

**Higher National Diploma in Information Technology****Second Year, First Semester Examination – 2016****HNDIT 2302 -IT Project Management**

Instructions for Candidates:

No. of Questions: 05

Answer only 04 Questions

No. of Pages: 04

Non Programmable calculators are allowed

Time: Two(02) hours

Q1 Suppose that you are working as an IT Project Manager in a Garment Factory in Sri Lanka. This organization implements manually, the most functionalities such as marketing, advertising recruitments and others. You want to launch a project to convert these manual processes into an automated online system. Project duration is 6 months and starting date is 01/10/2016.

- i. What is the product of this proposed project? (Marks 01)
- ii. Define the term "Project" and state down two main attributes of an IT project. (Marks 03)
- iii. State the main limitations of launching a successful project. (Marks 03)
- iv. Why is "a Project Work" selected for this problem rather than "a Functional Work"? (Marks 06)
- v. State the phases of project life cycle. Give one deliverable of each phase. (Marks 06)
- vi. Briefly describe the Knowledge areas in Project Management framework. (Marks 06)

(Total Marks 25)

Q2

- i. Briefly explain the Project Integration Management processes. (Marks 12)
- ii. Imagine that you are the project manager of a pharmaceutical company. The company management wishes to expand some areas of the company. The project portfolio management team needs to choose a project to initiate. What are the methods for selecting projects? (Marks 04)

- iii. For each row on the following chart, enter the letter of the project you would select if the following information was provided. Give reasons for your each selection. (Marks 09)

	Project X	Project Y	Which project would you select?	Reason
NPV	Rs. 95,000	Rs. 75,000		
IRR	13 percent	17 percent		
Payback period	16 months	21 months		

(Total Marks 25)

Q3

- Name three scope management processes. (Marks 03)
- Name three approaches to develop Work Breakdown Structures. (Marks 03)
- Briefly explain how software can be assisted in Project Scope Management. (Marks 04)
- The sales department in ABC company, which has their own in-house sales system, is being relocated to new offices where they will be a new server-based sales database system. The IT section has set out an outline plan for the IT aspects of the move, with 9 main tasks (with estimated durations):
 - Draw network diagram for data given in the following table. (Marks 05)

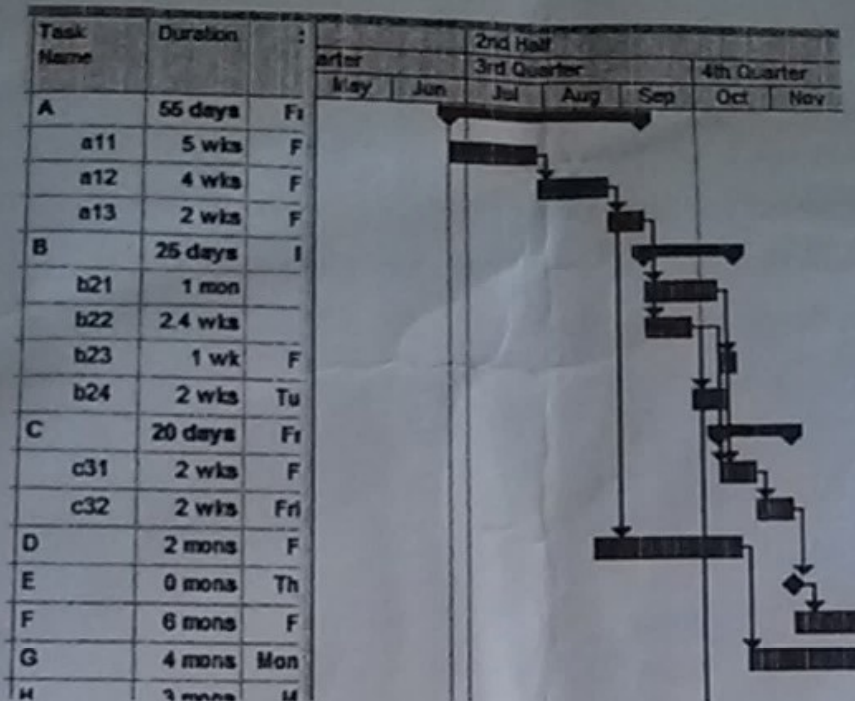
Activity	Description	Duration (weeks)	Dependency on activity
A	Order and deliver the new database system and server	3	-
B	Design and install the network infrastructure	5	-
C	Order, deliver and install new PCs and printers	2	-
D	Test the database system, server and network	3	A
E	Test the PCs with the server and network	4	C
F	Copy existing sales data to the new database system	4	E
G	Copy other existing PC-software to the new PCs	5	D
H	Test all software and database on the new PCs and server	4	G
I	Train users	6	B

- b). Find the critical path
 c). Find the minimum time that is need to finish the project
 v. Answer the following question using given "Gantt chart"

(Marks 04)

(Marks 03)

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Name one task for each of the following:

- Summary Task
- Task with Progress 100%
- Milestone

(Marks 03)

(Total Marks 25)

Q4 "Cost and quality managements are other trouble spots for IT projects. Both ensure to develop well fitted software within the budget"

- What is Project cost management? (Marks 03)
- Name three basic tools and techniques for cost estimating. (Marks 03)
- State three Cost Categories Related to Quality. (Marks 03)
- The size of a development project is 15000 Line of Codes and it has been evaluated as simple. Find the value for average staff and productivity using basic COCOMO model.

(hint: $E = 2.4 \times (\text{size})^{1.05}$ $TDEV = 2.5 \times (E)^{0.38}$) (Marks 08)

- v. Briefly explain, the ways of improving quality in IT projects. (Marks 08)

(Total Marks 25)

Q5

- i. What is meant by Project Human Resource Management and Project Procurement Management? (Marks 06)
 - ii. Briefly explain three processes, included in Project Communications Management (Marks 06)
 - iii. Briefly explain the following:
 - a) Maslow's Hierarchy of Needs
 - b) Statement of Work (SOW) (Marks 06)
 - iv. Discuss how Project Communications can be improved. Use at least three factors and explain them. (Marks 07)
- (Total Marks 25)**