

Indian Maritime University
(A Central University, Govt. of India)
MBA-International Transportation and Logistics Management/
Port and Shipping Management
PG22T2203/PG21T2203 (Semester II)
Management Information System
May/June 2018 End Semester Examinations

Time: 3 Hours
Date: 30.05.2018

Max Marks:60
Pass Marks:30

SECTION A

12 X 1=12 Marks

Answer all the questions
All the questions carry equal marks

1. Which of the following is the characteristic of decision support system?
 - a. It have Models or formulas that enable sensitivity analysis, what if analysis, goal seeking, and risk analysis
 - b. It contains data from multiple sources like internal and external sources plus data added by the decision maker who may have insights relevant to the decision situation.
 - c. Both a & b
 - d. None of these

2. The IT management concerns does not include _____
 - a. Business intelligence
 - b. Business agility and speed to market
 - c. Business process reengineering
 - d. Business productivity and cost reduction

3. With which of the following standards do the users can get 4G wireless connectivity?
 - a. WiMAX
 - b. LTE (Long-Term Evolution)
 - c. Both a & b
 - d. None of these

4. Data integrity means _____
 - a. Integrating, matching, or linking data from disparate sources
 - b. Correcting, standardizing, and verifying the integrity of the data
 - c. Checking and controlling data integrity over time
 - d. Enhancing data using information from internal and external data sources

5. In Information technology, VPNs stands for _____
 - a. Virtual Public Networks
 - b. Virtual Protocol Networks
 - c. Virtual portable networks
 - d. Virtual Private Networks

6. The Zombies which can be commanded to monitor and steal personal or financial data is called as _____
 - a. Spam
 - b. Spyware
 - c. Adware
 - d. Phishing

7. OLTP databases are design to
 - a. break complex information into simple data table for analyzing
 - b. combine all data together
 - c. collect data from different sources through online
 - d. process limited transactions

8. Which among the following is the most commonly used way of paying for online advertising?
 - a. Cost Per Impression
 - b. Cost per click
 - c. Cost per Action
 - d. All the above

9. Which of the following is also referred to as on-demand computing, utility computing, or hosted services?
 - a. Platform as a service (PaaS)
 - b. Software as a service (SaaS)
 - c. Infrastructure as a service (IaaS)
 - d. Database as a service (Daas)

10. PCIDSS stands for
 - a. Payment card industry data security standard
 - b. Payment card industry dot security standard
 - c. Payable card industry data security standard
 - d. Payable card industry dot security standard

11. _____ refer to a category of information systems that integrate internal business processes and improve collaboration with external business partners.
 - a. IT business alignment
 - b. Enterprise application integration
 - c. Enterprise system
 - d. Enterprise resource planning

12. Which of the following does not offer BPM solutions and support services to the organization.
 - a. Appian
 - b. IBM
 - c. Oracle
 - d. None of the above

SECTION B**5 X 4 = 20 Marks**

Answer any 5 out of 7 questions
Each answer should not exceed 200 words

13. Define data analytics? Explain its process and how it benefits companies?
14. Describe the major components of IT infrastructure? Explain the characteristics of an IT infrastructure to be considered while deciding on acquiring the components.
15. Explain document management system and its uses.
16. List out the objectives of cyber security and write about its importance in today IT world?
17. Discuss the concept of location based services? Explain the pre-requisites to provide location based services.
18. Briefly explain the limitation and challenges related to mobile intelligence.
19. What do you meant by Business process? Explain in detail the stages of business process life cycle.

SECTION C**4 X 7 = 28 Marks**

Question No. 20 is compulsory
Answer any 3 out of 5 remaining questions
Each answer should not exceed 500 Words

20. Case Study

AUTOMATING RESIDENT WELFARE ACTIVITIES

The Resident Welfare Association of a Colony in South Delhi has a membership of 25,000 families. The purpose of the organisation is to provide welfare to the residents of the colony. They take care of security services, utility help in terms of electrician, plumber, sweeper etc. and some financial support to the families who are in need. The association keep organising the educational cum cultural workshops from time to time. During festive season, the association also organises the get-to-gathers. Members of the association are supposed to pay an annual membership fee of Rs.10,000/-. Association also receives additional funds from government schemes and also from the business peoples.

The book-keeping work for the association is handled by the elected treasurer, Bobby George.

The members of the welfare association are elected every year on the basis of open polls. But Bobby win the position unopposed every year as no one wants to take over the tedious and time-consuming job of managing money and tracking memberships. Each governing body member of the association is paid a stipend of Rs. 10,000 per month. The colony members however, are not very happy with Bobby's performance.

Association already has a computer system based solution to track the billing and receipt of funds. But this system was developed in 1990 by one of the resident who was pursuing his Computer Science degree at IIT Delhi. The system is based on Foxpro-based data management system. Since Foxpro has become outdated, because of which no one is able to maintain the system properly.

The existing system takes lot of time to process the data. Member queries are not answered easily. Sometimes it takes a couple of hours to find the information needed to answer the question. Often, they have to perform calculations manually since the system was not programmed to handle certain types of queries. When member information is entered into the system, each field is presented one at a time. This makes it very difficult to return to a field and correct a value that was entered. Sometimes a new member is entered but disappears from the records. The report of membership used in the workshops and other events are generated in different formats.

Association has decided to upgrade the system, rather develop the new system which is scalable. They hire you to do this project.

QUESTIONS:

1. What requirements analysis strategy or strategies would you recommend for this situation?
2. What are the different data attributes you would collect to maintain update data about members and events?

3. After developing the system, what system conversion strategy would you adopt?

Answer Any 3 out of 5 Questions

(3x 7= 21 Marks)

21. Draw a diagram showing the layers on which the virtual machines run and explain the types of virtualization and characteristics of Virtualization.
22. Write a note on IT vulnerabilities and explain the elements which can create IT vulnerabilities.
23. Describe the concept of e-business and explain the types of market where e-business can participate with suitable examples for each type.
24. Define Data visualization and Data discovery. Explain the trends and characteristics of data visualization.
25. Explain briefly the systems development life cycle and its stages.
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