or machinery
  - D) Iterative development and continuous updates
2. What distinguishes a software project from other types of projects?
  - A) Use of raw materials and manufacturing processes
  - B) Emphasis on physical infrastructure development
  - C) Involvement of coding, programming, and algorithms
  - D) Sole reliance on manual labor for execution
3. What is a typical issue faced in software project management?
  - A) Excessive communication among team members
  - B) Scope creep leading to constantly changing requirements
  - C) Strict adherence to rigid timelines without flexibility
  - D) Overestimation of required resources
4. Which phase in the software project management process involves defining the project goals, scope, and stakeholders' expectations?
  - A) Execution phase
  - B) Planning phase
  - C) Monitoring phase
  - D) Closing phase

5. What is the primary purpose of the "Monitoring and Controlling" phase in software project management?
  - A) Initiating the project and defining its scope
  - B) Executing the project activities according to the plan
  - C) Tracking project progress and managing changes
  - D) Closing the project and delivering the final product
6. Which of the following qualities is essential for a Software Project Manager to effectively lead a team?
  - A) Proficiency in a single programming language
  - B) Technical expertise in all software development areas
  - C) Strong communication and leadership skills
  - D) In-depth knowledge of hardware components
7. In project scheduling, which activity calculates the earliest start and finish times for each task in a network diagram?
  - A) Forward pass
  - B) Backward pass
  - C) Critical path determination
  - D) Resource allocation analysis
8. Which method of project management is specifically useful for estimating time by considering optimistic, pessimistic, and most likely time scenarios for each task?
  - A) CPM (Critical Path Method)
  - B) PERT (Program Evaluation and Review Technique)
  - C) Agile project management
  - D) Waterfall project management
9. What is the primary purpose of creating a Work Breakdown Structure (WBS) in project management?
  - A) To assign resources to project tasks
  - B) To identify potential risks in the project
  - C) To define the project scope and deliverables
  - D) To allocate the project budget
10. What primary factor influences the accuracy of software estimation?
  - A) Length of the project schedule
  - B) Number of stakeholders involved
  - C) Precision of the programming language used
  - D) Clarity and completeness of project requirements



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**“Group-B”**

Attempt Any **SIX Question:**

[6\*5=30]

11. Difference between Software projects and Other Projects.
12. What is network diagram in terms of project scheduling? Difference between CPM and PERT.
13. What are the problems of over and under estimation in Software estimation? Explain
14. Explain in brief about cost-benefit analysis
15. Explain the process of Risk Management.
16. What is software quality? Explain the importance of Software Quality.
17. Explain software configuration management.

**“Group-C”**

Attempt Any **TWO** Questions:

[10\*2=20]

18. Explain detailly on importance and problems on software project management.
19. Explain various categories of risk with an appropriate example of each.
20. Write short notes on:  
Software Estimation Techniques  
ISO 9126

*ALL THE BEST*

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**Course Title: Cyber Law and Professional Ethics****Date: 2080/11/21**

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**GROUP A****Tick the correct answer:****[10 x 1 = 10]**

1. Explain privacy laws.

- a. Regulations governing the invasion of privacy
- b. Legal frameworks dictating the handling of personal information
- c. Laws promoting unrestricted data sharing
- d. Laws prohibiting encryption technologies

2. Explain court ruling.

- a. A decision made by a court after considering facts in a legal case
- b. A legislative act
- c. An executive order
- d. A recommendation by a legal expert

3. Explain the key privacy and anonymity issues.

- a. Concerns about efficient data collection
- b. Balancing security and privacy needs
- c. Promoting public disclosure
- d. Encouraging online tracking

4. What is surveillance?

- a. The right to privacy
- b. Systematic observation for monitoring, managing, or directing
- c. Promoting open communication
- d. Ignoring security concerns

5. What is first amendment rights?

- a. The right to bear arms
- b. Rights outlined in the Second Amendment
- c. Rights outlined in the First Amendment, including freedom of speech
- d. The right to privacy

6. Explain freedom of expression.

- a. The right to remain silent
- b. The right to express thoughts, ideas, and opinions without restraint
- c. The right to monopolize expression
- d. The right to government-controlled speech

7. What are the ethical issues associated with

software quality?

- a. Ethical issues are irrelevant in software development
- b. Issues related to releasing software with known defects
- c. Ignoring user feedback is an ethical practice
- d. Prioritizing aesthetics over functionality

8. What are contingent workers?

- a. Full-time permanent employees
- b. Temporary and part-time workers hired on a project basis
- c. Workers with no specific skills
- d. Workers with fixed-term contracts

9. Who are H1B workers?

- a. Workers with no specific skills
- b. Full-time permanent employees
- c. Workers with fixed-term contracts
- d. Foreign workers with specialized skills hired in the U.S.

10. Explain green computing.

- a. Ignoring environmental concerns in computing
- b. A focus on sustainable and eco-friendly computing practices
- c. A strategy to increase energy consumption in data centers
- d. A method to reduce software efficiency



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**“Group-B”**

Attempt Any **SIX Question:** [6\*5=30]

6. Explain the ways to respond cyber-attack.
7. Explain the ethical issues associated with social networking.
8. Explain the key issues in freedom of expression.
9. Summarize the Electronic Transaction Act of Nepal.
10. Explain the various strategies for developing quality software.
11. What are the ethical issues associated with green computing?

**“Group-C”**

Attempt Any **TWO Questions:** [10\*2=20]

12. How do you implement CIA at organizational, network, and application layer?
13. Discuss privacy protection. Explain the key privacy and anonymity issues.

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