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**PI—28—2024**

**FACULTY OF SCIENCE**

**BCA (Third Year) (Fifth Semester) EXAMINATION**

**MARCH/APRIL, 2024**

**(Revised/CBCS Pattern)**

**COMPUTER APPLICATION**

(Mobile Application Development)

**(Saturday, 13-04-2024)**

**Time : 10.00 a.m. to 1.00 p.m.**

*Time—3 Hours*

*Maximum Marks—75*

**N.B. :—** (i) All questions are compulsory.

(ii) Figures to the right indicate full marks.

(iii) Assume suitable data, if required.

1. Attempt any *five* of the following :

15

(a) Explain the basic components of android programming.

(b) Explain DVM (Delvik Virtual Machine).

(c) Resources.

(d) Explain layouts.

(e) Explain rotate animation.

(f) Explain sensors.

(g) Remote databases.

P.T.O.

2. Answer any *three* of the following : 15
- (a) Draw a android architecture and explain in detail.
  - (b) Discuss the android activity life-cycle methods with suitable diagram.
  - (c) Explain different versions of android OS.
  - (d) How do support different screen sizes compatibility of android phone.
3. Answer any *three* of the following : 15
- (a) Explain check box and radio button with suitable diagram.
  - (b) What is event ? Explain mouse event in detail.
  - (c) Explain list view control with suitable diagram.
  - (d) Explain services of smart phone.
4. Answer any *three* of the following : 15
- (a) Explain rotate animation.
  - (b) How to play video in your smart phone.
  - (c) Explain scale animation.
  - (d) Write a program in android to display the hello message on the screen.
5. Answer any *three* of the following : 15
- (a) What is storage ? Explain internal storage in detail.
  - (b) Explain google map in detail.
  - (c) Explain web application.
  - (d) Explain remote databases in detail.

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**PI—11—2024**

**FACULTY OF SCIENCE AND TECHNOLOGY**

**BCA (Third Year) (Fifth Semester) EXAMINATION**

**MARCH/APRIL, 2024**

**(CBCS/Revised Pattern)**

**COMPUTER APPLICATION**

**BCA-501**

**(System Analysis and Design)**

**(Friday, 5-4-2024)**

**Time : 10.00 a.m. to 1.00 p.m.**

*Time—3 Hours*

*Maximum Marks—75*

*N.B. :—* (i) All questions are compulsory.

(ii) Figures to the right indicate full marks.

(iii) Assume suitable data, if required.

(iv) Use of any electronic media such as mobile phone, digital diary and electronic calculator is not permitted.

1. Attempt any *five* of the following (3 marks each) :

15

(a) Explain the characteristics of system in detail.

(b) Explain Cost benefit analysis in detail.

(c) Describe the objectives of database design.

(d) Explain elements of system in detail.

P.T.O.

- (e) Describe the role of system analyst in detail.
- (f) Explain different dimensions of planning in system analysis.
- (g) What is a Data Dictionary ?

2. Attempt any *three* of the following (5 marks each) : 15

- (a) Explain system concept in detail.
- (b) Explain physical system and abstract system in detail.
- (c) Describe Fact Finding Technique in detail.
- (d) What are the considerations for System Planning ?
- (e) Describe Input and Output form design.

3. Attempt any *three* of the following (5 marks each) : 15

- (a) Describe Open and Closed system.
- (b) Explain Analysis and Design phase of system development life cycle.
- (c) Explain the determination of User's requirement and analysis in detail.
- (d) Describe Technical and Operational Feasibility.
- (e) What is Dataflow Diagram ? Explain with example.

4. Attempt any *three* of the following (5 marks each) : 15

- (a) Explain Man-made Information System in detail.

- (b) Describe the development and testing phase of system development life cycle.
- (c) Explain the Economic Feasibility in detail.
- (d) Describe File structures and Organization.
- (e) Explain physical view of data in detail.
5. Write short notes on any *three* of the following (5 marks each) : 15
- (a) IPO chart
- (b) HIPO chart
- (c) Gantt chart
- (d) Pseudo code
- (e) Decision tree.

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**PI—18—2024**

**FACULTY OF SCIENCE & TECHNOLOGY**

**BCA (Third Year) (Fifth Semester) EXAMINATION**

**MARCH/APRIL, 2024**

**(Revised/CBCS Pattern)**

**COMPUTER APPLICATION**

**(Web Development and PHP Programming)**

**(Monday, 08-04-2024)**

**Time : 10.00 a.m. to 1.00 p.m.**

*Time—3 Hours*

*Maximum Marks—75*

*N.B. :—* (1) *All questions are compulsory.*

(2) *Figures to the right indicate full marks.*

(3) *Assume suitable data, if required.*

(4) *Use of any electronic media such as mobile phone, digital diary and electronic calculator is not permitted.*

1. Attempt any *five* of the following (3 marks each) :

15

(a) Discuss white space and comments in PHP.

(b) Explain include ( ) in PHP.

(c) Explain any *three* Data and Time function in PHP.

(d) Explain the variables in PHP.

(e) Explain any *three* array functions in PHP.

(f) Explain switch statement in PHP.

(g) Explain data types in MySQL.

P.T.O.

2. Attempt any *three* of the following (5 marks each) : 15
- (a) What is PHP ? Explain embedding PHP code in web pages with example.
  - (b) Explain do...while loop in PHP.
  - (c) How to create a HTML form ? Explain in brief with example.
  - (d) What is Inheritance ? Explain types of inheritance in PHP.
  - (e) Explain with example how to define a class, add class members and how to create an object of a class in PHP ?
3. Attempt any *three* of the following (5 marks each) : 15
- (a) Explain Associative arrays with example.
  - (b) Explain operators in PHP.
  - (c) Explain with example Updating Records with PHP.
  - (d) Explain any *five* MySQL commands in brief.
  - (e) Write a program in PHP to show the use of for loop.
4. Attempt any *three* of the following (5 marks each) : : 15
- (a) Explain Database terms in MySQL.
  - (b) Explain functions in PHP with example.
  - (c) Discuss the concept of constructor in PHP.
  - (d) Explain with example indexed array in PHP.
  - (e) Explain connecting to MySQL and selecting the database and executing simple queries using PHP-MySQL function.

5. Write short notes on any *three* of the following (5 marks each) : 15

- (a) Keywords in PHP
- (b) Retrieving Query Results
- (c) MySQL
- (d) Features of PHP
- (e) If-else statement.