

School of Information and Communication Technology	Subject : Management of Software Development	Final Exam 2023.1	ExamID
	Full Name : .....	StudentID: 20.....	<b>0010</b>
	Duration: <b>45 minutes</b>	Allow using hard-copy documents	STT :

Note: Circle to the correct option (B), (L2)

**Question 1. (1p)** A website design company is deploying a website with 10 static pages. However, customers asked the company to add new payment features. What is this problem that managers must control?

- A. Stackholder control  
B. Communication control  
C. Quality control  
D. Scope control

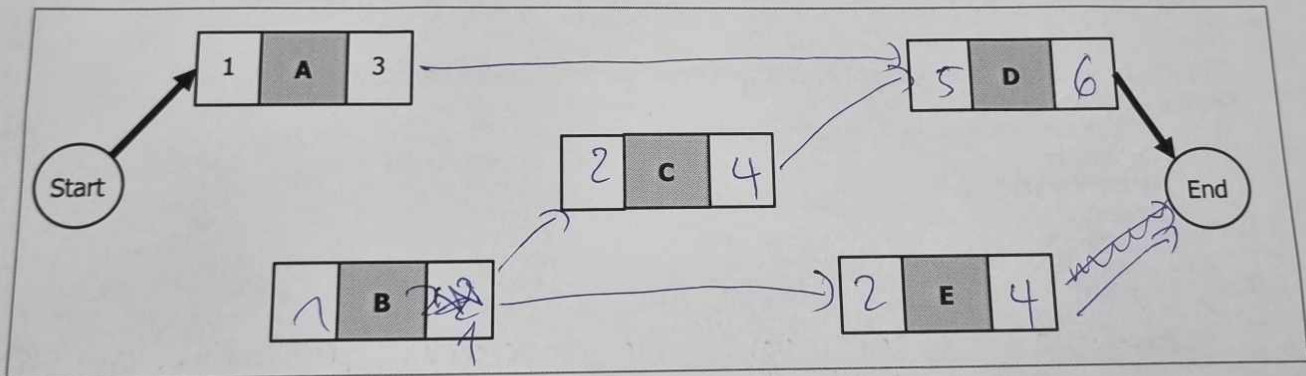
**Question 2. (1p)** The list below describes 6 steps to identify and address a risk. Rearrange them by correct time order?

- A. High impact, low probability  
B. HDD broken (Hard disk drive)  
C. Save a budget of 20 million VND and 2 working days for all storages issues.  
D. 5% failure for 3-year old HDDs. Project failed.  
E. Check S.M.A.R.T information of HDD to know their status.  
F. Backup data to cloud storage service

**Ans:** fill A, B, C, D, E, F into the gaps

Step 1: ..... Step 2: ..... Step 3: ..... Step 4: ..... Step 5: ..... Step 6: .....

**Câu 3.** A project has 5 subtasks as



Task Name	Prerequisite Task	Duration (day)	Start Date	End Date
A	-	3	1	3
B	-	1	1	1
C	B	3	2	4
D	A, C	2	5	6
E	B	3	2	4

- (1p)** In the diagram, **draw arrows** to show the dependency relationship between tasks.
- (1p)** Fill in the Start Dates and End Dates of remain tasks in the **table** and in the **diagram** both.
- (1p)** The critical path, the longest task flow, includes which tasks? BCD
- (1p)** If you want to speed up the process 1 day faster, which tasks you could reduce its duration to a day? C or D

**Câu 4. (1p)** In SOICT's educational philosophy there is an excerpt "We provide learners with knowledge via rigorous methodical academic lectures, well-crafted practice and experiment courses, and effective internship courses throughout the learning process."

Which type of leadership does the excerpt follow?

- ☐ A. Relationship-oriented behaviors
- ☒ B. Task-oriented behaviors
- ☐ C. Self-oriented behavior

**Câu 5. (1p)** Which methods of estimation based on Work Breakdown Structure? (multi-choices)

- ☒ A. Top-down estimation
- ☒ B. Bottom-up estimation
- ☐ C. Analogous estimation
- ☐ D. Parametric estimation

**Câu 6. (1p)** A project is described as below:

"If everything is okay, we will get the benefit of 80 million vnd. However, the project is just worth 20 million if team must work overtime and more wages. The good news is the benefit should be 110 million if the vender agrees to transfer those technology libraries to us."

How much is the benefit assumption that project manager using PERT to estimate

Ans:

or  
 Most optimistic estimation: MO = 110 million vnd  
 Most likely estimation: ML = 80 million vnd  
 Most pessimistic estimation: MP = 20 million vnd  
 → The benefit assumption:  $\frac{110 + 4 \cdot 80 + 20}{6} = 75$  (million vnd)

**Câu 7. (1p)** Learning "Management of Software Development" is also a project with its own risks. Please identify a risk and describe:

- Risk Name/Title in a short sentence
- Description:
- Probability (by %):
- Impact:
- Solution:

Ans:

- Risk name: limited insight into basic skills (programming, soft skill)  
 - Description: <sup>one</sup> student may not ~~will~~ prepare enough skill and knowledge such as communication, team work, adaptability  
 - Probability: 40%  
 - Impact: negative impact to personal performance and <sup>core</sup> lower the success possibility in a team work environment  
 - Solution: student should attend ~~on~~ several prerequisite classes such as Software Engineering, ITSS software Development, Soft skill