



UNIVERSITY OF COLOMBO, SRI LANKA

UNIVERSITY OF COLOMBO SCHOOL OF COMPUTING

DEGREE OF BACHELOR OF INFORMATION TECHNOLOGY  
Academic Year 2009/2010 – 1<sup>st</sup> Year Examination – Semester 2

***IT2404: Systems Analysis and Design***  
***Multiple Choice Question Paper***

**8<sup>th</sup> August 2010**  
**(TWO HOURS)**

**Important Instructions :**

- The duration of the paper is **2 (two)** hours.
- The medium of instruction and questions is English.
- The paper has **50 questions** and **14 pages**.
- All questions are of the MCQ (Multiple Choice Questions) type.
- All questions should be answered.
- Each question will have 5 (five) choices with **one or more** correct answers.
- All questions will carry equal marks.
- There will be a penalty for incorrect responses to discourage guessing.
- The mark given for a question will vary from 0 (*All the incorrect choices are marked & no correct choices are marked*) to +1 (*All the correct choices are marked & no incorrect choices are marked*).
- Answers should be marked on the special answer sheet provided.
- Note that questions appear on both sides of the paper.  
If a page is not printed, please inform the supervisor immediately.
- Mark the correct choices on the question paper first and then transfer them to the given answer sheet which will be machine marked. **Please completely read and follow the instructions given on the other side of the answer sheet before you shade your correct choices.**

1) Information Systems can be classified according to the functions they serve. Which of the following is are correct?

- (a) Transaction processing systems process business transactions such as orders, payments and reservations
- (b) Management information systems use the transaction data to produce information needed by managers to run the business.
- (c) Decision support systems capture and reproduce the knowledge of an expert problem solver or decision maker and simulates the thinking of that expert.
- (d) Communication and collaboration systems enhance communication and collaboration between people, both internal and external to the organization.
- (e) Executive information systems help employees create and share documents that supports day-to-day office activities.

2) A feasibility study is carried out

- (a) before commencing the system development.
- (b) once the system is analyzed and designed.
- (c) throughout the system development life cycle
- (d) to measure how beneficial or practical an information system will be to an organization.
- (e) to tell the organization's managers how the system will function.

3) Identify the possible values and benefits of Information Systems.

- (a) Reduce Business Costs
- (b) Increase Efficiency
- (c) Improve Decision Making
- (d) Better Compliance with Regulations
- (e) Fewer Mistakes

4) Stakeholders for Information Systems can be broadly classified into five groups. Identify the correct classification.

- (a) System Users, System Owners, System Operators, Systems Analysts , and System Builders
- (b) System Users, System Programmers, System Operators, Systems Analysts , and System Builders
- (c) System Users, System Owners, System Operators, Systems Analysts , and System Programmers
- (d) System Users, System Designers, System Operators, Systems Analysts , and System Builders
- (e) System Users, System Owners, System Designers, Systems Analysts , and System Builders

5) Each of the blanks labelled **A – E** of the paragraph given below has to be filled with the most appropriate word selected from the phrases labelled (i) – (vi).

- (i) objects
- (ii) data
- (iii) behaviour
- (iv) attributes
- (v) an object
- (vi) a state

Systems consists of .....**A**....., where a/an .....**B**..... is something that is or is capable of being seen, touched, or otherwise sensed and about which users store ....**C**..... and associate .....**D**.....The data or .....**E**..... , represent characteristics of interest about an object.

|     |          |          |           |           |           |
|-----|----------|----------|-----------|-----------|-----------|
| (a) | A – (i)  | B – (iv) | C – (vi)  | D – (iii) | E – (ii)  |
| (b) | A – (iv) | B – (i)  | C – (ii)  | D – (vi)  | E – (iii) |
| (c) | A – (i)  | B – (v)  | C – (iii) | D – (ii)  | E – (iv)  |
| (d) | A – (i)  | B – (v)  | C – (ii)  | D – (iii) | E – (iv)  |
| (e) | A – (iv) | B – (i)  | C – (v)   | D – (ii)  | E – (iii) |

6) Which of the following is/are traditional, basic system development phases?

|                        |                      |                           |
|------------------------|----------------------|---------------------------|
| (a) Project Management | (b) Systems Analysis | (c) System Implementation |
| (d) Process Management | (e) Systems Design   |                           |

7) In addition to having formal systems analysis and design skills, a systems analyst must develop or possess other skills, knowledge and traits to complete the job.

Which of the following is /are considered as such skills, knowledge and traits ?

|   |
|---|
| (a) Working knowledge of information technologies           |
| (b) Computer programming experience and expertise           |
| (c) General knowledge of business processes and terminology |
| (d) General problem solving skills                          |
| (e) Systems programming skills                              |

8) A non technical pictorial representation that shows what a system is or does is known as a

|                    |                          |                   |
|--------------------|--------------------------|-------------------|
| (a) physical model | (b) implementation model | (c) logical model |
| (d) business model | (e) data flow model      |                   |

9) A model that shows not only what a system is or does but also how a system is physically and technically implemented is called a

|                    |                     |                      |
|--------------------|---------------------|----------------------|
| (a) logical model  | (b) physical model  | (c) conceptual model |
| (d) business model | (e) technical model |                      |

10) Which of the following is/are correct regarding the data flow diagrams (DFD)?

- (a) It is a diagram that represents non technical details in a system.
- (b) Several processes in a DFD might be executing or working simultaneously.
- (c) DFDs show the flow of data through the system.
- (d) The arrows in a DFD represent pointers to the next process or operation in an algorithm which may include looping and branching.
- (e) Processes on a DFD can execute only one at a time.

11) Some questions related to data flow diagrams (DFDs) with possible answers are given below.

- (i) Q. Are there a standard set of symbols used for drawing DFDs?  
A. No. There are several competing symbol sets.
- (ii) Q. How many symbols used in DFDs?  
A. There are only three symbols and one connection.
- (iii) Q. What is an external agent?  
A. It defines a person, organization unit, system, or an organization that interact with a system.

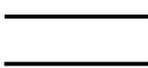
Which of the above pairs is/are correct?

- (a) Only (ii)
- (b) Only (i) and (ii)
- (c) Only (ii) and (iii)
- (d) Only (i) and (iii)
- (e) All

12) Which of the following is/are correct regarding the data flow diagrams (DFD)?

- (a) An external agent can be a an office, department, division or individual within your company that provides net inputs to the system, receives net outputs from that system, or both.
- (b) An external agent is a another business or information system that is separate from your system but with which your system must interface.
- (c) Data store is another name given for the External agent.
- (d) External Agent should be named with descriptive, singular nouns such as Registrar, Supplier or Financial Information System.
- (e) It is not permitted to duplicate external agents on DFDs.

13) Which of the following is/are correct regarding the data flow diagrams (DFD)?

- (a) Data stores in a DFD represent stored data intended for later use.
- (b) Gane and Sarson symbol for a data store is given below.  

- (c) A process in a DFD represents the work performed by a system in response to incoming data flows.
- (d) Decomposition is the act of breaking a system into its component sub systems, processes, and subprocesses.
- (e) Logical processes are work or actions that must be performed no matter how you implement the system.

14) ..... are the lowest level of details shown in a process model.

- |                         |                          |                 |
|-------------------------|--------------------------|-----------------|
| (a) Primitive processes | (b) Elementary processes | (c) Data stores |
| (d) External entities   | (e) Logical Processes    |                 |

15) Some questions related to data flow diagrams (DFDs) with possible answers are given below.

- (i) Q. What is a context data flow diagram?  
A. It is a one page data flow diagram constructed to establish initial project scope and shows only the systems main interfaces with its environment.
- (ii) Q. What is the symbol used in Gane and Sarson notation to represent a process?  
A. Square
- (iii) Q. Is it illegal to have two data stores directly connected in a DFD?  
A. Yes. A process is needed to move data from one data store to another

Which of the above pairs is/are correct?

- |                         |
|-------------------------|
| (a) Only (i)            |
| (b) Only (i) and (ii)   |
| (c) Only (ii) and (iii) |
| (d) Only (i) and (iii)  |
| (e) All                 |

16) Which of the following is/are correct regarding data modelling?

- |   |
|---|
| (a) Data modeling is a technique for organizing and documenting a systems data.   |
| (b) Data modeling is some times called database modeling because a data model is eventually implemented as a database.    |
| (c) Entity relationship diagram is a process model utilizing several notations to show data and processes.                |
| (d) Attribute is a class of persons , places, objects, events, or concepts about which we need to capture and store data. |
| (e) Data type is a descriptive property of an entity.   |

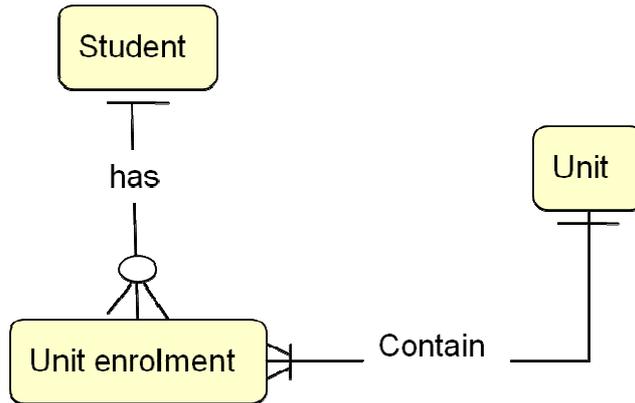
17) Some questions related to entity modeling with possible answers are given below.

- (i) Q. What is a foreign key?  
A. It is primary key of an entity that is used in another entity to identify instances of a relationship.
- (ii) Q. What is the name given for a relationship that exists between different instances of the same entity?  
A. Associate relationship
- (iii) Q. Degree is a measure of complexity of a data relationship. What is the degree of a recursive relationship?  
A. Two

Which of the above pairs is/are correct?

- |                        |                       |               |
|------------------------|-----------------------|---------------|
| (a) Only (i)           | (b) Only (i) and (ii) | (c) Only (ii) |
| (d) Only (i) and (iii) | (e) All               |               |

18) Consider the following diagram.



Which of the following statement(s) is / are true regarding the above Diagram?

- (a) The degree of the relationship between Student and Unit enrolment is 2.
- (b) The cardinality interpretation of the Student end of the Student – Unit enrolment relationship is zero or more.
- (c) The cardinality interpretation of the Unit enrolment end of the Student – Unit enrolment relationship is zero or more.
- (d) The cardinality interpretation of the Unit enrolment end of the Student – Unit enrolment relationship is zero, one or more.
- (e) The cardinality interpretation of the Unit enrolment end of the Unit – Unit enrolment relationship is one or more.

19) Which of the following statements is/are correct regarding process modeling?

- (a) Functional Decomposition Diagrams provide us with a beginning of an outline to draw a Data Flow Diagram (DFD).
- (b) An elementary process in a DFD cannot be decomposed further.
- (c) Decision table is used to describe an elementary process in a DFD.
- (d) Decision table is tabular form of presentation that specifies a set of conditions and their corresponding actions.
- (e) Complex elementary processes can be best described using structured English.

20) A Phrase from Column A has to be matched with the most appropriate phrase from Column B.

|       | Column A      |   | Column B   |
|-------|---------------|---|--|
| (i)   | Encapsulation | A | An aggregation relationship in which the 'whole' is responsible the creation and destruction of its parts. |
| (ii)  | Aggregation   | B | A relationship in which one larger "whole" class contains one or more smaller 'parts' classes.             |
| (iii) | Composition   | C | the packaging of several items together into one unit.   |
| (iv)  | Multiplicity  | D | The concept that different objects can respond to the same message in different ways.                      |
| (v)   | Polymorphism  | E | The minimum and maximum number of occurrences of the related object class.                                 |

The correct matching is

|     |         |          |           |          |         |
|-----|---------|----------|-----------|----------|---------|
| (a) | (i) & D | (ii) & C | (iii) & B | (iv) & E | (v) & A |
| (b) | (i) & C | (ii) & D | (iii) & A | (iv) & B | (v) & E |
| (c) | (i) & C | (ii) & B | (iii) & A | (iv) & D | (v) & E |
| (d) | (i) & D | (ii) & B | (iii) & C | (iv) & A | (v) & E |
| (e) | (i) & C | (ii) & B | (iii) & A | (iv) & E | (v) & D |

The blanks in the Questions 21 – 25 have to be filled by selecting the most appropriate words/phrases from the list labelled (i) – (v). Note that one word/phrase may be used in more than one instance.

- (i) Sequence Diagram
- (ii) Object Diagram
- (iii) State Diagram
- (iv) Activity Diagram
- (v) Deployment diagram

What is the most appropriate way of filling the blanks?

21) ..... shows the configuration of software components within the physical architecture of the system's hardware nodes.

|          |          |           |
|----------|----------|-----------|
| (a) (i)  | (b) (ii) | (c) (iii) |
| (d) (iv) | (e) (v)  |           |

22) ..... shows the sequential flow of activities of a use case or business process.

|          |          |           |
|----------|----------|-----------|
| (a) (i)  | (b) (ii) | (c) (iii) |
| (d) (iv) | (e) (v)  |           |

23) ..... models actual object instances with current attribute values.

|          |          |           |
|----------|----------|-----------|
| (a) (i)  | (b) (ii) | (c) (iii) |
| (d) (iv) | (e) (v)  |           |

24) ..... shows how objects interact with each other via messages in the execution of a use case or operation.

|          |          |           |
|----------|----------|-----------|
| (a) (i)  | (b) (ii) | (c) (iii) |
| (d) (iv) | (e) (v)  |           |

25) ..... models how events can change the state of an object over its lifetime, showing both the various states that an object can assume and the transitions between those states.

|          |          |           |
|----------|----------|-----------|
| (a) (i)  | (b) (ii) | (c) (iii) |
| (d) (iv) | (e) (v)  |           |

26) Each of the blanks labelled **A – F** of the paragraph given below has to be filled with the most appropriate word selected from the phrases labelled (i) – (v). Note that one word or phrase might be used more than once.

- (i). Modern structured design
- (ii). a data model diagram
- (iii). Rapid application development
- (iv). Information engineering
- (v). Prototyping

...**A**..... is a systems design technique that decomposes the system's processes into manageable components.

...**B**... is a data centered, but process-sensitive technique for planning, analyzing and designing information systems. Its primary tool is .....**C**..... Today many analysts and designers prefer ...**D**....., a modern engineering-based approach to design. It is an iterative process involving a close working relationship between the designer and the user. ....**E**..... is a systems design approach that utilizes structured, ...**F**..... and

Joint Application Development technique to quickly develop systems.

|     |                 |                  |                  |                  |                  |                 |
|-----|-----------------|------------------|------------------|------------------|------------------|-----------------|
| (a) | <b>A – (v)</b>  | <b>B – (i)</b>   | <b>C – (v)</b>   | <b>D – (iii)</b> | <b>E – (iv)</b>  | <b>F – (iv)</b> |
| (b) | <b>A – (ii)</b> | <b>B – (iii)</b> | <b>C – (iv)</b>  | <b>D – (v)</b>   | <b>E – (i)</b>   | <b>F – (v)</b>  |
| (c) | <b>A – (i)</b>  | <b>B – (iv)</b>  | <b>C – (iii)</b> | <b>D – (v)</b>   | <b>E – (ii)</b>  | <b>F – (v)</b>  |
| (d) | <b>A – (ii)</b> | <b>B – (iv)</b>  | <b>C – (ii)</b>  | <b>D – (v)</b>   | <b>E – (iii)</b> | <b>F – (iv)</b> |
| (e) | <b>A – (i)</b>  | <b>B – (iv)</b>  | <b>C – (ii)</b>  | <b>D – (v)</b>   | <b>E – (iii)</b> | <b>F – (v)</b>  |

27) Which of the following is/are correct regarding physical Data Flow Diagrams (DFD)?

- (a) Logical processes are frequently assigned to specific physical processes such as PCs , servers, people or other devices in a computer network.
- (b) Physical data flow diagrams is a process model used to communicate the non technical implementation characteristics of an information system.
- (c) A physical process is either a processor such as a computer or person or the technical implementation of specific work to be performed, such as a computer program or manual process.
- (d) Each logical process must be implemented as one physical process.
- (e) External agents are carried over from the logical DFD to the physical DFD unchanged.

28) Which of the following is/are correct regarding stakeholders in an information system?

- (a) Both technical and non-technical people who have an interest in the proposed information system are known as stakeholders.
- (b) A system analyst must develop computer programming experience and expertise in order to prepare an adequate business and technical specification for a system.
- (c) A Web master is a person who is specialized in coding and maintaining a web server.
- (d) A system designer is a stakeholder who is solely responsible for studying the problems and needs of an organization.
- (e) A Systems analyst is a unique stakeholder who facilitates the development of an information system through interaction with the other stakeholders.

**Questions (29) and (30)** are based on the following systems architectures.

- (i) File Server Architecture
- (ii) Client/Server Architecture
- (iii) Internet-based Architecture

29) ..... is / are example(s) for distributed systems.

- (a) (ii) Only
- (b) (i) and (ii) Only
- (c) (ii) and (iii) Only
- (d) (i) and (iii) Only
- (e) All

30) In ..... the server computer hosts only the data layer and all other layers implemented on the client PC.

- (a) (i) Only
- (b) (ii) Only
- (c) (iii) Only
- (d) (i) and (ii) Only
- (e) (ii) and (iii) Only

31) Consider the following statements.

- (i) Spiral software development is an example for the iterative software development approach.
- (ii) Waterfall development approach allows end-users / customers to experience as to how they will use the new software before the system is fully implemented and put into use.
- (iii) Incremental software development approach does not reduce the overall risk of project failure.

Which of the above statements is / are correct regarding software development approaches?

- (a) (i) Only
- (b) (ii) Only
- (c) (i) and (ii) Only
- (d) (ii) and (iii) Only
- (e) All

32) Which of the following statements is /are correct regarding systems development?

- (a) Good communication between constantly changing stakeholders can be promoted by maintaining good documentation throughout the systems development.
- (b) The number and scope of phases and activities of a software development project do not vary with one project to another.
- (c) By using standards throughout the systems development, systems integration and organization can be enhanced.
- (d) Even without having a sufficient project budget and schedule to cover all project objectives, it is not advisable to reduce the scope of the project.
- (e) The systems should be designed to accommodate both growth and changing requirements.

33) Consider the following statements.

- (i) Rational Rose is a tool which assists analysts and designers to build information systems.
- (ii) A Methodology is the process of building and maintaining a system to ensure that systems are built in the most effective way.
- (iii) Tools will support methodologies and will replace systems analysts.

Which of the above is / are correct regarding systems development?

- (a) (i) Only
- (b) (i) and (ii) Only
- (c) (i) and (iii) Only
- (d) (ii) and (iii) Only
- (e) All

34) Scope definition is the preliminary investigation phase of the systems development process which

- (a) assess each problem and opportunity with respect to urgency and visibility.
- (b) establishes an initial baseline of the problems and opportunities.
- (c) should take more time in the systems development process.
- (d) may later change during the development life cycle.
- (e) involves drawing the data flow diagram for the given problem.

35) Which of the following is/are correct regarding automated tools or technology?

- (a) Automated tools improve the quality of the software being developed, because they check for completeness, consistency and contradictions.
- (b) Any computer application assistant will be able to use these tools.
- (c) Sybase's Powerbuilder is a CASE tool.
- (d) Life time maintenance cannot be reduced by using an automated tools.
- (e) They improve the productivity through automation of tasks.

36) Consider the following statements related to Automated tools.

- (i) Documentation tools are used to assemble, organize and report on system models, descriptions and specifications and prototypes.
- (ii) A CASE tools capability that can automatically generate initial system models from software or database code is called forward engineering.
- (iii) A CASE tools capability that can generate initial software or database code directly from system models is called reverse engineering.

Which of the above is / are correct?

- |                       |               |                         |
|-----------------------|---------------|-------------------------|
| (a) Only (i)          | (b) Only (ii) | (c) Only (ii) and (iii) |
| (d) Only (i) and (ii) | (e) All       |                         |

37) Which of the options is/are appropriate to fill the following blank space?

..... is an/ are example(s) for Application Development Environment(s).

- |                           |                         |                       |
|---------------------------|-------------------------|-----------------------|
| (a) Niku's Open Workbench | (b) Oracles's Developer | (c) Microsoft Project |
| (d) Microsoft Visio       | (e) Borland's J Builder |                       |

38) Which of the following statements is/are correct regarding Project Management?

- |  |
|--|
| (a) Macromedia's Cold Fusion is a Project Management tool.   |
| (b) Pert chart is a commonly used project scheduling and progress evaluation tool.   |
| (c) Gantt charts offer the advantage of clearly showing overlapping tasks that can be performed at the same time.                                |
| (d) Project Evaluation and Review Technique is a graphical network model that shows a project's tasks and the relationships between those tasks. |
| (e) The Project Manager is the person responsible for supervising a systems project from initiation to conclusion.                               |

39) Which of the following statements is/are true with regard to feasibility analysis?

- |  |
|--|
| (a) Feasibility is the measure of how beneficial or practical the development of an Information System will be to an organization. |
| (b) Feasibility is only measured at the beginning of the Software Development Life Cycle.  |
| (c) If a project is not feasible, then Management must cancel the project.   |
| (d) Feasibility analysis plays a major role in the Decision Analysis phase in System Design.                                       |
| (e) An objective of the feasibility study is to assess the performance of the development team.                                    |

- 40) Map the Information System Projects in Column X with the most crucial feasibility test in Column Y in the given situation.

| Column X : Project   | Column Y : Feasibility Test |
|--|-----------------------------|
| 1. Automated Robot controlled Operation for a highly profitable hospital | A. Economic Feasibility     |
| 2. An inventory management system for a medium size super market         | B. Technical Feasibility    |
| 3. An aircraft simulation system for NASA                                | C. Operational Feasibility  |
| 4. A mobile phone based Agricultural Assistant System for farmers        | D. Schedule Feasibility     |
| 5. A system to meet new government reporting regulations                 | E. Cultural Feasibility     |

Correct matching is:

- (a) 1&C, 2&A, 3&B,4&E, 5&D
- (b) 1&B, 2&E, 3&A,4&C, 5&D
- (c) 1&A, 2&D, 3&B,4&E, 5&C
- (d) 1&E, 2&B, 3&C,4&A, 5&D
- (e) 1&D, 2&C, 3&E,4&B, 5&A

- 41) Cost Benefit Analysis is used to measure economic feasibility. Which of the following statements is/are true regarding Cost Benefit Analysis?

- (a) Fixed Costs such as costs of computer usage, supplies and variable costs such as license payments, and employee wages are used to analyze the cost of the project.
- (b) Fewer processing errors, increased throughput and decrease response time can be classified as intangible benefits.
- (c) Payback analysis is a technique for determining if and when an investment will pay for itself.
- (d) Return on investment analysis is used to calculate the current value of a unit of money.
- (e) Net Present value is an analysis technique that compares the annual discounted costs and benefits of alternative solutions.

- 42) Which of the following statements is/are true regarding Feasibility Analysis?

- (a) Candidate systems matrix is used to analyze the similarities and differences between candidate systems.
- (b) Existing system is always included in the matrix as the baseline for comparing alternatives.
- (c) Feasibility analysis matrix is a tool used to rank candidate systems.
- (d) Feasibility study report should not recommend a solution to the management but leave the decision to the management.
- (e) Candidate system matrix is a tool used to document the similarities and differences between candidate systems.

43) Correctly identifying system requirements is a must for smooth function of the development process. What is the /are the advantage(s) it gives?

- (a) Can reduce the cost of the system than projected
- (b) Can deliver the system on time
- (c) Performance of the system can increase much higher than projected
- (d) Requirements can be verified easily in the testing phase
- (e) The cost of maintaining and enhancing the system may be excessively high

44) Which of the following is/are non functional requirement type(s) defined in the PIECES classification of system requirements?

- (a) Performance
- (b) Interoperability
- (c) Effectiveness
- (d) Control
- (e) Safety

45) Which of the following statements is/are true as regards to functional and non functional requirements?

- (a) Requirements that specify a property or quality are referred to as functional requirements
- (b) Accessibility is a non functional requirement.
- (c) Non functional requirements are easy to quantify where as functional requirements are difficult.
- (d) Functional requirements depend on the expected users.
- (e) Facility to reserve a library item online in a library system is a functional requirement.

46) What are the advantages of an Interview as a fact finding technique?

- (a) Opportunity to motivate the interviewee to respond freely and openly
- (b) Less time consuming and cost effective
- (c) Loaded questions can be used to get the personal opinion of the interviewee
- (d) Can be used to evaluate and criticize the requirements
- (e) System analyst can adapt or reword questions for each interviewee

47) Map the statements in Column A with the fact finding techniques in the column B.

| Column A  | Column B   |
|---|--|
| (i) Responses can be tabulated and analyzed quickly   | A Sampling existing documents, forms & databases |
| (ii) Stratification is used to reduce the variance of estimates                                       | B Observation of the work environment            |
| (iii) Can be used to obtain a group consensus on problems, objectives and requirements.               | C Questionnaires                                 |
| (iv) Can be used to check the validity of data obtained directly from individuals                     | D Prototyping                                    |
| (v) May minimize the time spent on fact finding and help define more stable and reliable requirements | E Joint Requirement Planning (JRP)               |

|     |         |          |           |          |         |
|-----|---------|----------|-----------|----------|---------|
| (a) | (i) & C | (ii) & A | (iii) & E | (iv) & B | (v) & D |
| (b) | (i) & E | (ii) & C | (iii) & B | (iv) & D | (v) & A |
| (c) | (i) & A | (ii) & E | (iii) & C | (iv) & D | (v) & B |
| (d) | (i) & D | (ii) & E | (iii) & A | (iv) & C | (v) & B |
| (e) | (i) & C | (ii) & D | (iii) & A | (iv) & E | (v) & B |

(48) Which of the following statements is/are true about fact finding and fact finding techniques?

- |  |
|--|
| <ul style="list-style-type: none"> <li>(a) System analyst must take great care of the security and privacy of any facts.</li> <li>(b) Fact finding is only performed in the early stage of the development cycle.</li> <li>(c) Benchmarking can be used as a fact finding technique without incurring additional cost to the client.</li> <li>(d) Observation allows the system analyst to do work measurements.</li> <li>(e) Responses to questionnaire will always provide reliable and useful information.</li> </ul> |
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49) What is/are true about the Joint Requirement Planning as a fact finding technique?

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| <ul style="list-style-type: none"> <li>(a) In a brainstorming session, an idea is analyzed soon after it is presented by a participant.</li> <li>(b) JRP encourage users and management to take the ownership of the project.</li> <li>(c) Prototyping is used as a means for confirming the requirements.</li> <li>(d) JRP is used as a main fact finding technique in SPIRAL model</li> <li>(e) It is advised to conducted JRP sessions in the client company itself.</li> </ul> |
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50) Consider the following steps involved in fact finding.

| Step | Description   |
|------|---|
| A    | Observe the system in action  |
| B    | Build discovery prototypes to identify any functional requirements    |
| C    | Conduct interviews to gather requirements                             |
| D    | Learn from existing documents, Forms, reports and files               |
| E    | Design and distribute questionnaires                                  |
| F    | Follow up and use appropriate fact finding techniques to verify facts |

Choose the correct order of steps.

- (a) A, B, C, D, E, F
- (b) E, C, D, B, A, F
- (c) D, A, E, C, B, F
- (d) A, E, D, B, C, F
- (e) D, E, C, A, F, B

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