



*(Knowledge for Development)*

**KIBABII UNIVERSITY**

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**UNIVERSITY EXAMINATIONS  
2019/2020 ACADEMIC YEAR**

**END OF SEMESTER EXAMINATIONS  
YEAR THREE SEMESTER ONE EXAMINATIONS**

**FOR THE DEGREE IN  
(INFORMATION TECHNOLOGY & COMPUTER  
SCIENCE)**

**COURSE CODE : BIT 312/CSC 363E**

**COURSE TITLE : WEB TECHNOLOGIES II/WEB DESIGN**

**DATE: 10/12/2019**

**TIME: 8.00 AM – 10.00 AM**

**INSTRUCTIONS TO CANDIDATES**

**ANSWER QUESTIONS ONE AND ANY OTHER TWO.**

### QUESTION ONE (COMPULSARY) [30 MARKS]

- 1 Which of the following is golden rule for interface design?  
A. Place the user in control                      B. Reduce the user's memory load  
C. Make the interface consistent                D. All of the mentioned
- 2 Which of the following is not a design principle that allow the user to maintain control?  
A. Provide for flexible interaction  
B. Allow user interaction to be interrupt-able and undo-able  
C. Show technical internals from the casual user  
D. Design for direct interaction with objects that appear on the screen
- 3 Which of the following is not a user interface design process?  
A. User, task, and environment analysis and modeling    B. Interface design  
C. Knowledgeable, frequent users                      D. Interface validation
- 4 When users are involved in complex tasks, the demand on \_\_\_\_\_ can be significant.  
A. short-term memory                                  B. shortcuts  
C. objects that appear on the screen                D. all of the mentioned
- 5 Interface consistency implies that  
A. Each application should have its own distinctive look and feel  
B. input mechanisms remain the same throughout the application  
C. Navigation methods are context sensitive  
D. Visual information are organized according to a design standard  
E. B and D
- 6 What is user-interface?  
A. Helps users to communicate using windows, icons with the computer system and application system  
B. It converts program to machine language form  
C. Transmit data to a remote location as packets    D. None of these above
- 7 Site performance is:  
A. registering and renewing web address names    B. ensuring e-mail response is acceptable.  
C. ensuring the website is running continuously.    D. ensuring page download speed is acceptable.  
E. None of the above.
- 8 Domain registration is:  
A. registering and renewing web address names    B. ensuring e-mail response is acceptable.  
C. ensuring the website is running continuously    D. ensuring page download speed is acceptable.    E. None of the above.
- 9 Which of the following is not included in the framework?  
A. font sizes    B. b) css reset    C. c) button styles    D. forms
- 10 On which device can responsive web design be used?  
A. Laptop    B. Smartphone    C. Tablet    D. All of these answers are correct.
- 11 What is responsive web design?  
A. a way of designing web sites that focuses on the viewport of the device.  
B. A way of designing web pages by using cascading style sheets.  
C. Using media queries to determine size of viewports.  
D. All of the above

- 12 Why have layout designs changed?  
 A. They really haven't B. Mobile devices have changed the way we use the Internet.  
 C. Flexible box models do not work D. One size fits all screens.
- 13 What happens without the meta tag viewport code when using a mobile device?  
 A. The browser forces all of the page into a tiny format B. Nothing  
 B. It assumes that you are viewing a desktop device D. Both 1 and 3
- 14 What is WordPress  
 A. It is a software used to press text B. It is a text formatting software  
 C. It is a CMS (Content Management System) D. It is mail service
- 15 Which of the following statements is false about hosting?  
 A. Shared hosting is cheaper than dedicated hosting  
 B. Shared hosting is safer than dedicated hosting  
 C. Dedicated hosting is safer than shared hosting  
 D. Though more expensive than shared hosting, Dedicated hosting is more secure
- 16 What is the purpose of using CMS?  
 A. To Make regular web designing easy  
 B. To reach out to audience with low coding knowledge  
 C. Because it's very user-friendly D. All of the above
- 17 CMS Module is:  
 A. Collection of code files to add more features B. Change the style of Framework  
 C. A framework D. All of the above
- 18 What is the easy way add extra Functionality in CMS?  
 A. Using Plugins/Extensions B. Downloading New Theme  
 C. By going to coding portion D. Making your own theme
- 19 RGB colors on internet applications are called  
 A. safe colors B. colors space C. web colors D. safe web colors
- 20 0 degree of red color in hue image will correspond to  
 A. boundary B. edges C. white region D. black region
- 21 White color in a Cartesian coordinate system can be represented as  
 A. A. (0,1,1) B. (0,1,0) C. (0,0,1) D. (1,1,1)
- 22 Cyan, yellow and magenta are  
 A. primary colors B. white colors C. secondary colors D. tertiary colors
- 23 Part of human eye which is sensitive to red, blue and green light is  
 A. retina B. lens C. cornea D. vision
- 24 Screens of monitors and televisions are made by  
 A. red dots B. red, yellow and green dots C. red, green and blue dots D. white dots
- 25 An embellishment, tag or tail at the end of a letter stroke is known as a?  
 A. Soul Line B. Post Line C. Flexer D. Serif
- 26 Fonts that can be increased at any size without displaying jagged edges are?  
 A. Bitmap Fonts B. False Type Fonts C. Raster Fonts D. True Type Fonts
- 27 A collection of characters of a single size and family is referred to as a?  
 A. Typeface B. Serif C. Font D. Sans Serif
- 28 Define: typography?  
 A. The art and technique of designing with type B. The use of a typewriter.  
 C. The quality of type D. The original text of an author's work
- 29 What is a search engine?

- A. a program that searches engines
- B. a web site that searches anything
- C. a hardware component
- D. a machinery engine that search data

- 30 Which of the following is basic rule for interface design?
- A. Keep it simple and stupid
  - B. Reduce the user's memory load
  - C. Make the interface consistent
  - D. All of the mentioned

### QUESTION TWO [20 MARKS]

- a. Explain the following terms as used in website design
  - i. Wireframe [2 marks]
  - ii. Mockup [2 marks]
  - iii. Prototype [2 marks]
- b. You can control a website's look and feel while letting the owners of information control the content. Briefly discuss how this can be achieved in website development. [4 marks]
- c. What is the purpose of a website storyboard in the website design phase? [2 marks]
- d. You are the team leader in a website design project. Briefly describe the areas you will address in your comp design [8 marks]

### QUESTION THREE [20 MARKS]

- a. Distinguish between analogous and complementary colors as used in web design. [4 marks]
- b. Color can be used to convey different messages in a website. Come up with four ways in which you can use color in website interface design. [8 marks]
- c. Context, content and users are some of the consideration in information architecture design in a website. Briefly describe four facets of content in information architecture. [8 marks]

### QUESTION FOUR [20 MARKS]

- a. Discuss four aspects that makes web application development hard. [8 marks]
- b. Briefly explain any three project management and teamwork best practices (soft skills) you will employ in a website design project. [6 marks]
- c. Website design is a multidisciplinary project. Explain any three potential roles in a website design projects. [6 marks]

### QUESTION FIVE [20 MARKS]

- a. Briefly explain any three web usability principles [6 marks]
- b. Define web accessibility [2 marks]
- c. Responsive website designing is a modern approach of website designing. It comprises of four core elements. Briefly explain any two. [4 marks]
- d. Describe four ways that you can use to speeding up your website. [8 marks]