

SLIATE

SRI LANKA INSTITUTE OF ADVANCED TECHNOLOGICAL EDUCATION

(Established in the Ministry of Higher Education, vide in Act No. 29 of 1995)

Higher National Diploma in Information Technology Second Year, Second Semester Examination – 2016 IT4001- Project Management (Old)

Instructions for Candidates:
Answer any five (05) Questions
All questions carry equal marks

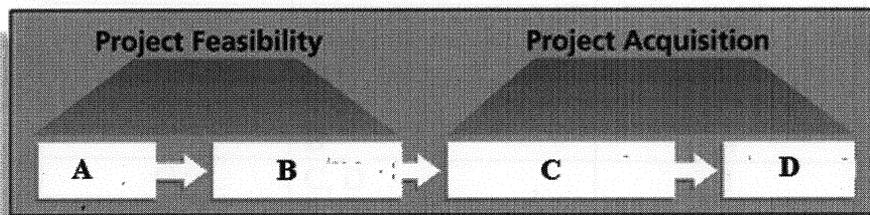
No. of questions : 08
No. of pages : 03
Time: Three (03) Hours

Question 01

- i. What is a project? List two (02) examples for projects. (05 marks)
 - ii. What is project management? (03 marks)
 - iii. What are the triple constraints of a project? (03 marks)
 - iv. Project management framework includes 9 knowledge areas. List them. (09 marks)
- (Total 20 marks)**

Question 02

- i. Formal project management avoids project failures. Write down six (06) advantages of using formal project management. (06 marks)
- ii. Identify phases of project life cycle. (A → D in the following figure) (04 marks)



- iii. Write one deliverable for each phase of the project life cycle. (04 marks)
 - iv. Define the term 'project stakeholders'. (03 marks)
 - v. List three (03) examples for stakeholders. (03 marks)
- (Total 20 marks)**

Question 03

- i. Draw two level work break down structure (WBS) for constructing a house. (06 marks)
- ii. List five (05) methods for selecting a project. (05 marks)

- iii. For a specific project, the cash flows for four (04) years are given below. Interest Rate is 10%.

Year	0	1	2	3	4
Cash flow	(750,000)	100,000	200,00	300,00	350,00

- a. Find the Net present Value (NPV) for this project. (06 marks)
 b. State whether the project is worth or not to execute in the next year. (01 mark)
 c. Justify your answer. (02 marks)

(Total 20 marks)

Question 04

- i. What is 'project risk management'? (03 marks)
 ii. Mention two types of risks which may arise in projects. (02 marks)
 iii. Briefly explain why it is important to have project risk management. (05 marks)
 iv. Write down four tools and techniques to identify the risks in a project. (04 marks)
 v. Draw a diagram to represent the communication process. (06 marks)

(Total 20 marks)

Question 05

- i. Draw an activity on arrow (AOA) network diagram for the project activities given in the following table. (10 marks)

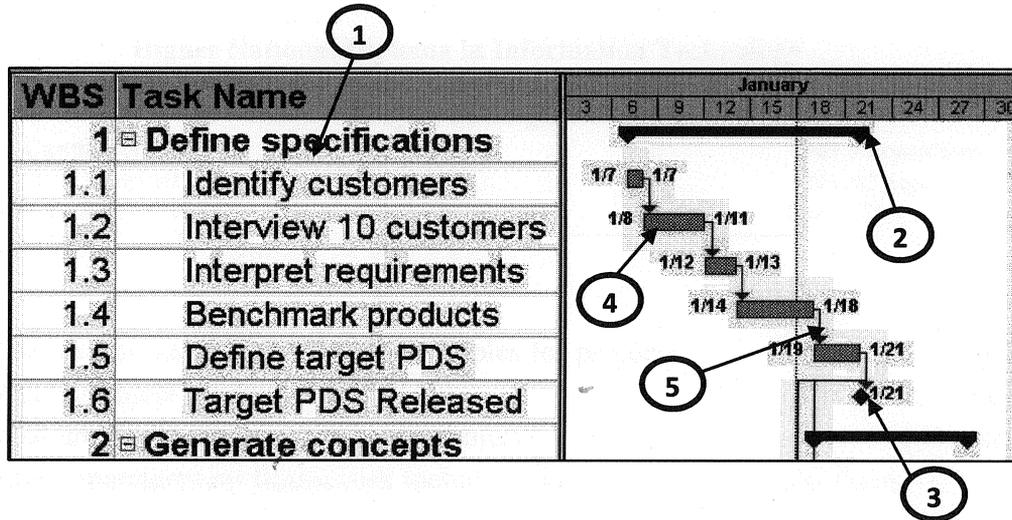
Activity	Preceding Activity	Duration (Days)
A	-	4
B	-	3
C	A	3
D	A	2
E	B	6
F	B	4
G	C, D	1
H	E	4
I	F	5
J	E, G	6
K	H, I	1

- ii. Write down the critical path of this project. (03 marks)
 iii. What is the minimum time required to complete this project? (02 marks)
 iv. Mention the effects of the following changes to the project.
 a. If task A delay by 2 days, what is the effect to task D? (03 marks)
 b. Task F finished 2 days earlier. (02 marks)

(Total 20 marks)

Question 06

- i. Write down four types of task dependencies (relationships) between activities, which are supported by MS project. (04 marks)
- ii. Name the Gantt chart symbols marked as 1 to 5 in the figure given below. (05 marks)



- iii. Write down four features of MS Project software. (04 marks)
- iv. Write three tires on the calendar view of MS project. (03 marks)
- v. What is project cost management? (04 marks)

(Total 20 marks)

Question 07

- i. What is meant by 'project human resource management'? (04 marks)
- ii. Briefly explain the importance of 'project monitoring'. (04 marks)
- iii. Draw a diagram representing the project control cycle. (04 marks)
- iv. What is project 'quality Management'? (04 marks)
- v. List the steps of project quality management. (04 marks)

(Total 20 marks)

Question 08

- i. Briefly explain the responsibility of the project manager. (06 marks)
- ii. Write down three (03) effective project management skills and three ineffective project management skills. (06 marks)
- iii. What is meant by motivation in project management? (03 marks)
- iv. Mention Maslow's hierarchy of needs to motivate people. (05 marks)

(Total 20 marks)