

BLUECREST COLLEGE, ACCRA, GHANA

(Affiliated to University of Education, Winneba)

BSc IT - Semester VIII (Regular)

BIT 424 – Tutorial Questions

Answer all the questions, save it as pdf and submit via Moodle LMS before 03/06/2020 08:00 am

1. With reference to the following six lines of code:

```
1  $departments = array(  
2      'IT' => "Information Technology", index 0  
3      'BBA' => "Business Administration", index 1  
4      'SFD' => "Fashion and Design", index 2  
5      'MC' => "Media and Communication" index 3  
6  );
```

- a) What is an *array*?
 - b)
 - i) State the *two* (2) types of array in PHP.
 - ii) Indicate which the types stated in (i) is used in `$departments`.
 - iii) “*Medical Engineering*” is a new department which just started. Write a simple statement that adds this new department to our `$departments` array.
 - c) Write the output of the PHP code;
 - i. `echo $departments[4];` undefined offset at index 4,
 - ii. `echo $departments['MC'];` media and communication
2.
 - a) Describe the various ways you can *preserve information* of a user’s visit to a page.
 - b) Session state information is stored in the `$_SESSION` *autoglobal*. What is *session autoglobal variable*?
 - c) State *two* (2) *advantages* and *drawbacks* when you use session variables.
 - d) What PHP functions are used to *initialize* a new `$_SESSION` autoglobals and the one used to *delete* the `$_SESSION` autoglobals.

3. a) What is the difference between INNER JOIN, LEFT JOIN and RIGHT JOIN?

b) Consider the following 2 tables in the database:

Table Name: tbl_group			
GroupID	GroupName	Description	IsActive
100	Default User		1
200	Student		1
300	Lecturer		1
400	Accountant		1
500	Administrator		0
900	Admin		0

Table Name: tbl_user_group_join		
UserID	GroupID	IsActive
4	100	0
1	200	0
3	200	0
4	200	0
5	200	0
2	300	0
3	300	0
1	900	0
4	900	0
5	900	0

With reference to the tables above, explain these four lines of SQL query below and write down the output expected:

```
1  SELECT tbl_group.GroupID, GroupName, COUNT(UserID) as NumOfUsers FROM
2      FROM (tbl_group JOIN tbl_user_group_join
3      ON (tbl_group.GroupID = tbl_user_group_join.GroupID))
4      GROUP BY tbl_group.GroupID
```