

Software project Management/IT4027/B.Tech/7th semester/2019
AUTUMN MID SEMESTER EXAMINATION-2019

School of Computer Engineering

KALINGA INSTITUTE OF INDUSTRIAL TECHNOLOGY DEEMED TO BE
UNIVERSITY,

BHUBANESWAR-24

SUBJECT - Software Project Management

[IT4027]

Time: 1 Hour 30 Min

Full Mark: 20

Answer any four questions including question No.1 which is compulsory. The figures in the margin indicate full marks. Candidates are required to give their answers in their own words as far as practicable and all parts of a question should be answered at one place only.

Q.1.

[5*1]

- A) Describe the importance of Software project management.
- B) List out the ways of categorizing the software projects.
- C) Explain Software prototyping.
- D) Describe the problems with over and under software estimates.
- E) Define Cost-benefit analysis.

Q.2.

- A) Explain the major activities carried out by a software project manager and the order in which these are carried out. [2.5]
- B) Identify the major risks that could affect the success of a College payroll project and try to rank them in order of importance. [2.5]

Q.3.

- A) What is Step Wise project planning? List the products created by the Step Wise planning process. [2.5]
- B) What are the major shortcomings of the waterfall model? How have those shortcomings been overcome by the agile model? [2.5]

Q.4.

- A) Explain why discounted cash flow techniques provide better criteria for project selection than net profit or return on investment. [2.5]
- B) Identify the main types of personnel employed in an information systems department. For each stage of a typical IS developing project, list the types of personnel who are likely to be involved. [2.5]

Q.5.

- A) An invoicing system is to have the following transactions: amend invoice, produce invoice, produce monthly statements, record cash payment, clear paid invoices from database, create customer records, delete customer.
 - (a) What physical dependencies govern the order in which these transactions are implemented?
 - (b) How could the system be broken down into increments which would be of some value to the users? [2.5]
- B) Suppose you are the manager of a software project. Explain why it would not be proper to calculate the number of developers required for the project as a simple division of the effort estimate (in person-months) by the nominal duration estimate (in months). [2.5]