

## FINAL EXAMINATION MAY 2024 SEMESTER

COURSE :

**TEB3323 - ENTERPRISE SYSTEMS DEVELOPMENT** 

DATE

12 AUGUST 2024 (MONDAY)

TIME

9:00 AM - 12:00 NOON (3 HOURS)

## **INSTRUCTIONS TO CANDIDATES**

- 1. Answer ALL questions in the Answer Booklet.
- 2. Begin **EACH** answer on a new page in the Answer Booklet.
- 3. Indicate clearly answers that are cancelled, if any.
- 4. Where applicable, show clearly steps taken in arriving at the solutions and indicate **ALL** assumptions, if any.
- 5. **DO NOT** open this Question Booklet until instructed.

## Note

- i. There are **EIGHT (8)** pages in this Question Booklet including the cover page
- ii. DOUBLE-SIDED Question Booklet.

Universiti Teknologi PETRONAS

- a. Develop an Advanced Business Application Programming (ABAP) program with input as shown in FIGURE Q1a and an output as shown in FIGURE Q1b, using the following requirements:
  - Use Do ... Enddo syntax.
  - Use sy-index as your looping indicator.
  - Use exit syntax to terminate your loop.
  - MIN\_NUM is of type integer referring to the initial number that you
    want to start. While MAX\_NUM is of type integer referring to the
    maximum number that you want to stop.
  - ROW is of type integer referring to the maximum number of rows that your output should have.



FIGURE Q1a: Input

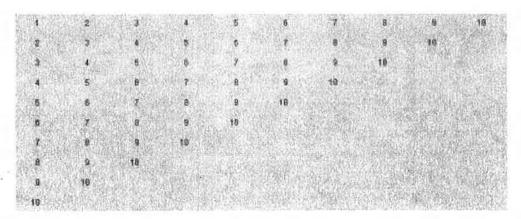


FIGURE Q1b: Output

[14 marks]

TEB3323

b. Describe the function of DATA.

[2 marks]

c. Explain **TWO (2)** components of a work process.

[4 marks]

- 2. a. Develop an ABAP program based on the following requirements:
  - zsemester is a table type, ztsemester is a structure type and zstudent is a table.
  - Start the main program by calling a subroutine calc\_tuition and pass the internal table it semester to the subroutine.
  - The internal table it\_semester should have the updated value after the subroutine operation ends.
  - Declare a local work area in a subroutine called wa\_calc\_tuition
    to retrieve the data from the zstudent table by selecting name,
    address, major, year and credit\_hours attributes.
  - Store every data into the internal table it calc tuition.
  - If there is data selected or retrieved from the zstudent table, loop the internal table it\_calc\_tuition to modify the tuition value by using the formula in FIGURE Q2.

tuition = 240 \* credit\_hours.

FIGURE Q2: Tuition

[14 marks]

b. Identify the maximum number of external and internal sessions that a user can open simultaneously during one user terminal session.

[2 marks]

 Illustrate a user dispatching process in the three-tier client-server architecture of the R/3 systems.

[4 marks]

a. Psychographics is one of the marketing strategies used in e-business.
 Analyze this marketing strategy with example.

[4 marks]

b. Interpret territorial jurisdiction with TWO (2) examples.

[4 Marks]

c. i. Describe the term 'domain tasting'.

[2 Marks]

ii. Based on part (c)(i), illustrate its negative effects on web users.

[2 Marks]

d. Analyze global marketing elements that marketer should consider in ebusiness.

[4 Marks]

e. Differentiate between a network access provider and an internet service provider.

[4 Marks]

4. a. Consider the guidelines in FIGURE Q4a:

- address **structure contains** room\_no, village **and** building.
- department structure contains dept\_code and program\_code.
- student structure contains name, address structure
   and department structure.

FIGURE Q4a: Guideline of Structures

i. Construct an ABAP code to create three structured data types called address, department and student.

[8 marks]

ii. Consider the data object and customer information as shown in FIGURE Q4b and TABLE Q4 respectively.

Data: wa\_student type student.

FIGURE Q4b: Data Object

**TABLE Q4:** Customer Information

Name	Room	Village	Building	Dept	Program
	No			Code	Code
Mike Dooley	202	V5	Iris	CIS	BIS

Assign the data into the structures defined in part (a)(i).

[4 marks]

- iii. Construct an ABAP code to display all data inserted in **part (a)(ii)**. [4 marks]
- b. Differentiate TWO (2) ways of accessing records in internal tables.[4 marks]

5. a. Explain Value Added Network (VAN) with reference to Electronic Data Interchanged (EDI) implementation.

[8 Marks]

b. A website on which it sells products or services has to be similar to those it sells in its physical retail stores. This is called 'touch point consistency'. Analyze Customer Life-Cycle that firms provide level of services which it maintains 'touch point consistency'.

[8 Marks]

c. Design 'Warranty Disclaimer'.

[4 Marks]

-END OF PAPER-