Roll No. ....

Time allowed : 3 hours   *Maximum marks : 100*

Total number of questions : 6   *Total number of printed pages : 4*

NOTE : *Answer **ALL** Questions.*

1. M/s ABC Ltd. is a consumer electronics item manufacturing company. The management of the company wants to use advanced IT system solution to enhance its presence in the market. Therefore the company hired a consultancy firm for taking services in the field of using advanced internet technologies and Database solutions. Further, the company wants to upgrade its existing Management Information System (MIS) for better usage of market information and competitive advantage. The top management of the company also want to expand business of the company by entering into e-commerce and m-commerce businesses. Therefore, company needs to take the service of consultant for upgrading the software system of the company using advanced application software. The top and middle management of the company held various meetings with the consultants to arrive at complete restructuring of the IT systems of the company. Assuming that you are a representative of consultancy firm hired by M/s ABC Ltd., answer the following, in brief :

    (*a*)   What are the requirements that new Database Management System (DBMS) should meet ?

    (*5 marks*)

    (*b*)   List and explain any *five* examples of application software.

    (*5 marks*)

    (*c*)   Describe the various elements of e-commerce.

    (*5 marks*)

    (*d*)   List the major purpose that will be fulfilled by providing information to all levels of management through a well defined MIS ?

    (*5 marks*)

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Attempt all parts of either Q. No. 2 or Q. No. 2A

2. (*a*) Comment on the punishment for publishing or transmitting obscene material in electronic form as stated in Information Technology (Amended) Act, 2008.

   (*b*) Why information system is so important in a business management ? Briefly explain how system performance control is a major activity of information system.

   (*c*) What is Network card ? Briefly explain cache memory of the computers.

   (*d*) Explain the operational characteristics of a good software.

   (*4 marks each*)

OR (Alternate question to Q. No. 2)

2A. (*i*) What are the functions and responsibilities of Database Administrator regarding database management ?

   (*ii*) Algorithm is a set of well defined rules for the solution of a problem in finite number of steps. What are the major considerations in design of algorithm ?

   (*iii*) List the major factors on which the success of e-supply chain depends.

   (*iv*) Discuss the impact of computers and MIS on middle level management.

   (*4 marks each*)

Attempt all parts of either Q. No. 3 or Q. No. 3A

3. (*a*) Explain in detail the various functions performed by DBMS to ensure the integrity and consistency of the data in the database.

   (*4 marks*)

   (*b*) What do you understand by a Computer Language ? Explain its different categories.

   (*4 marks*)

(*c*) What are the strategies required to adopt for successful implementation of Intranet in the company ?

(*4 marks*)

(*d*) Briefly discuss any *four* characteristics of information required for Supervisory planning.

(*4 marks*)

OR (Alternate question to Q. No. 3)

3A. (*i*) Explain the acknowledge of receipt of electronic record as per the Information Technology (Amended) Act, 2008.

(*ii*) In Information Systems what type of information is required by Top Management for strategic decision making ?

(*iii*) What technology specific factors to be evaluated for viability during the initial assessment phase prior to developing an automation project ?

(*iv*) Describe the intermediate system security measures for Authentication and Authorisation.

(*4 marks each*)

4. (*a*) List the vital features of Business Systems module of ERP.

(*b*) Highlight and discuss the specific advantages which gives business value to Enterprise Resource Planning.

(*c*) Define G2B model of e-Governance. What kind of information is shared through G2B or B2G model ?

(*d*) Assuming that you are a member of National e-Governance Planning (NeGP) Implementation Committee. Explain the vital elements to be incorporated by you in the approach and methodology for proposed e-Governance application adapted for NeGP.

(*4 marks each*)

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5. (*a*) A company has appointed marketing professionals at a monthly salary of ₹ 50,000. At the time of their annual appraisal all these professionals are entitled for an increment in their monthly salary based on their performance to be evaluated on a 100 marks scale as per details given below :

 • Performance marks less than 70, then increment to be 10% of salary

 • Performance marks from 70 to 85, then increment to be 20% of salary

 • Performance marks more than 85, then increment to be 30% of salary

Draw a flow chart to print the details like name, performance marks, monthly increment amount and revised salary of one professional.

(*b*) Explain various steps to be followed for successful implementation of ERP in a company.

(*8 marks each*)

6. Write short notes on the following :

(*a*) Significance of System Audit

(*b*) Categories of Cloud Services

(*c*) Workstation and Personal Computers

(*d*) Mail Protocols POP3 and SMTP.

(*4 marks each*)

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