



UNIVERSITI KUALA LUMPUR
MALAYSIAN INSTITUTE OF INFORMATION TECHNOLOGY

FINAL EXAMINATION
JANUARY 2016 SEMESTER

COURSE CODE : ICB 26203
COURSE NAME : WEB BASED SOFTWARE DESIGN
PROGRAMME NAME : BACHELOR OF BUSINESS TECHNOLOGY (HONS) IN
COMPUTER ENTREPRENEURIAL MANAGEMENT
DATE : 27 MAY 2016
TIME : 9.00 am – 11.30 am
DURATION : 2 ½ HOURS

INSTRUCTIONS TO CANDIDATES

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 ONLY ONE (1) Section, SECTION A.
4. Answer FOUR (4) of the FIVE (5) questions in SECTION A.
5. Please write your answers on the answer booklet provided.
6. Answer ALL questions in English.

THERE ARE 6 PAGES OF QUESTIONS, INCLUDING THIS PAGE.

SECTION A (Total: 100 marks)**INSTRUCTION: Answer FOUR (4) of the FIVE (5) questions.****Please use the answer booklet provided.****Question 1**

- (a) More users are using Internet banking such as *Maybank2u* for online bill payment and money transfer. Describe how client-server relationship is being used in this application. (5 marks)
- (b) What are the advantages of client-server architecture that enables people to have better access to online reading materials such as *TheStar Online* with video streaming capabilities? (5 marks)
- (c) *Sales Force Automation (SFA)* is one of the three (3) main drivers of Customer Relationship Model (CRM). Do you think that fat-client option will give SFA robust synchronization capabilities including mobile support? (5 marks)
- (d) List **FIVE (5)** considerations for choosing commercial web hosting for an organization that have 50-100 concurrent users. (5 marks)
- (e) Explain the process of database replication in distributed data centres. (5 marks)

Question 2

Refer to the article below:

Importance of POS Systems for Sales (Vazov, Kurt)

Point of sale or POS systems are a necessary and invaluable part of most businesses. While they traditionally referred to an automated cash register, modern technology has seen that change to include a number of other elements that all make a business more efficient and easier to run. Common POS systems include a computer, receipt printer, lockable cash drawer, a scanner to read the bar code, a magnetic swipe reader and a modem and pole display. Then there is the POS software. POS systems these days have come a long way from the early ones and do much more work. In fact they now do so much more that the POS element has now become just one more module in amongst many others, but it is none the less an important part of each business. As well as actually allowing the customer to purchase goods, POS systems allow the business operator to do nearly everything from ordering and purchasing stock to generating reports on sales. As they continue to evolve, many more tasks can be done with POS systems, including the integration of e-commerce for online selling, electronic payment processing, integrated accounting, marketing, video surveillance, and much more. Sales are the most important part of any business and so they come from customers, so POS systems should streamline the customer experience to make it as hassle free and pleasant as possible. For instance, POS systems for the restaurant business can enhance customer loyalty and retention by being used for promotions via email or sms. A member database that supports targeted marketing such as coupons and points schemes has high value in increasing sales and keeping customers. Speed and reliability of service are also important aspects of any POS system - and the ability to add more features seamlessly is always a handy feature. A POS system that is easy to learn and simple to operate will increase efficiency in terms of sales and many other aspects of running a business.

- (a) Draw a diagram to illustrate generic 3-tier client-server architecture of POS system used in restaurant business. (5 marks)
- (b) Describe your understanding about web-based POS system referring to the integration of e-commerce for online transactions. (5 marks)
- (c) Suggest **FIVE (5)** possible access terminals for real-time information in POS network. (5 marks)
- (d) What are the possible databases for POS System that links to internal finance and resources? (5 marks)
- (e) State the important characteristics of a middleware in this 3-tier architecture of a POS system. (5 marks)

Question 3

- (a) How is global stylesheets declared in head element? (5 marks)
- (b) Write the script to generate frames output as shown:

Frame 1	Frame 3	Frame 4
Frame 2		

- (5 marks)
- (c) What are the css pseudoclass selectors (visual styles) used to indicate hyperlink? (5 marks)

- (d) How do you link this script to a .css file:

```
.  
.   
<tr class="yellow">  
<td class="artist">The Beatles</td>  
<td class="title">Revolver</td>  
<td class="comment">Their best work.</td>  
</tr>
```

- (e) Show how to add a pair of radio button for gender in an html form. (5 marks)

(5 marks)

Question 4

- (a) Importing stylesheets is similar to `<link>` method. Write the script for importing `style.css` file. Include the relevant attributes for `<style>` element.

(5 marks)

- (b) Build a horizontal css drop-down menu for About Us which has 5 sub-menus: History, Our Mission, The Team, Clients and Testimonial. Use `:hover` pseudo-class with `display` property.

(10 marks)

- (c) The css class selector allows setting multiple styles to the same element or tag in a document. Show how class selector is used in nested table that display product catalog which has brand name, models, image, price and product description.

(10 marks)

Question 5

- (a) `fieldset` and `legend` elements are used to add structure to forms. Write the script using these elements in `<form>`. Include the relevant attributes. (5 marks)
- (b) Create a loyalty program membership registration form with all possible elements on board including textboxes, checkboxes, radio buttons, selection form, submit button and reset button. (10 marks)
- (c) Format the registration form using **FIVE (5)** stylesheets selector elements. (10 marks)

END OF EXAMINATION PAPER