BRAC UNIVERSITY
Post-graduation Programs
Department of Computer Science and Engineering
Admission Test

Instructions
There will be two sections in the exam
1. Questions Based on Computer Science
2. English Composition
Section 1

1. What is the length of an IPv6 address? Give an example.

2. IEEE 802.11B in 2.4GHz is a WLAN standard, what is the maximum bandwidth that it can provide?

3. How many layers do we have in OSI and TCP/IP?

4. What do you mean by VLSM and CIDR?

5. What is the decimal equivalent of (1011.1101)_2

6. Write the statement to obtain a remainder after dividing 3.14 by 2.1?

7. Write the command to round off a value from 1.66 to 2.0.

8. What will be the result of the below Java Code?

```java
public class Test {
    public static void main(String args[]) {
        int i = 0, j = 5;
        for( ; (i < 3) && (j++ < 10) ; i++ ) {
            System.out.print(" " + i + " " + j);
        }
        System.out.print(" " + i + " " + j);
    }
}
```
9. What do you mean by platform independency of programming language?

10. What do you mean by Primary Key and Foreign Key for a database?

11. Write SQL command to create a database “MainRecord”.

12. Write SQL command to create a table “Record1” in “MainRecord” Database.

13. Write SQL command to select Age rows from “Record1” where “Age=32”.

14. What do you mean by Thread and Multithread?

15. What is SDLC?
Section 2

Students have to write a composition, not exceeding 200 words, expressing their opinion about a given topic.