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UNIVERSITI TUN ABDUL RAZAK

FINAL EXAMINATION
NOVEMBER 2023

COURSE TITLE	WEB SYSTEMS AND TECHNOLOGIES
COURSE CODE	RCIT4123
DATE/DAY	16 FEBRUARY 2024 / FRIDAY
TIME/DURATION	09:00 AM - 11:00 AM / 02 Hour(s) 00 Minute(s)

INSTRUCTIONS TO CANDIDATES :

1. Please read the instruction under each section carefully.
2. Candidates are reminded not to bring into examination hall/room any form of written materials or electronic gadget except for stationery that is permitted by the Invigilator.
3. Students who are caught breaching the Examination Rules and Regulation will be charged with an academic dishonesty and if found guilty of the offence, the maximum penalty is expulsion from the University.

(This Question Paper consists of 7 Printed Pages including front page)

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This question paper contains of TWO (2) sections in this examination paper. Please answer ALL questions in the answer booklet provided. **[100 MARKS]**

SECTION A (60 Marks)

There are THIRTY (30) questions this part of the examination paper. Answer ALL questions in the answer booklet.

1. What is chunking?

   A. Repeating information over and over to help memorize it.
   B. Breaking a long list of pieces of information into smaller groups.
   C. Aggregating several pieces of information into coherent groups to make them easier to remember.
   D. None of the above.

2. The people in an HCI study might include _____ .

   A. mobile Device Users.
   B. desktop or Laptop Computer Users.
   C. users who have Technology Embedded in Wearable Items.
   D. all of the above.

3. Which of the following are factors to consider in designing usable interfaces?

   A. The users' expertise and experience with computers.
   B. The impact the interface will have on the cost of the system.
   C. The efficiency of the code that runs the system.
   D. None of the above.

4. What are the most common file types used in websites?

   A. HTML, JavaScript and Word
   B. HTML, JavaScript, CSS and Images
   C. HTML and XML
   D. HTML, JavaScript, CSS and Excel

5. When considering the visual design of a website, which approach was recommended?

   A. Using shocking colors to get attention.
   B. Adding as much information as possible to our pages.
   C. Using more techniques because we want to include every skill we've learned.
   D. Consider how the site will appear to users and seek feedback from potential users.

6. Which network protocol is used to transmitting hypermedia files such as HTML (web files) ?

    A. FTP
    B. SMTP
    C. HTTP
    D. SSH

7. A computer on the internet is identified by _____ .

    A. email address
    B. IP address
    C. server address
    D. FTR address

8. The main page on a website is known as a _____.

    A. bookmark page
    B. content page
    C. home page
    D. navigator page

9. MP4, MOV and AVI are used as extensions for files which store _____.

    A. video
    B. audio
    C. image
    D. executable program

10. Which software prevents the external access to a system?

    A. Firewall
    B. Gateway
    C. Router
    D. Virus checker

11. If a university sets up a web-based information system that faculty could access to record student grades and to advise students, that would be an example of a _____ .

    A. CRM
    B. intranet
    C. ERP
    D. extranet

12. The FTP protocol stands for _____ .

    A. files transfer program
    B. file transfer protocol
    C. file transmigrate protocol
    D. file transfer protection

13. Which one of the following extends a private network across public networks?

    A. local area network
    B. virtual private network
    C. enterprise private network
    D. storage area network

14. A _____ is a set of rules that governs data communication.

    A. frame
    B. protocol
    C. standard
    D. packet

15. The two basic types of signals are analog and _____.

    A. digilog
    B. digital
    C. vetilog
    D. sine wave

16. Software for organizing storage and retrieval of information is a(n) _____ .

    A. Canva
    B. Database Management system (DBMS)
    C. Publishing software
    D. Operating system

17. An important first step in designing your website is to _____ .

    A. choose background colour
    B. identify target user groups
    C. develop feedback form
    D. determine navigation

18. Website should use multimedia _____ .

    A. as much as possible to be impressive
    B. never due to download time
    C. sparingly to support the intent of the site
    D. only audio and not video

19. Morphing is also related to _____ .

    A. text
    B. sound
    C. animation
    D. none of the above

20. The domain name "gov" stands for _____ .

    A. us government
    B. any government
    C. developed nations
    D. none of the above

21. Which of this is **NOT** a good web design step?

    A. Know your audience
    B. Create complex website
    C. Create easy-to-use website
    D. Reduce complexity

22. Optimal solution for web content creation is _____ .

    A. use as many images as possible
    B. site complexity
    C. use as much text and colours as you possibly can
    D. use short and concise phrases

23. The detail below are good design practices **EXCEPT** _____ .

    A. use high contrast between text and background
    B. use lots of white space
    C. simplify your website
    D. put key navigation buttons as footer

24. Describe mobile responsive website.

    A. Website with dialogue boxes and feedback form
    B. Website that is updated often
    C. Website that is designed to respond and adjust to mobile devices
    D. None of the above.

25. WHOIS is a query and response protocol that is widely used for querying databases that store the registered users of an Internet resource, such as a _____ .

    A. HTML
    B. domain name
    C. country name
    D. none of the above

26. Many non-profit institutions have websites in order to promote their work and acquire donations (e.g., NGO). What domain do they usually use?

    A. .edu
    B. .gov
    C. .org
    D. .com

27. Which of the following options allows us to access our e-mail from anywhere?

    A. Forum
    B. Weblog
    C. Message Board
    D. Webmail interface

28. What is the term for unsolicited email?

    A. Spam
    B. Backbone
    C. Usenet
    D. News group

29. SMTP is a _____.

    A. Networking protocol
    B. Protocol used for transferring message
    C. Security tool
    D. Encryption standard

30. Documents converted to _____ can be published to the web.

    A. MS Word document file
    B. machine language
    C. http
    D. HTML

SECTION B   (40 Marks)

There are THREE (3) questions in this part of the examination paper. Answer ALL questions in the answer booklet.

QUESTION 1

Describe **FIVE (5)** main feature that will make a good website design.   (15 marks)

QUESTION 2

Tango Sdn. Bhd. is a Malaysian company that produces beverages/drinks made with pineapple juice. As a web content creator, you have been asked to create a website for this company with 5 pages.

a) Create a sitemap for the pages.   (10 marks)

b) Describe **THREE (3)** features you will include in the homepage.   (5 marks)

QUESTION 3

Describe **TWO (2)** main features provided by web hosting company   (10 marks)

*** **END OF QUESTION PAPER** ***