UTHM
Universiti Tun Hussein Onn Malaysia

UNIVERSITI TUN HUSSEIN ONN MALAYSIA

FINAL EXAMINATION
(ONLINE)
SEMESTER II
SESSION 2019/2020

COURSE NAME   : DISTRIBUTED SYSTEM

COURSE CODE   : BIE 33203

PROGRAMME CODE   : BIP

EXAMINATION DATE   : JULY 2020

DURATION   : 2 HOURS 30 MINUTES

INSTRUCTION   : 1. ANSWER **ALL** QUESTIONS.
                              2. PLEASE MAKE SURE TO CLICK "SAVE ANSWER" BUTTON FOR SUBJECTIVE QUESTIONS. OBJECTIVE QUESTIONS ARE SAVED AUTOMATICALLY.

THIS QUESTION PAPER CONSISTS OF **FOUR (4)** PAGES

Q1 (a) When you watch your favourite video on YouTube, suddenly it hangs on your computer. State **TWO (2)** causes of the situation.

(4 marks)

(b) State **TWO (2)** problems of the situation if you cannot connect to a campus hotspot when you are at home.

(4 marks)

(c) Identify the typical practice to check on the network connectivity for surfing Google website.

(2 marks)

Q2 (a) An unknown person intercepts your communication network when you do online banking transaction. Describe the problem using a diagram

(10 marks)

(b) Draw a diagram for the client-server communication improvement through proxy server.

(10 marks)

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Q3 (a) State the reason of the connection problem as in **Figure Q3(a).**

(4 marks)


```
C:\Windows\system32\cmd.exe
Microsoft Windows [Version 6.1.7601]
Copyright (c) 2009 Microsoft Corporation.  All rights reserved.

C:\Users\User>ipconfig

Windows IP Configuration


Ethernet adapter Bluetooth Network Connection 4:

   Media State . . . . . . . . . . . : Media disconnected
   Connection-specific DNS Suffix  . :

Wireless LAN adapter Wireless Network Connection 5:

   Media State . . . . . . . . . . . : Media disconnected
   Connection-specific DNS Suffix  . :

Ethernet adapter Local Area Connection:

   Media State . . . . . . . . . . . : Media disconnected
   Connection-specific DNS Suffix  . : lan

Tunnel adapter isatap.lan:

   Media State . . . . . . . . . . . : Media disconnected
   Connection-specific DNS Suffix  . :

Tunnel adapter isatap.{37644FE5-9E69-4714-B212-CD5BFBDC85FB}:

   Media State . . . . . . . . . . . : Media disconnected
   Connection-specific DNS Suffix  . :

Tunnel adapter Teredo Tunneling Pseudo-Interface:

   Media State . . . . . . . . . . . : Media disconnected
   Connection-specific DNS Suffix  . :

Tunnel adapter isatap.{24936243-9B5C-4226-B2CE-5EFD46962110}:

   Media State . . . . . . . . . . . : Media disconnected
   Connection-specific DNS Suffix  . :

C:\Users\User>
```

Figure Q3(a)

(b) Use a table, describe the communicating entities between system oriented entities and problem-oriented entities.

(6 marks)

Q4 (a) State the problems if a visit counter on a client site cannot be changed.

(5 marks)

(b) Based on the answer in **Q4(a)**, state the possible solutions.

(5 marks)

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Q5   (a)   Describe **THREE (3)** functions of the Chat server code to start the communication.

(6 marks)

(b)   A client cannot access the Chat server. State possible solution to start the communication.

(4 marks)

- END OF QUESTIONS -

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