

Library

00028



END SEMESTER EXAMINATION QUESTION PAPER

CODE - QP

Approved for Quality Management System

EDUCATION & TRAINING COURSE: B.ED (HONOURS) IN INFORMATION TECHNOLOGY

COURSE CODE: LC - 0851

YEAR II - SEMESTER I

SOFTWARE PROCESS MODELING - BD14074

Faculty	Department / Section/Division
Humanities and Education	Education

INSTRUCTIONS TO CANDIDATES	Date of the examination: 2023.01.13
Candidates could be disqualified if you violate examination rules.	Duration of the examination = 03 hours
Candidates are not allowed to communicate with and disturb fellow candidates during the examination.	Total Marks = 100 marks

**This paper consists of eight (08) questions in five (05) pages.
Answer five (05) questions including the compulsory question.**

Question 01 (Compulsory)

“Software processes are the activities in Software development lifecycle. The software development process is complicated and involves a lot more than technical knowledge.”

- Name four (04) Software Development Life Cycle (SDLC) models. (04 marks)
- What are the phases of Software Development Life Cycle? (06 marks)
- Draw the representation of one SDLC model among above (i) mentioned models. (10 marks)

(Total marks =20)

Question 02

Assume that you need to implement an 'Inventory Management System' for a shop. Answer to following questions which are based on your implementation.

- (i) Write five (05) functional requirements and three (03) non-functional requirements of the system. (08 marks)
- (ii) Write five (05) user-stories which describe the functionality of the system. Provide the answer according to functional requirements you wrote in part (i). (12 marks)

(Total marks =20)

Question 03

- (i) Draw test case for 'search' functions according to the given scenario. The scenario is based on 'an online shopping system'. (20 marks)

"Only registered members can search items by entering the item name. If the item is not available, system displays message as 'Item is not available'. If the item is available system display an image of the item and the price. If a new member tries to search an item, system display the message 'You should register to the system' and display the register button."

(Total marks =20)

Question 04

- (i) What is 'Agile Methodology'? Write the definition. (05 marks)
- (ii) Write five (05) characteristics of agile methodology. (05 marks)
- (iii) Write five (05) benefits of using agile methodology. (To customer, vendor or development team) (05 marks)
- (iv) Write your opinion of using agile methodology for the implementations. (05 marks)

(Total marks =20)

Question 05

Draw a use case Diagram to the given description.

(20 marks)

'Read.lk' is an online library. If anyone wants to be a member of this library, that new person should register to the library. Once the new person registers, they will become a member of the library. Library members should login to the system by providing a username and password to use the books in the library. If the user credentials are incorrect, the member can see an error message. Members can read books, search books through the system. Also, when they search for books, if the book is not available, they can request the book through the system. There is a librarian for this online library. The Librarian can view members and check requested books. But before these activities, the librarian also login to the system by providing a username and password. If the user credentials are incorrect, the librarian can see an error message.'

(Total marks =20)

Question 06

Draw the activity diagram with swim lanes for the given description.

(20 marks)

The Activity starts when the admin registers all users to the system. Then users can access the system by login into the system.

The principal can check whether all teachers and students are registered. If not send user details to the admin and then the admin will register that user to the system.

After that, teachers can enter teaching materials to the system. After entering teaching materials, teachers allow students to download the materials from the system. Meanwhile, teachers can upload test papers to the system and allow students to upload the answers to the system.

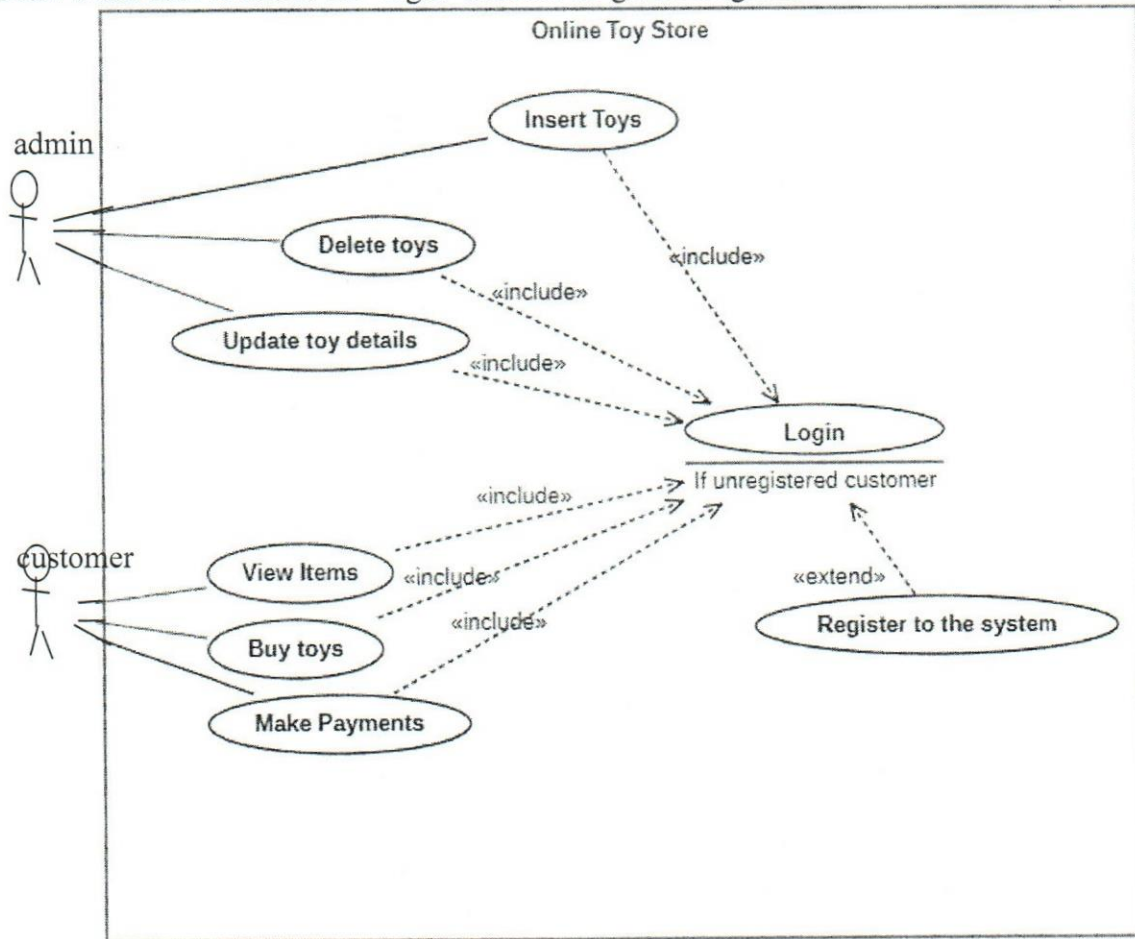
Then teachers can mark the answers and publish the results through the system. Students, teachers and principle can view the results at the same time.

(Total marks =20)

Question 07

Draw a use case scenario for 'login' usecase in given diagram.

(20 Marks)



(Total marks =20)

Question 08

Write and briefly explain the most suitable Software Development Model for the following scenarios.

- (i) Creating a risky project and the development team does not have a clear idea about customer requirements. So, team members first create the prototype and if the customer agree with that then create the actual product. (04 marks)
- (ii) Simple inventory management system with well-known functions. (04 marks)
- (iii) An Online game upgrade and release a new version of that game. (04 Marks)

- (iv) A Project is to develop a complete system for a new bank. System will have many users, interrelationships, and functions. The project has few risks related to requirements definition. These risks need to be reduced. (04 Marks)
- (v) Creating a robot with so many functions. So that, the project team decided to launch the robot with initial functions and while customers complete gradually linking other functions. (04 marks)

(Total marks =20)

-----END OF THE QUESTION PAPER-----



END SEMESTER EXAMINATION QUESTION PAPER

CODE - QP

Approved for Quality Management System

EDUCATION & TRAINING COURSE: B.ED (HONOURS) IN INFORMATION TECHNOLOGY

COURSE CODE: LC - 0851

YEAR II - SEMESTER I

SOFTWARE PROCESS MODELING - BDI4074

Faculty	Department / Section/Division
Humanities and Education	Education

INSTRUCTIONS TO CANDIDATES	Date of the examination: 2023.01.13
Candidates could be disqualified if you violate examination rules.	Duration of the examination = 03 hours
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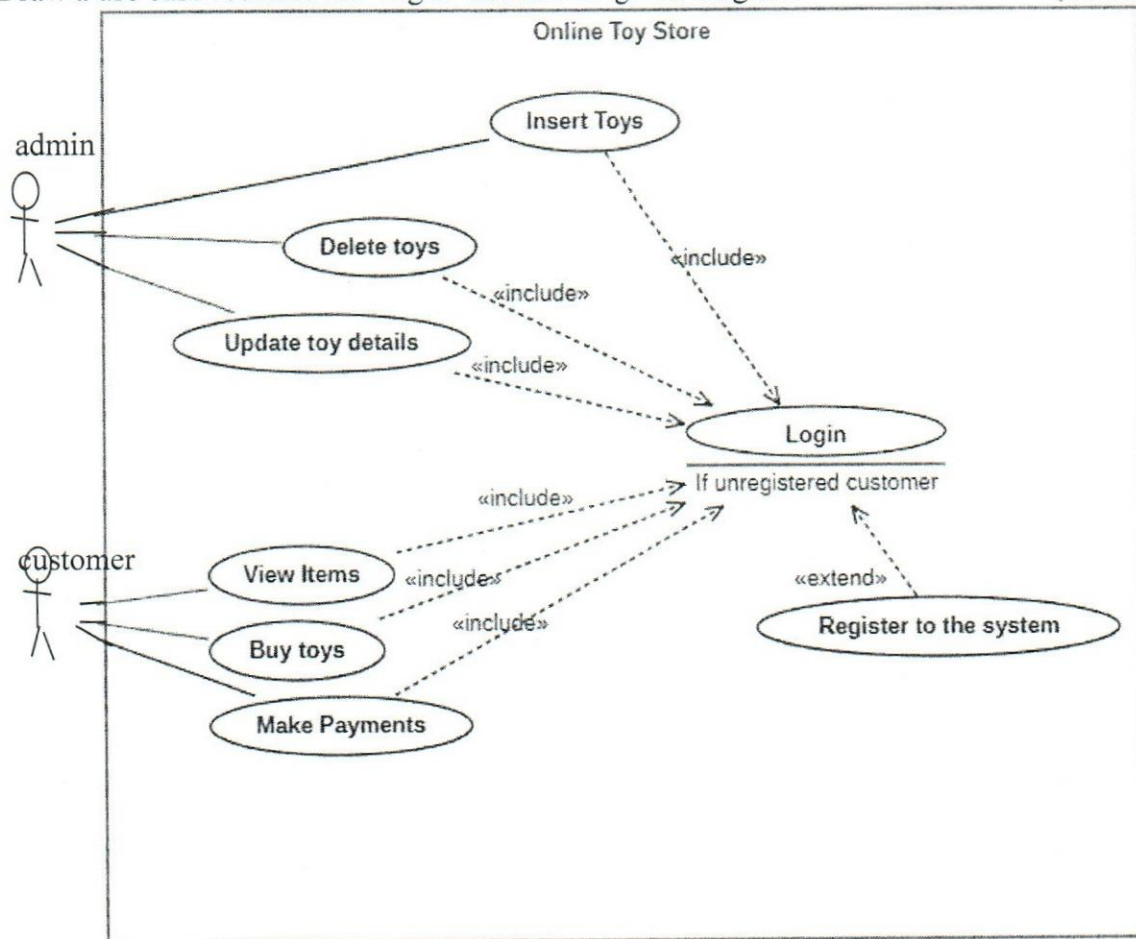
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-----END OF THE QUESTION PAPER-----

Library

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END SEMESTER EXAMINATION QUESTION PAPER

CODE - 9P

Approved for Quality Management System

EDUCATION & TRAINING COURSE: B.ED (HONOURS) IN INFORMATION TECHNOLOGY

COURSE CODE: LC - 0851

YEAR 2 - SEMESTER I

SUBJECT: MEASUREMENT & EVALUATION IN EDUCATION - BDP4093

Faculty	Department / Section/Division
Humanities and Education	Education

INSTRUCTIONS TO CANDIDATES	Date of the examination: 2023.01.11
Candidates could be disqualified if you violate examination rules.	Duration of the examination = 03 hours
Candidates are not allowed to communicate with and disturb fellow candidates during the examination.	Total Marks = 100 marks

Answer five (05) questions only

Question 01

- List out four (04) basic assessment concepts. (04 Marks)
- Define the assessment concepts mentioned under (a). (08 Marks)
- Discuss the relationship between the concepts in brief. (08 Marks)

Question 02

- Define the concepts "Formative and Summative Assessment" (06 Marks)
- Discuss how formative assessment differs from summative assessment. (06 Marks)
- "Formative assessment supports teachers to identify the students learning progress." Discuss your opinion about the statement with examples. (08 Marks)

Question 03

- Define "Criterion-Referenced Tests - (CRTs) and Norm-Referenced Tests - (NRTs)" (06 Marks)
- Briefly explain the possible strengths and weaknesses of CRTs. (06 Marks)
- "Norm-Referenced Tests are widely used in Sri Lanka." Discuss, with examples, why NRTs are widely used in Sri Lanka. (08 Marks)

Question 04

- a. Distinguish the concepts "Objective assessment and Subjective Assessment" in brief. (06 Marks)
- b. Provide a minimum of three (03) examples for each Objective assessments and Subjective Assessment and give strengths and weaknesses of Objective assessments. (06 Marks)
- c. "Subjective Assessments support to develop creative and innovative thinking of students than Objective Assessments." Discuss the statement with examples. (08 Marks)

Question 05

- a. List out six (06) assessment principles. (06 Marks)
- b. Select three (03) assessment principles mentioned under (a) and discuss how the selected assessments can be accommodated in student assessments. (14 Marks)

Question 06

- a. State the levels of Bloom's Taxonomy of Educational Objectives in order. (06 Marks)
- b. Briefly describe type of knowledge measured by each level of the taxonomy. (14 Marks)

Question 07

- a. Mention the two types of test items and show the types of test items come under each type in a diagram. (08 Marks)
- b. Briefly discuss the strengths and weaknesses of each type of test items. (12 Marks)

-----END OF THE QUESTION PAPER-----

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FINAL EXAMINATION QUESTION PAPER

CODE -QP

Approved for Quality Management System

EDUCATION & TRAINING COURSE-BACHELOR OF EDUCATION
(HONOURS) IN INFORMATION TECHNOLOGY

COURSE CODE: LC-0851

YEAR 2 – SEMESTER 1

SUBJECT: GUIDANCE & COUNSELLING - BDP4082

Faculty	Department / Section/Division
Humanities and Education	Education

Instructions to candidates	Date: 10/01/2023
Answer any five questions only.	Duration of the examination = 03 hours
Total Marks = 100	Candidates could be disqualified if you violate examination rules.
	Candidates are not allowed to communicate with and disturb fellow candidates during the examination.

Answer any 5 questions

Question 1

1. "Guidance is not giving direction. It is not the imposition of one person's point of view upon another person. It is not making decision for an individual which he/her should make for himself/herself.

- Why do students need guidance? (8 Marks)
- Explain the relationship between guidance & counselling. (12 Marks)

Question 2

2. An examination of guidance and counselling must begin by insisting that just as every teacher is a teacher of social skills, so every teacher is an educational counsellor (Fontana, 1988, p.288).

- Define Counselling with your own words. (8 Marks)
- Explain the characteristics of a Counselor (12 Marks)

Question 3

3. Counselling typically follows a series of overlapping stages. Initially, clients help counselors understand their current difficulties, that is, help counselors to understand why they are seeking counseling.

- a). Mention the sources to obtain important information about his client in counseling. (8 Marks)
- b). Mention the variable to be considered when in the decision-making stage in the counseling processing. (12 Marks)

Question 4

4. Understating of mental status is an assessment of current mental capacity through evaluation of general appearance, behavior, any unusual or bizarre beliefs and perceptions, mood, and all aspects of cognition.

- a). What is Stress and explain what causes Stress? (8 Marks)
- b). Briefly explain the remedies for anxiety (12 Marks)

Question 5

5. Challenge in counselling is the skill of highlighting disagreement and conflicts in the client's process. A client may have conflicting desires or feelings which are causing them discomfort at an unconscious level.

- a). Explain the barriers to communication in the helping process in counselling. (8 Marks)
- b). On what condition counselor have to take a decision for making a referral (12 Marks)

Question 6

6. Write short notes on: (Each topic carries 5 Marks)

- a) Objectives of educational guidance.
- b) Need for vocational guidance.
- c) Empathy.
- d) Personal guidance

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FINAL EXAMINATION QUESTION PAPER

CODE -QP

Approved for Quality Management System

EDUCATION & TRAINING COURSE-ED (HONOURS) IN INFORMATION TECHNOLOGY

COURSE CODE: LC-0851

YEAR II – SEMESTER I

SUBJECT: COMPARATIVE EDUCATION - BDP4073

Faculty	Department / Section/Division
Humanities and Education	Education

INSTRUCTIONS TO CANDIDATES	Date: 09.01.2023
Answer any five questions only.	Duration of the examination = 03 hours
Total Marks = 100	Candidates could be disqualified if you violate examination rules.
	Candidates are not allowed to communicate with and disturb fellow candidates during the examination.

Answer any FIVE questions only

Question 1

Comprehensive understanding of Comparative Education is important for teachers as it examines different education systems.

- I. What is Comparative Education.? (4 marks)
- II. Write three objectives of Comparative Education. (7 marks)
- III. Why prospective teachers need to study Comparative Education? Discuss. (9 marks)

Question 2

Behind every system of education, there are factors or features that determine or influence and shape the system.

- I. Identify **five factors** that influence the education systems of the world. (6 marks)
- II. Select two factors from 2 (i) and explain how these factors have shaped the education system of your country (7 marks)
- III. "The type of education largely depends on the economic strength of any country"
Elucidate. (7 marks)

Question 3

Educational plural society is discussed under four areas

- I. What are those four areas that comes under the plural society? (4 marks)
- II. What is a multi-religious education? (7 marks)
- III. Multilingual education typically refers to “first language-first” education. Discuss. (9 marks)

Question 4

Globalization plays a vital role since the people around the world are more connected with each other.

- I. What is globalization? (4 marks)
- II. How to teach with global perspective? Discuss with **three** reasons. (7 marks)
- III. Discuss **four** features of internationalization in education. (9 marks)

Question 5

Skills of 21st century educators consist of learning skills, literacy skills and life skills.

- I. Explain the learning skills of the 21st century educator (6 marks)
- II. How do you define the knowledge society? (7 marks)
- III. “As a 21st century educator teachers must be visionary leaders”. Elucidate this statement (7 marks)

Question 6

The indigenous system of Education in ancient Sri Lanka was organized at three levels.

- I. Explain these three levels of the indigenous system of education in ancient Sri Lanka? (6marks)
- II. Discuss the characteristics of indigenous education. (7marks)
- III. Discuss the impact of Portuguese education. (7 marks)

Question 7

1943 special committee plays a vital role in history of education in Sri Lanka.

- I. Explain the recommendations of 1943 special committee. (6 marks)
- II. Briefly discuss the Sphere of Education after the Colebrooke Commission recommendations (7 marks)
- III. Discuss the achievements under the Central School Commission? (7 marks)

-----END OF THE QUESTION PAPER -----