KUPTM
KOLEJ UNIVERSITI POLY-TECH MARA KUALA LUMPUR

TEST

DIPLOMA IN COMPUTER SCIENCE

COURSE : WEB DESIGN

COURSE CODE : SWC2073

DURATION : 1 HOUR

INSTRUCTIONS TO CANDIDATES:

1. This test aims to fulfil CLO 1 – *Describe the concepts of Internet technologies and their capabilities.*

2. The marks allocated for this test is 20% of total marks.

3. This test consists of **FIVE (5)** questions.

4. Answer **ALL** questions and it must be hand-written.

5. Write down your name, ID, Subject Code and Section No on the front page of your answer sheet.

6. After you have finished, scan your answer and save to pdf format with your Name, Section No, the name of the assessment and the subject code as the file's name. (*Example of the file's name: Ahmad Albab S1 Test SWC2073*)

7. You must submit your assignment ONLINE through Learning Management System (LMS) (*or any other platform*) by (24 JANUARY 2022) before (12.30 pm).

MYKAD / PASSPORT NO	:	_____
ID. NO.	:	_____
LECTURER	:	_____
SECTION	:	_____

DO NOT OPEN THIS QUESTION PAPER UNTIL YOU ARE TOLD TO DO SO

This question paper consists of 2 printed pages including the front page

CONFIDENTIAL JANUARY 2022/SET A/SWC2073

QUESTION 1

What is an Internet Services Provider? Give **TWO (2)** companies provide that service

Internet Services Provider is A business or organization that offers users

access to the Internet and related services.

1) Unifi TM
2) TimeNet

(4 marks)

QUESTION 2

Distinguish between Internet Protocol (IP) and Transmission Control Protocol (TCP).

The Internet Protocol (IP) and the Transmission Control Protocol (TCP) are two of the most important protocols used in the internet. They work together to provide reliable and efficient data transfer between computers.

Internet Protocol (IP) is A data-oriented protocol used for communicating data across a packet-switched inter-network.

Transmission Control Protocol (TCP) is an Applications on networked hosts can create connections to one another, over which they can exchange data or packets, guarantees reliable and in-order delivery of sender to receiver data.

In summary, IP provides the addressing and routing of data packets, while TCP provides the reliability and flow control of the data transfer.

(4 marks)

QUESTION 3

List **FOUR (4)** examples of organizations' domains.
1) Facebook.com
2) Google.com
3) Microsoft.com
4) Netflix.com

(2 marks)

QUESTION 4

Ahmad is a website designer that works with telecommunication companies. His superior asked him to redesign their company website. Briefly explain **FIVE (5)** principles of good website design that will help Ahmad to redesign his company's website. The explanation must be related to Ahmad's company.

1) SIMPLICITY

Simplicity is the best way to go when considering the user experience and the usability of your website – color, type, imagery

2) NAVIGATION

Navigation is the wayfinding system used on websites where visitors interact and find what they are looking for.

3) VISUAL HIERARCHY

One of the most important functions of visual hierarchy is to establish a focal point; this shows visitors where the most important information is.

4) LOAD TIME

Waiting for a website to load will lose visitors. Nearly half of web visitors expect a site to load in 2 seconds or less and they will potentially leave a site that isn't loaded within 3 seconds. Optimizing image sizes will help load your site faster.

5) MOBILE FRIENDLY

More people are using their phones or other devices to browse the web. It is important to consider building your website with a responsive layout where your website can adjust to different screens.

(10 marks)

QUESTION 5

Based on the given description regarding Online Shopping System, create a website storyboard (or site's organization) to show the navigational architecture, information flow and demonstrate how the pages are to work together to provide the user's interactive experience.

Online shopping is a form of electronic commerce which allows consumers to directly buy goods or services from a seller over the Internet using a web browser or a mobile app. Consumers find a product of interest by visiting the website of the retailer directly or by searching among alternative vendors using a shopping search engine, which displays the same product's availability and pricing at different e-retailers. As of 2020, customers can shop online using a range of different computers and devices, including desktop computers, laptops, tablet computers and smartphones.
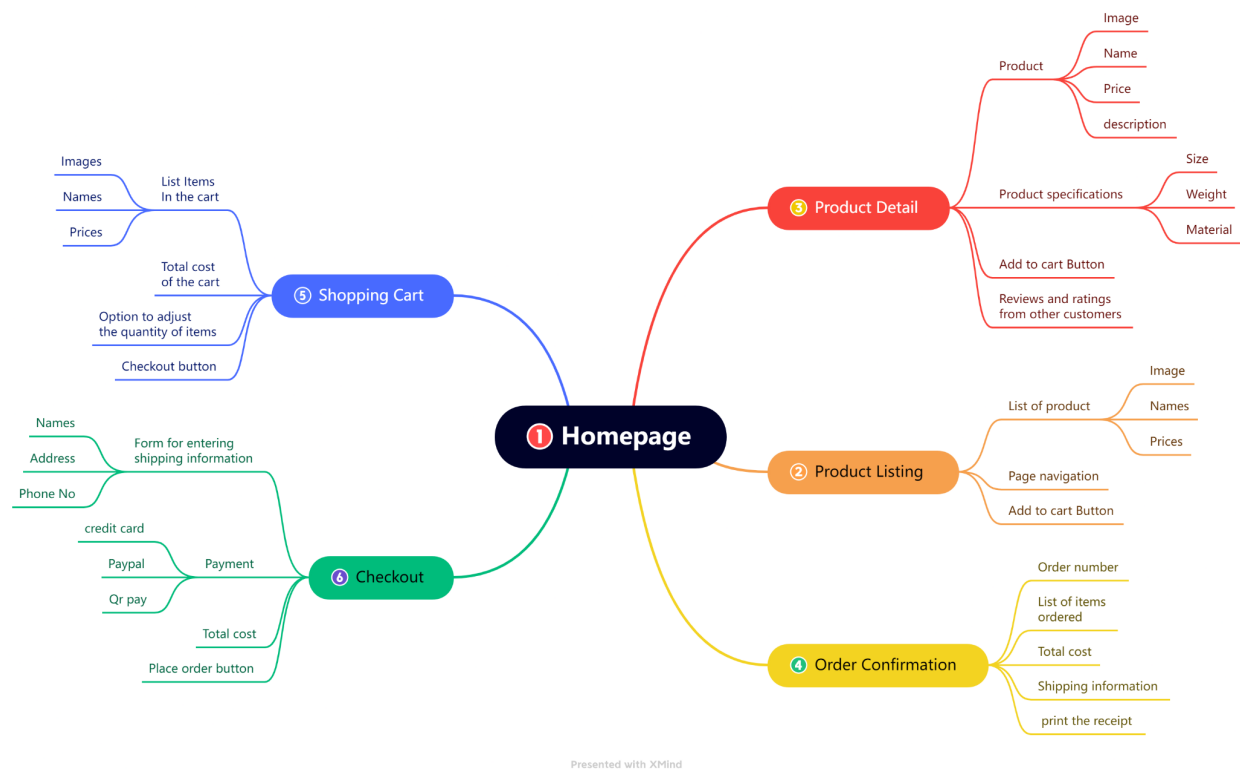
(10 marks)

(TOTAL: 30 MARKS)

END OF QUESTION PAPER