

KATHMANDU UNIVERSITY
End Semester Examination
18- January 2024

Marks Scored:

Level : B.E./B.Sc.

Year : IV

Exam Roll No. :

Time: 30 mins.

Course : COMP 401

Semester : I

F. M. : 10

Registration No.:

Date :

SECTION "A"

[20Q. × 0.5 = 10 marks]

Choose and encircle in the most appropriate option from each set of choices.

1. System from which one is an example of EPR system?
a. SAP b. Oracle c. both d. none
2. In which the software is checked to ensure that it is what the customer requires?
a. testing b. review c. validation d. verification
3. Which systems are often computationally intensive?
a. systems of systems b. data collection and analysis system
c. systems for modeling and simulation d. batch processing systems
4. Which one is the longest life-cycle phase in waterfall model?
a. requirement analysis and definition b. system and software design
c. implementation and unit testing d. none of the mentioned
5. In which level the organization must use the process and product measurements to drive process improvement?
a. managed b. defined
c. quantitatively managed d. optimizing
6. Which one is not an agile method?
a. DSDM b. Scrum c. IXP d. none of the mentioned
7. Sprints are usually of how many weeks?
a. 1-2 weeks b. 2-3 weeks c. 2-4 weeks d. 3-4 weeks
8. Who is not a reader of system requirements?
a. contractor manager b. system end-users
c. system architects d. client engineers
9. Which approach is now rarely used to write requirement specification?
a. design description language b. mathematical specifications
c. graphical notations d. structured natural language
10. The aim of which testing is to check that the system meets the requirements?
a. development testing b. release testing
c. user testing d. all of the mentioned

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SECTION "B"
[6 Q. × 4 = 24 marks]

Attempt *ANY SIX* questions. (Q. No. 4 is Compulsory).

1. Describe wilderness weather station.
2. With example explain software process improvement cycle.
3. With example explain equivalent partitioning and boundary value analysis. [2+2]
4. Briefly discuss on requirements management planning and requirements change management. [2+2]
5. Discuss on system procurement issues and procurement decision. [3+1]
6. How different factors influence in project management? Explain them. [1.5+2.5]
7. With diagram, explain ISO 9001 core processes.

SECTION "C"
[2 Q. × 8 = 16 marks]

Attempt *ANY TWO* questions. (Q. No. 8 is Compulsory)

8. Considering *Hydro-power Automation System*, suggest four (4) key requirements definition with their requirements specification. [2+6]
9. State a story for prescribing medications. With example of each one, write test case description for dose checking. [4+4]
10. Explain the structure of project plan. Describe project planning process. [4+4]

