Hajee Mohammad Danesh Science and Technology University, Dinajpur Department of Computer Science and Engineering B.Sc. (Engineering) in CSE

Semester Final Examination 2018 (Jan-Jun)
Level 4 Semester I, Course Code: CSE 409, Credit: 3.0
Course Title: System Analysis and Design

Time: 3 Hours

Total Marks: 90

[N.B. The figure in the right margin indicates the marks for respective question and Split answer of any question is unacceptable]

Section-A Answer any THREE

1	. a) Define system. What are the elements of a system? Explain.	6
	b	What categories of information are relevant to decision making in business? Relate	5
		each category to the managerial level and an information system.	
	c)	Define system analyst. List out the main roles of a system analyst.	4
2.	. a)	Why is a system proposal so crucial for system design? Explain.	4
	b)	When does an analyst terminate a project? How does it tie in with post-implementation? Explain.	5
	c)	Discuss the concepts of MIS and DSS. How are they related? How do they differ?	6
3.	a)	Define module coupling.	1
	b)	Why is it difficult to determine user requirements? Illustrate.	4
	c)	Elaborate on the technical and interpersonal skills required of systems analysts. When	6
		is one skill favored over the other? Why?	
	d)	What points should be considered in constructing a data dictionary? Be specific.	4
١.	a)	Explain the difference(s) between (i) structured and unstructured interviewing and (ii)	6
		open-ended and closed questions. Give an example of each.	U
	b)	Define structured analysis. If you were to summarize the attributes of structured	5
		analysis in four short sentences. What would you say?	5
	c)	"A project manager must be the kingpin of personnel motivation." Do you agree?	4
		Discuss in detail	-7

Section-B Answer any THREE

i.	a)	What traditional information gathering tools are available for the analyst? Explain any	6
		two of the tools briefly.	
	b)	How do not present value and present value analysis differ? Illustrate.	4
	c)	Discuss the various training aids used for training users on a new system.	5
2.	a)	Explain various types of feasibility studies that the analyst should consider.	6
	b)	What is a Gantt chart? How would you develop one? How does it differ from a PERT	5
		chart? Explain.	
	c)	Write short note on system models.	4
3.	a)	"Structured design provides the best partitioning of a program into small, independent	5
	, ,	modules organized in a top-down manner." Do you agree? Illustrate.	
	b)	Discuss the steps for establishing a system project. Which step do you think is the most	6
		critical? Why?	4
	c)	Distinguish between System maintenance and enhancement.	7
_		Define quality assurance. What levels of quality assurance must a system meet?	5
4.	a)		
		Explain. Define system security. List and briefly explain the control measures in system	6
	b)	Define system security. List and briefly explain the	
		security.	4
	c)	Distinguish between the following:	
	٠,	Distinguish between the following. (i) Physical and abstract systems (ii) Tangible and intangible benefits	
		(i) I hydrea-	