



UNIVERSITI TUN HUSSEIN ONN MALAYSIA

**FINAL EXAMINATION
(ONLINE)
SEMESTER II
SESSION 2019/2020**

COURSE NAME : SOFTWARE QUALITY ASSURANCE
COURSE CODE : BIE 30703
PROGRAMME CODE : BIP
EXAMINATION DATE : JULY 2020
DURATION : 3 HOURS
INSTRUCTION :
1. ANSWER ALL QUESTIONS.
2. THE STUDENTS SHOULD
UPLOAD THE ANSWER
BOOKLET (PDF/ WORD FORMAT)
WITHIN 30 MINUTES AFTER
EXAMINATION PERIOD

THIS QUESTION PAPER CONSISTS OF THREE (3) PAGES

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Q1 Differentiate **TWO (2)** two types of Experience – based Test Design Techniques. (10 marks)

Q2 (a) Discuss roles a group of testers in assisting lead tester in Analysis and Design phase (5 marks)

(b) Discuss the relationship between test log document and incident report. (5 marks)

Q3 Discuss **TWO (2)** reasons why a tester does not want to use tools to assist their testing process? (10 marks)

Q4 Questions **Q4(a) – Q4(c)** are based on the scenario in **Figure Q4**.

```

1 printSum(int num) {
2     int sum;
3     while(num <= 10) {
4         if(num/2 == 0)
5             sum = sum+1;
6         num++;
7     }
8     return sum; }

```

FIGURE Q4

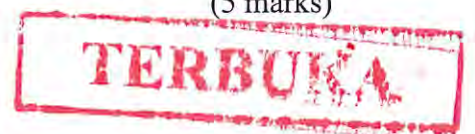
(a) Develop a flow graph. (16 marks)

(b) Define the maximum number of test cases needed to provide statement coverage. (2 marks)

(c) Based on **Q4(b)**, give an example of a set of input. [Show your works]. (5 marks)

(d) Define the maximum number of test cases needed to provide branch condition coverage. (2 marks)

(e) Based on **Q4(d)**, give an example of a set of input [Show your works]. (5 marks)



Q5 Questions **Q5(a)** – **Q5(c)** are based on the scenario in **Figure Q5**.

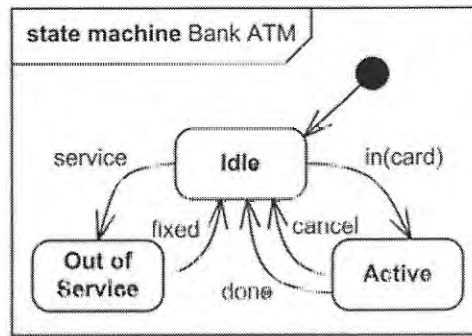


FIGURE Q15

(a) Write all the state transition. (5 marks)

(b) Write the states (3 marks)

(c) Draw State Transition Tree for State Compliance Testing. (12 marks)

- END OF QUESTION -

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