



Date: 02nd April, 2019

Time: 1.30 p.m. to 3.30p.m.

Answer 04 Questions Only.

Q1)

- a) Provide four (04) characteristics of information and briefly explain two*(02) of them?
- b) "*Management*" is one of the key elements in the "*Dimension of Information System*". Briefly explain what kind of job role a company expects from the Management?
- c) "*Information Technology has become one of the largest components of capital investment in an organization*". Comment on this statement.

Q2)

- a)
 - i. Identify the four (04) categorizations of systems in an organization.
 - ii. Describe how to obtain data for the four system categories mentioned above.
- b)
 - i. There are three (03) major categories of Information Systems at different management levels. Draw a diagram and explain how these three types are used in the above mentioned four system categories.
 - ii. Give three (03) system based examples to elaborate, "how the bottom level of an organization collects their data from the ground level"?
- c) "*Most of the executive support Systems must support the unstructured questions in an Organization.*" Comment on this statement.

Q3)

The cost of security measures must always compare with the benefits received. The optimal level of security expenditure is when the combined cost of security measures and financial loss is minimized. Additional expenditure on security measures beyond a certain point is not likely to be cost effective.

- a) What are the three (03) main things we should consider to find the optimal security expenditure to minimize the security cost?
- b) What are the "Application controls" used in industries and briefly explain two (02) of them?
- c) Describe what a digital signature is and how it works.

Q4)

- a) There are two main kinds of problem types available in “*decision making and decision support systems*”. Identify them and describe one (01) of them?
- b) What are the four (04) organizational structural changes made by the Information Technology and describe two (02) of them?
- c) “*Business process re-engineering (BPR) is a customer-focused approach. It challenges managers and staff to rethink the way they do things to maximize business effectiveness.*” Comment on this statement.

Q5)

- a) ABC (pvt) LTD is a software company in Sri Lanka. They deliver custom made solutions for their customer requirements. One of their customers has requested them to develop a software within a short time period. According to the customer, they don't have enough time to work with requirement analysis of the system.

As a Project manager, what is the best system building approach you would suggest to the company? Discuss your answer.

- b)
 - i. What are the common tools used by project managers to design their projects?
 - ii. Briefly explain the benefits of the above tools in general?
- c) “*User involvement in the design and development of an information system has a positive impact to the success of a software project*”. Comment on this statement.

Q6)

- a) What are the five (05) morale dimensions of the information age and describe three (03) of them?
- b) M-Commerce is one of the commonest and easiest methods to connect with the world. Provide three (03) types of M-Commerce services and provide an example for each.
- c) With company domain knowledge, firms become more efficient and effective in their use of scarce resources. Without that knowledge, firms become less efficient and less effective in their use of resources and ultimately fail. As a manager of a company, suggest a solution/method to keep their valuable knowledge with easy access.

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