

KB INSTITUTE OF TECHNOLOGY AND MANAGEMENT

ASSIGNMENT - 1

5BCA: DOT NET PROGRAMMING WITH VB.NET & ASP.NET

Attempt all question

Marks: 25

- 1) Explain the .Net Framework in detail?(5)
- 2) Explain the working of MSIL? (5)
- 3) Explain various operators found in VB.Net?(10)
- 4) Explain the various type of Conditional statements used in VB.Net?(5)

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ASSIGNMENT - 1
5BCA: MATHEMATICS

Attempt all question

Marks: 25

QUS (1) - Power Set and Set Equality

Let $A=\{x,y\}$ and $B=\{y,x\}$.

- a) Is $A=B$? Justify your answer using the definition of set equality.
- b) Find the power set of A, $P(A)$.
- c) How many elements are in the power set of $P(A)$ (i.e., $P(P(A))$)? List them.

QUS (2)- De Morgan's Law with Three Sets

Using Venn diagrams or a membership table, verify De Morgan's Law for three sets:

$$(A \cup B \cup C)' = A' \cap B' \cap C'$$

Assume a universal set U.

QUS (3)- Number of Elements in Sets

In a class of 60 students, 25 play Cricket, 20 play Tennis, and 10 play both.

- a) How many play only Cricket?
- b) How many play only Tennis?
- c) How many play at least one of these sports?
- d) How many play neither?

QUS (4)- Defining Relations from a Set to Itself

Let $S=\{1,2,3\}$.

- a) How many ordered pairs are in $S \times S$?
- b) Define a relation R on S (i.e., from S to S) that is "less than". Write R in roster form.
- c) Represent the relation R from part (b) using an arrow diagram.
- d) What is the domain and range of R?

QUS (5) - Application of Distributive Law

Using the Distributive Law of Intersection over Union, simplify the expression:

$$(A \cap B) \cup (A \cap C)$$

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ASSIGNMENT - 1

5BCA: MOBILE APPLICATION DEVELOPMENT

Attempt all question

Marks: 25

- 1) Explain the role of the Dalvik Virtual Machine (DVM) and the Android Runtime (ART) in the Android operating system. What key architectural change did ART introduce compared to DVM, and what was the main benefit of this change?
- 2) Describe the essential components required for setting up a modern Android development environment. Specifically, explain the purpose of Android Studio, the Android SDK, and the AVD Manager (Android Virtual Device Manager). How do these three components work together to allow a developer to build and test an app?
- 3) What is the Android API? Explain how it relates to different Android versions. Why is it important for a developer to consider the API level of a target device when building an Android application?

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ASSIGNMENT - 1

5BCA: PHOTO EDITING WITH PHOTOSHOP

Attempt all question

Marks: 25

- 1) Write short notes on the Vector Graphics and Bitmap Graphics. **(5)**
- 2) Describe all Tools of Toolbox in Photoshop. **(10)**
- 3) What do you understand by Image Resolution and Pixel Logics? **(5)**
- 4) Write the steps to apply various editing features like Rotating, Cropping, Hiding
Instead of Cropping, Adjusting the Canvas Size. **(5)**

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ASSIGNMENT - 1

5BCA: WEB DESIGNING WITH PHP

Attempt all question

Marks: 25

- 1) Explain PHP, its history and its advantages. (10)
- 2) Explain Precedence of operators. (5)
- 3) Describe the following: (10)
 - A) PHP conditional Statement with Example.
 - B) PHP Loop Statement with Example.

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PRACTICAL- 1

5BCA6- Computer Lab-5

Attempt all the questions

Marks: 25

- 1) Write a PHP program to print out the multiplication table up to 6*6.(10) (PHP)**
- 2) Create a Simple Calculator for windows application in .net.(5) (.NET)**
- 3) Create “Hello World” application. That will display “Hello World” in the middle of the screen in the emulator. Also display “Hello World” in the middle of the screen in the Android Phone.(10) (Mobile Application Development)**