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RE18

BCS Practitioner Certificate in Requirements Engineering 2018

Version 1.0

Exam A

QUESTION 1
A business analyst is concerned that the project team may not have a consistent understanding of the requirements set, as project team members have been working on their own individual tasks. He wants to ensure that the whole team is on track and is willing to take the time needed to achieve this. He does not want to involve business stakeholders, nor embarrass any of the project team.

To begin the process of improving team understanding, he wants to hold a meeting to explain and present his understanding of the requirements to the team, and to hear their thoughts and ideas about his work so far.

Which of the following approaches to requirements validation will he be using?

A. Formal review
B. Peer review
C. Structured walkthrough
D. Technical review

Correct Answer: D
Section: (none)
Explanation

Explanation/Reference:

QUESTION 2 During his yearly appraisal, a member of the sales team is given the
following feedback:

'Your approach to your sales target has been successful, but you have not applied the approach widely enough. Your target for next year is to use your recent experience to double your sales- this will ensure your contribution is in line with the team's increased target'.

After discussion, this target is agreed on and is added to his written appraisal.

The organization recognizes four facets of knowledge:
A) Individual
B) Corporate
C) Explicit
D) Tacit

Which combination describes the appraisal target given above?

A. A and C
B. A and D
C. B and C
D. B and D

Correct Answer: D
Section: (none)
Explanation

Explanation/Reference:

QUESTION 3
A business analyst has collected the following legal requirement in support of a project seeking to improve the services provided by a children's charity:

The system must record all the details of the children and young people we interact with.

The project is in the early phases of requirements elicitation. At this stage, the business analyst is trying to ensure that they have captured the broad requirements.

Which style of requirements document is the business analyst constructing, and what additional (essential) attribute will they need to record?

A. Requirements catalogue; owner

B. Requirements catalogue; requirement ID
C. Requirements list; business area
D. Requirements list; source

Correct Answer: B
Section: (none)
Explanation

Explanation/Reference:
Reference: https://assets.publishing.service.gov.uk/government/uploads/system/uploads/attachment_data/file/42737/1480-design-requirement-annex.pdf

QUESTION 4
A business analyst is allocating elicited requirements to an appropriate category in a requirements catalogue. Here are five of the captured requirements:

A) A sales person must be able to confirm a sales order.
B) Only customers with a 'normal' status should be permitted to place orders.
C) The order management system should hold the data for 'barred' customers for five years.
D) A stock picker must be able to mark an order as 'picked'
E) The order management team should be able to view sales orders by time range and status.

Which of these requirements will be classified as functional requirements in the requirements catalogue?

A. A, B and C
B. A, D and E
C. B, C and D

D. C, D and E

Correct Answer: A
Section: (none)
Explanation

Explanation/Reference:

QUESTION 5
An international travel operator has a customer services department responsible for investigating complaints made by holidaymakers. The department has five members of staff based in its head office.

A business analyst is working on a project to replace the existing holiday management system and has compiled the following requirements from a range of elicitation activities:

1. The solution should be fully accessible in the English, French and German languages.
2. Users should be able to retrieve holiday details by booking reference number.
3. Holiday providers shall be able to add the details, date and prices of their tours directly onto the system.
4. The solution will be able to support up to 2000 concurrent active users.
5. The solution will be restorable from back-up within 4 hours.
6. The solution should be able to retrieve holiday details within 10 seconds.

Which of the following represents the correct categorization of the requirements?

A. 2x Functional requirement
   2x Non-functional requirement
   1x General requirement
   1x Technical requirement
B. 2x Functional requirement
   2x Non-Functional requirement
   2x General requirement
C. 2x Functional requirement
   3x Non Functional requirement
   1x General requirement

D. 3x Functional requirement
2x Non-functional requirement
1x General requirement

Correct Answer: B
Section: (none)
Explanation

Explanation/Reference:

QUESTION 6 An inexperienced business analyst has been asked to conduct scenario analysis. The notes he made about the topic during his training course are rather disorganized, with correct and incorrect assumptions grouped together.

Which of the following notes he made about scenario analysis is **incorrect**?

A. A workshop discovery technique
B. Can form the basis of test scripts
C. Explicitly considers exception situations
D. Helps to capture tacit knowledge

Correct Answer: B
Section: (none)
Explanation

Explanation/Reference:

QUESTION 7
Spicer, an herbs and spices company, is building a new website to grow its business online. A meeting is taking place to prioritize the requirements for inclusion in the first release of the website, which will take place in July. The second release of the website is planned for September.

Miranda, the company buyer is the owner for a requirement that states: 'The system shall provide screens for adding new products'. Miranda informs the meeting that new products are added to the system every three months and that she needs this functionality to be in place before the system goes live. In her view, it is a mandatory requirement.

Peter, who is developing the system, has stated that he can do a one-off upload of all the products into the database ready for launch in July, meaning that the website can initially go live without the 'add new product' functionality.

What priority is Miranda's requirement for the July release?

A. Could have
B. Must have
C. Should have
D. Want to have

Correct Answer: B
Section: (none)
Explanation

Explanation/Reference:

QUESTION 8 At Tiny Toys Ltd, business analyst Sophie has been employed to investigate and improve the invoicing process. To help her understand the data required in the system, she intends to request and review a sample of completed invoices.

What elicitation technique will she be using?

A. Activity sampling
B. Document analysis
C. Observation

D. Special purpose records

Correct Answer: B
Section: (none)
Explanation

Explanation/Reference:
Reference: https://www.modernanalyst.com/Resources/Articles/tabid/115/ID/2483/The-Top-Five-Go-To-Requirements-Elicitation-Methods.aspx

QUESTION 9 Make Me A Star Productions runs an annual talent competition for aspiring
amateur singers.

Four business rules have been identified:
1) A contestant is allowed to sing 1 or 2 songs in a performance.
2) An audition may be attended by up to 50 contestants.
3) A contestant is always given an audition.
4) A song can only be used in one performance.

Which of these business rule(s) can be found to be correctly represented in the class diagram?

A. 1 only
B. 1 and 2
C. 2, 3 and 4
D. 3 and 4

Correct Answer: D
Section: (none)
Explanation

Explanation/Reference:

QUESTION 10
Poppy Pet Care Kennels offers short-term accommodation for dogs whilst their owners are on holiday. The managing director of the company has initiated a project to create a new website that will allow owners to view kennel availability, book kennel accommodation and allow them to monitor their dogs whilst they are away, via a webcam.

The system will also allow kennel assistants to plan the dogs' feeding times and schedule kennel maintenance.

Customers will be able to leave feedback on the website, which will be reviewed by the quality manager who may respond to comments made by the customer.

The following are potential actors:
A) Poppy Pet Care Kennels
B) Kennel assistants
C) The managing director
D) Customers
E) Quality manager

Which of these would be drawn as actors on the use case diagram?

A. A, B and C
B. A, D and E
C. B, C and E
D. B, D and E

Correct Answer: C
Section: (none)
Explanation

Explanation/Reference:

QUESTION 11

A business analyst is in the process of validating a set of requirements produced for a new business initiative and the following needs agreement:

That the requirements...
1) Are within the scope of the project.
2) Can be verified when they have been implemented.3) Express business needs clearly and correctly.

Who is responsible for this agreement?

A. Developers, business owners, business analyst.
B. Developers, testers, business sponsor.
C. Testers, business owners, business analyst.
D. Testers, business owners, business sponsor.

Correct Answer: A
Section: (none)
Explanation

Explanation/Reference:

QUESTION 12

A set of requirements for a new online health information portal have been prioritized using MoSCoW:

REQ#1: (S)
REQ#2: (C)
REQ#3: (S)
REQ#4: (M)
REQ#5: (M)
REQ#6: (C)
REQ#7: (W)

Only the minimum usable subset was approved for inclusion in the first iteration of the project. After the build for the first iteration began, it was estimated there was enough time to add two additional requirements, without negative impact on the project schedule.

Which two requirements will now be added to the first iteration build?

A. REQ#1 and REQ#3 B.
REQ#2 and REQ#6 C.
REQ#4 and REQ#5
D. REQ#6 and REQ#7

Correct Answer: A
Section: (none)
Explanation

Explanation/Reference:

QUESTION 13

A project team has decided that it wishes to adopt an agile/iterative approach to a development project. The following principles have been agreed upon to guide the selection of elicitation techniques:

1) We will embrace the evolutionary and re-factoring principles of iterative development in our approach to requirements elicitation.
2) We need to build a broad (but basic) understanding of how teams work together in the current business situation.
3) We need to build strong personal relationships to ensure we can instil empowerment and collaboration in the team.

Which of the following sets of elicitation techniques would support all these principles?

A. Interviews, prototyping, scenario analysis.

B. Interviews, workshops, observation.
C. Prototyping, scenario analysis, document analysis.
D. Scenario analysis, observation, survey.

Correct Answer: B
Section: (none)
Explanation

Explanation/Reference:

QUESTION 14
A project manager has stated that he wants 'secure and controlled access to documentation, as well as support for impact analysis and traceability in terms of version history'.

What element of requirements management will offer this?

A. Change control
B. Configuration control
C. Configuration management
D. Software support

Correct Answer: A
Section: (none)
Explanation

Explanation/Reference:
Explanation:
Change control is a systematic approach to managing all changes made to a product or system. The purpose is to ensure that no unnecessary changes are made, that all changes are documented, that services are not unnecessarily disrupted and that resources are used efficiently.
Reference: https://searchdisasterrecovery.techtarget.com/definition/change-control

QUESTION 15
A business analyst working on a project has identified:
3 requirements for which there is a workaround and the users can live without;
2 requirements that the users can live without for now;
15 requirements which, if not delivered, will make the solution unworkable or useless.

When these requirements are prioritized using MoSCoW, which of the following categories will **not** be used?

A. M
B. S
C. C
D. W

Correct Answer: D
Section: (none)
Explanation

Explanation/Reference:
Reference: https://www.productplan.com/glossary/moscow-prioritization/

QUESTION 16
Why it is important to record the author, source, and owner attributes of each requirement in a requirements catalogue?

A. To enable effective prioritization of the requirement.
B. To enable traceability for clarification of the requirement.
C. To ensure effective configuration control of the requirement.
D. To ensure that the requirement is atomic.
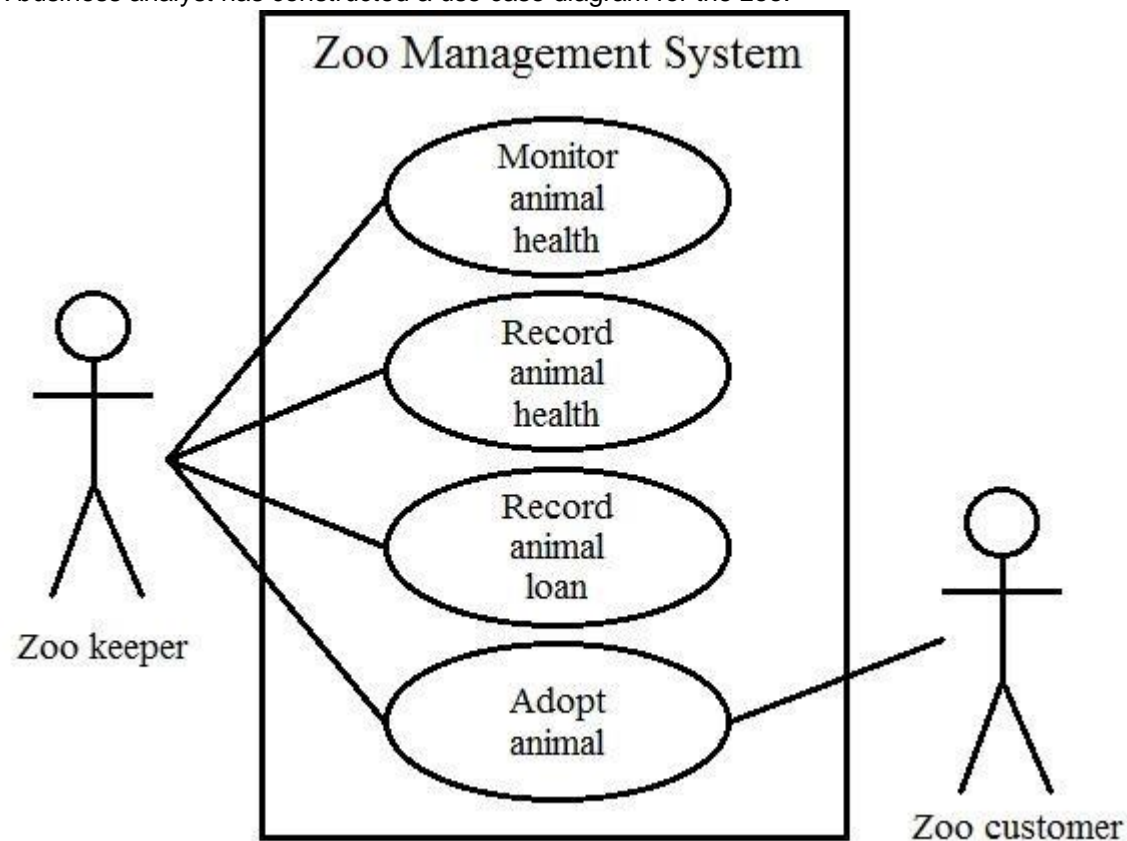
Correct Answer: B

QUESTION 17
A zoo is in the process of introducing a new IT system to improve its processes and drive greater efficiency in its operations. It has received permission from the board of directors for a phased approach to introduce new business functionality and to replace manual processes with digital solutions.

The key areas for inclusion in the first phase are a new animal health monitoring system, which will allow the zookeepers to utilize the power of data analytics to monitor and proactively manage the health of the animals. It will also provide them with a way of accurately recording the birth of new animals and record loans of animals to other zoos around the world.

On the public-facing side, the project will provide customers with an adoption scheme, which will raise much-needed funds.

A business analyst has constructed a use case diagram for the zoo:

The following potential statements have been made about the diagram:

A) The diagram is a correct representation of the scenario.
B) There are aspects of the scenario which are incorrectly represented in the diagram.
C) There are aspects of the scenario which are incorrectly omitted from the diagram.
D) The notation used in the diagram is incorrect.

Which of them is/are true?

A. A
B. B
C. B and C
D. C and D

B

QUESTION 18 ChemCo Ltd has initiated a project to consider changes in its
pension scheme.

Paul works in the marketing department and is enrolled in the pension scheme. He has been invited to attend a pension scheme project session designed to elicit requirements, understand opinions on the level of service, and consider how it could be improved in the future. On arrival at the session, Paul recognizes people from other departments, who are all customers of the pension scheme.

In which type of session is Paul about to participate?

A. Activity sampling
B. Focus group
C. Scenario analysis
D. Workshop

Correct Answer: B
Section: (none)
Explanation

Explanation/Reference:

QUESTION 19
Isamu is a business analyst working on a project. Unfortunately, it is not progressing as hoped or planned.

He has identified that the main issues with the users on the project are:
1) They manage complex processes and they do not seem to be able to articulate their needs.
2) They claim they cannot engage in requirements elicitation as they simply do not know what is possible.

Which elicitation technique would **best** address both these issues?

A. Activity sampling
B. Focus group
C. Prototyping
D. Scenario analysis

Correct Answer: A
Section: (none)
Explanation

Explanation/Reference:

QUESTION 20
Peter is analyzing requirements elicited for a sales order system. He is looking at the following requirement to see if it is fit for purpose:

'The system shall calculate the total volume of orders received per salesman on Fridays, except when the end of year reports are being run'.

During requirements analysis, requirements are checked for:
A) Ambiguity.
B) Relevance.
C) Clarity.
D) Whether the requirement is a solution.

On which of these checks would this requirement fail?
A. A, B and C
B. A and C
C. B, C and D

Correct Answer:

D. D only

QUESTION 21
A business analyst is in the process of completing the requirements document for a project. She has made the following 'to-do' list of actions to help keep track of her work:
1. Need to amend the description of the scope of the project.
2. Need to record the terminology used throughout the document.
3. Need to add the use cases and the as-is business process diagrams.

When she completes all of these actions, which requirements document sections will **not** have been updated?

A. Data models and introduction and background.
B. Function models and requirements catalogue.
C. Requirements catalogue and data model.
D. Requirements catalogue and glossary of terms.

QUESTION 22
A business analyst is working on a project seeking to deliver a new online booking system for a luxury conference center. The conference center includes three business areas: •
Customer Services
• Finance
• Regulation and Quality Assurance

The following list of requirements has been compiled from a range of elicitation activities:
1. The solution shall comply with the provisions of the General Data Protection Regulation.
2. The receptionist shall be able to view the customer name, address and telephone number.
3. The solution will be available to all users between 06:00hrs and 23:00hrs.
4. The customer shall be able to view available conference rooms for a range of dates.

Which of the following represents the correct categorization of these requirements by business area?

A. 1 x General requirement (Regulation and Quality Assurance)
    2 x Functional requirements (Customer Services)
    1 x Non-functional requirement (Customer Services)
B. 1 x General requirement (Regulation and Quality Assurance)
    2 x Non-functional requirements (Customer Services)
    1 x Functional requirement (Finance)
C. 1 x Technical requirement (Regulation and Quality Assurance)
    1 x Functional requirement (Finance)
    2 x Non-functional requirement (Customer Services)
D. 2 x General requirement (Regulation and Quality Assurance)
    2 x Functional requirements (Customer Services)

          D

QUESTION 23
A practice guide for requirements elicitation offers the following information:
Disadvantage: Likely to be particularly time-consuming to conduct.
Disadvantage: Difficult to separate fact from opinion.
Advantage: Provides an opportunity to build rapport.
Advantage: Provides an opportunity to experience the business environment.

To which elicitation method does this extract refer?

A. Focus group
B. Interviews
C. Observation
D. Workshop

Correct Answer: B
Section: (none)
Explanation

Explanation/Reference:

QUESTION 24 A business analyst is categorizing requirements in a
requirements catalogue.

Which of the following would be classed as a non-functional requirement?

A. A customer order can be cancelled up to the point of order despatch.
B. Customer order details must be kept for seven years.
C. Customer order entry screens must include the company logo.
D. Customer orders can be placed in English, Spanish or German.

Correct Answer: B
Section: (none)
Explanation

Explanation/Reference:

QUESTION 25 A project sponsor has been asked to validate requirements in the requirements validation stage of the requirements
engineering framework.

The **primary** validation role of the project sponsor is to ensure that the requirements are what at this stage?

A. Aligned with business objectives.
B. Compliant with quality standards and policies.
C. Technically feasible.
D. Unambiguous.

Correct Answer: B
Section: (none)
Explanation

Explanation/Reference:
QUESTION 26 Below are statements about what a use case model can help
the analyst to do:

A) Establish the scope of a project.
B) Identify functional requirements.

Correct Answer:

Explanation/Reference:
C) Understand how data sets are related to each other.
D) Define the business rules in a process.
E) Validate how complete a requirements set is.

Which of these statements are true?

A. A, B and E
B. A, C and D
C. A, D and E
D. B, C and E

Correct Answer: A
Section: (none)
Explanation

Explanation/Reference:

QUESTION 27
In order to understand the existing processes, Jools, a new business analyst at the Golden Cup Company, begins her investigation with reviewing the process documents and archived information. In a discussion with Alan, the project manager, she expresses the view that the processes all seem to be working, which surprises Alan. In his experience, the processes are all failing or not being followed as they should be, due to local interpretation and variation in working practices.

Jools' goal is to gain an independent perspective on the working practices and develop individual relationships with her new colleagues.

Which is the **best** set of techniques to help her achieve her goal?

A. Focus group and workshops.
B. Observation and interviews.
C. Scenarios and activity sampling.
D. Special purpose record and surveys.

Correct Answer: B
Section: (none)
Explanation

Explanation/Reference:

QUESTION 28
In developing requirements, a business analyst has decomposed requirements to reflect defined goals, which will deliver some benefit to the customer: the sales manager of Street-Runner Ltd.

The requirements may mostly be achieved in short periods of project effort (2 to 5 weeks), although some rework and change may be required.

What is the format of these requirements?

A. Business activity models
B. Process models
C. Use cases
D. User stories

D

QUESTION 29
A project has been running at the Wield Engineering Company for six months. The requirements have been signed off and development is underway; however, the development team has hit a problem and cannot implement an approved requirement. The business analyst has been asked to discuss this with the requirement owner.

Before booking a meeting with the owner, the business analyst decides to check whether there are more requirements affected by this technical limitation.

What will help the business analyst discover other affected requirements?

A. Change control
B. Configuration control
C. Horizontal traceability
D. Vertical traceability

Correct Answer: D
Section: (none)
Explanation

Explanation/Reference:

QUESTION 30
In a requirements catalogue, a distinction is often made between business level and solution level requirements.

Why is this distinction made?

A. To allow the high-level goals of the solution to be expressed as solution requirements. B.
To highlight the technical constraints in which the solution requirements must operate.
C. To reduce the number of functional requirements in the requirements catalogue.
D. To separate strategic requirements from those that only provide value to the project.

Correct Answer: A
Section: (none)
Explanation

Explanation/Reference:

QUESTION 31
An automated software tool is being used to manage requirements, including changes to those requirements.

What information in a data catalogue is mandatory if requirements are to be managed using such a tool?

A. Acceptance criteria
B. Owner
C. Priority
D. RequirementID

Correct Answer: D
Section: (none)
Explanation

Explanation/Reference:

Correct Answer:

QUESTION 32
One of the requirements of a new accounts management system is that it must allow users to scale the size of text on the screen. The requirement states that the text can be reduced to 10% of normal size and increased up to 500% of normal size, depending on the preference of the user.

What would this requirement be classified as?

A. Functional requirement
B. General requirement
C. Non-functional requirement
D. Technical requirement

Correct Answer: B
Section: (none)
Explanation

Explanation/Reference:

QUESTION 33 A business analyst working on a project has been informed that changes are required in a particular requirement; she has revisited the requirement set and is unable to determine other requirements that might be impacted by such changes.

Which element of requirements management appears to be missing?

A. Change control
B. Requirements cross-referencing
C. Requirements identification
D. Requirements origin and ownership

Correct Answer: C
Section: (none)
Explanation

Explanation/Reference:

QUESTION 34
A project aims to deliver a means of enabling the inhabitants of an archipelago to vote via the Internet. Although the technology exists to provide Internet coverage for the islands, it is notoriously difficult (and therefore expensive) to provide robust coverage because of the remote location.

Two of the requirements captured from stakeholders are provided below:
1. The solution shall provide all inhabitants with the ability to register and vote for a presidential candidate.
2. All voters shall receive an email confirmation that their vote has been registered within 2 minutes of voting.

Which requirements filter will be particularly relevant in requirements analysis?

A. Checking for solutions
B. Confirming relevance
C. Feasibility evaluation
D. Removing conflicts

Correct Answer: C
Section: (none)
Explanation

Explanation/Reference:

QUESTION 35

Below is a requirements list for a taxi company's booking system:
REQ#1: The system must allow the operator to make and amend a taxi booking.
REQ#2: The system must allow the operator to delete a taxi booking.
REQ#3: The system must be available within standard working hours.
REQ#4: The system should support 100 concurrent booking requests between 06:00hrs and 23:30hrs. REQ#5: The system should allow the operator to add a note when cancelling a taxi booking.

The following actions are being considered:
A) Separate REQ#1 into 2 requirements.
B) Clarify what is meant by 'standard working hours' in REQ#3.
C) Check that the proposed solution will be able to support 100 concurrent booking requests, per REQ#4.
D) Separate REQ#4 into 2 requirements.
E) Review and merge REQ#2 and REQ#5.

Which of these actions should be undertaken to improve the clarity of these requirements?

A. A, B and C
B. A, B and E
C. A, D and E
D. C, D and E

Correct Answer: D
Section: (none)
Explanation

Explanation/Reference:

QUESTION 36 A business analyst has been asked to ensure that all
requirements are robust.

The following are potential characteristics of a requirement:
A) Consistent
B) Functional
C) Tacit
D) Technical
E) Owned
F) Relevant

Which of them are characteristics of a requirement that is robust?

A. A, B and D
B. A, E and F
C. B, C and D
D. C, E and F

Correct Answer: C
Section: (none)
Explanation

Explanation/Reference:

QUESTION 37 A business analyst has interviewed project stakeholders and has a robust list
of requirements.

At which stages in the requirements engineering framework would he check that these requirements support the business objectives defined at the start of the project?

A. Analysis and validation

B. Elicitation and analysis
C. Elicitation and documentation
D. Validation and documentation

Correct Answer: B
Section: (none)
Explanation

Explanation/Reference:

QUESTION 38
At Rusty Springs Ltd, a new online order system is being designed for its registered customers. Each customer has an account, allowing them to order from a pre-populated form containing details of their purchases in the previous three months. The customer simply ticks which previous purchases they would like to re-order, confirms delivery details and approves the purchase. A Rusty Springs administrator updates the purchase details on the system on a monthly basis and the sales manager gets an automated order from the system within two hours of the purchase.

A business analyst has written a use case entitled 'Key Customer Purchases Springs', which includes the following lines:
A) The customer has logged onto the system and wishes to purchase springs.
B) The customer adds a new product code onto the system.
C) Only the registered customer can make an order.
D) The system returns the previous purchases.

Which of the following is correct?

A. A) Is a precondition; the sales manager is the actor.
B. A) Is the trigger; C) is a line from the security section.
C. B) Is a line from the basic flow; the customer is the actor.
D. D) Is a line from the alternative flow; this is a system level use case.

Correct Answer: B
Section: (none)
Explanation

Explanation/Reference:

QUESTION 39
A project, which was initiated several months ago, has been impacted by the following changes:
1. An organizational restructure has altered the responsibilities of the stakeholders.
2. A new chief executive has been appointed, who has new ideas regarding the immediate focus of the project.

Which of the following attributes in a requirements catalogue entry would need to be updated to reflect these changes?

A. Owner, source.
B. Priority, owner, version history.
C. Rationale, priority, source.
D. Version history, author, rationale.

Correct Answer: B
Section: (none)
Explanation

Explanation/Reference: 2
A. A and   2
B. A, B and   2
C. B, C and   2
D. B and   2

QUESTION 40
Life Extenders is a not-for-profit organization, which renovates donated furniture to sell in its high street shop; any profit it makes is given to local charities. The operations director is planning a small project to implement a website to support the organization.

The business analyst assigned to work on this project is in the process of identifying stakeholder roles. The following have been suggested:
A) Members of the public could be customers of Life Extenders.
B) Members of the public could be suppliers of Life Extenders.
C) Life Extenders is a partner of other local charities.
D) Life Extenders is a regulator as it is a not-for-profit organization.

Which of these statements are correct?

Correct Answer: C
Section: (none)
Explanation

Explanation/Reference: