



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 – 2015

IT4001- Project Management

Instructions for Candidates:

Answer **any Five (05) questions**

All questions carry equal marks.

No. of questions : 08

No. of pages : 04

Time : Three (03) hours

Question: 01

- (i) Define the term “project”. (02 marks)
- (ii) What are the attributes of a project? (03 marks)
- (iii) What is project management? (02 marks)
- (iv) Write down general four (04) phases of project life cycle. (04 marks)
- (v) Project management framework includes 9 knowledge areas. List them.(09 marks)

(Total 20 marks)

Question: 02

- (i) Name the triple constraints of a Project. (03marks)
- (ii) Define the term “Stakeholders” in a project. Write three (03) examples for stakeholders in a project. (05 marks)
- (iii) Draw a Work Breakdown Structure for constructing a Web Site up to 2 levels. (05 marks)
- (iv) What is meant by Project Integration Management? (04 marks)
- (v) What are the three (03) steps of Project Integration Management process? (03 marks)

(Total 20 marks)

Question: 03

- (i) Mention five (05) advantages of using formal project management. (05 marks)
- (ii) Mention five (05) project management skills. (05 marks)
- (iii) Write three (03) effective characteristics and three (03) ineffective characteristics of a project manager. (06 marks)
- (iv) Give four (04) suggestions to improve the project management communication. (04 marks)

(Total 20 marks)

Question: 04

- (i) Mention five (05) methods of selecting a project. (05 marks)
- (ii) What is NPV analysis? (02 marks)
- (iii) A company decided to buy a factory which costs Rs.750 000/=. Based on the analysis, company forecasted the 4 years profit (cash basis) as follows.

Year	Cash flow
1	100,000
2	200,000
3	300,000
4	350,000

Assuming that capital (Rs.750 000/=) is invested at the beginning and discount rate is 10%, calculate the NPV for this project. (10 marks)

- (iv) What is payback analysis? (03 marks)

(Total 20 marks)

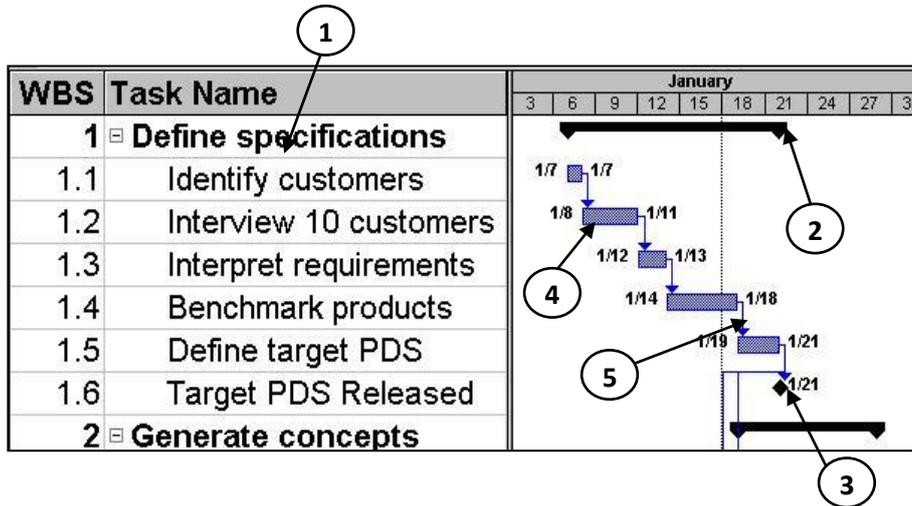
Question: 05

- (i) Define the term motivation. (03 marks)
- (ii) Mention three (03) ways to motivate people. (03 marks)
- (iii) What is Project Procurement Management? (04 marks)
- (iv) List five (05) Maslow's hierarchy of needs. (05 marks)
- (v) Power is the potential ability to influence behavior to get people to do things they would not otherwise do. Mention five (05) types of power. (05 marks)

(Total 20 marks)

Question: 06

- (i) Write three (03) features of MS project. (03 marks)
- (ii) What are the three (03) tires on the calendar view in MS project? (03 marks)
- (iii) What are the four (04) types of task dependencies (relationships) between activities in MS project? (04 marks)
- (iv) Name the Gantt chart symbols in the diagram below (1 to 5). (05 marks)



(v) Briefly explain three (03) basic Cost Estimation Tools and Techniques.(05 marks)

(Total 20 marks)

Question: 07

(i) Name the two (02) types of risk analysis. (02 marks)

(ii) Write three (03) risk identification methods. (03 marks)

(iii) What are the benefits a project can achieve by good project risk management? (05 marks)

(iv) Write steps of project cost management process. (04 marks)

(v) Draw a diagram representing the communication process. (06 marks)

(Total 20 marks)

Question: 08

- (i) Draw an Activity On Arrow (AOA) network diagram for the project schedule given in the following table. (10 marks)

Activity	Preceding Activity	Duration in days
A	-	5
B	-	2
C	B	2
D	A,C	6
E	A	3
F	E	2
G	E	2
H	G	3
I	D,F	2
J	I	8
K	I	4
L	H,K	3

- (ii) Find the critical path of the project. (04 marks)
- (iii) What are the effects of the following changes to the project and the critical path?
- a. Task B delay by 2 days (03 marks)
 - b. Task D finished 2 days earlier (03 marks)

(Total 20 marks)