



MALAYSIAN INSTITUTE OF INFORMATION TECHNOLOGY

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**FINAL EXAMINATION  
JANUARY 2016 SEMESTER**

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<b>SUBJECT CODE</b>	<b>:</b>	<b>ITD21203</b>
<b>SUBJECT TITLE</b>	<b>:</b>	<b>ASP.NET WEB PROGRAMMING</b>
<b>LEVEL</b>	<b>:</b>	<b>DIPLOMA</b>
<b>TIME / DURATION</b>	<b>:</b>	<b>3.00 pm – 5.30 pm ( 2 ½ HOURS )</b>
<b>DATE</b>	<b>:</b>	<b>20 MAY 2016</b>

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**INSTRUCTIONS TO CANDIDATES**

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1. Please read the instructions given in the question paper **CAREFULLY**.
2. This question paper is printed on both sides of the paper.
3. This question paper consists of **TWO (2)** sections. Section A and B.
4. Answer **ALL** questions.
5. Please write your answers on the answer booklet provided.
6. Answer **ALL** questions in English.

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**THERE ARE 5 PAGES OF QUESTIONS, EXCLUDING THIS PAGE.**

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**SECTION A (Total: 60 marks)****INSTRUCTION: Answer ALL questions.****Please use the answer booklet provided.****Question 1**

- (a) Visual Studio 2010 supports a number of application file types and extensions. Explain and differentiate between these both:
- i. hello.aspx
  - ii. hello.aspx.cs
- (3 marks)
- (b) List and briefly explain **TWO (2)** advantages of user control when developing a Web application.
- (4 marks)
- (c) List **THREE (3)** methods for adding code in Web Form.
- (3 marks)
- (d) There are **TWO (2)** types of event procedures. Name and differentiate between both of them.
- (5 marks)
- [15 marks]

**Question 2**

- (a) How many **attributes** are defined in a Web form? Explain function and tags included for each attribute.
- (10 marks)
- (b) When does a form postback to itself?
- (2 marks)
- (c) How to determine through code if the **Page\_Load** event is being run as a result of a postback?
- (3 marks)
- [15 marks]

**Question 3**

- (a) What is the purpose of Common Language Runtime (CLR)? Give **ONE (1)** example of CLR components. (3 marks)
- (b) What is MSIL? Why it is needed in application development? (4 marks)
- (c) Name **TWO (2)** properties which is common in every validation control. Then define the steps to set up validation controls in Ms Visual Studio. (5 marks)
- (d) List **THREE (3)** data types that support by Range Validator. (3 marks)
- [15 marks]

**Question 4**

- (a) Briefly explain on the purpose of the following commands for the SQLDataSource control.
- i. Select command
  - ii. Update command
- (2 marks)
- (b) List **TWO (2)** type of tracing and write appropriate syntax to enable it. (6 marks)
- (c) Write code(s) for the following:
- i. A statement that will display a page named Order.aspx. (2 marks)
  - ii. Display a message "There is a postback process" in a label if the postback is true. Otherwise, display "No postback process". (5 marks)
- [15 marks]

**SECTION B (Total: 40 marks)****INSTRUCTION: Answer ALL questions.****Please use the answer booklet provided.****Question 5**

Academic Affairs Division is working on ways to facilitate student with tool for lecturer and student to calculate students' course work (**total mark = 60%**). As a programmer in the university, you are appointed to write event procedures for *Calculate* button and determine type of *validation control(s)* based on the following web form (**coursework.aspx**).

Based on the above web form, **coursework.aspx** ;

- (a) Allows input values for **name**, **matrix number** and **program**.
- (b) Allows user to key-in their **mark gained**. (The percentage and total mark for each assessment will be display as default based on the table below)

Assessment	Total Mark	Percentage
Practical Lab	20	10%
Test 1	15	10%
Quiz	40	10%
Test 2	30	10%
Project	60	20%

- (c) Once user click **Calculate** button, it will display **total course work (%)** for the subject.
- (d) Remark will be displayed based on the total course work calculated. (please refer to table below)

Total Course Work	Remark
41 and above	Strive grade A during final exam for this subject
Between 30 to 40	Double your effort to get good grade for this subject
Less than 30	Need to struggle for final exam to pass this subject

[20 marks]

**Question 6**

ASP.NET provides security of its web application.

- (a) Explain with example the differences between authentication and authorization?  
(6 marks)
- (b) **Warisan Hotel** is a new hotel in Malaysia and in the process of completing their official websites as a promotion tool to attract more visitors and increase their income. As appointed, your team is required to design and develop a customer registration page to complete the web sites. You are required to save name, email address, contact number, favourite vacation location and mode of traveling for each customer. Upon clicking button **Save**, a message shall be display in a label stating that "Your Record Has Been Added" and all information will be stored in database **Hotel** in table **myCustomer**.
- i. Write event procedure for button **Save**.  
(11 marks)
- ii. Write code(s) to set up authorization in Web.config file to deny "Adami" as an authorized user.  
(3 marks)
- [20 marks]

**END OF EXAMINATION QUESTION**

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