R0963	Sub. Code
	2BS2C1

B.Voc. DEGREE EXAMINATION, APRIL – 2024

Second Semester

Software Development

WEB TECHNOLOGY

(CBCS – 2022 onwards)

Time : 3 Hours Maximum : 75 Marks

Part A (10 × 1 = 10)

Answer **all** the following objective questions by choosing the correct option.

1. Which of the following computer networks is built on the top of another network? (CO1, K3)

   (a) overlay network (b) prime network

   (c) prior network (d) chief network

2. The arrangement where all data pass through a central computer is known as ————————. (CO1, K2)

   (a) Ring topology (b) Mesh topology

   (c) Star topology (d) Bus topology

3. A set of rules followed by each computer present on a network is called ————————. (CO2, K1)

(a) Web (b) HTTP

(c) Domain (d) Protocol

4. What are shared on the Internet and are called as Web pages? (CO2, K3)

(a) Programs

(b) Cables

(c) Hypertext documents

(d) None of the above

5. The correct sequence of HTML tags for starting a webpage is ————————. (CO3, K2)

(a) Head, Title, HTML, body

(b) HTML, Body, Title, Head

(c) HTML, Head, Title, Body

(d) None of the above

6. What is the default 'type' of type attribute of <input> element? (CO3, K5)

(a) Text (b) Password

(c) Numerals (d) Special Characters

7. Javascript is an ———————— language. (CO4, K4)

(a) Object-Oriented (b) Object-Based

(c) Procedural (d) None of the above

8. In general, event handler is nothing but ————————. (CO4, K4)

(a) function (b) interface

(c) event (d) handler

9. Who developed the bootstrap? (CO5, K3)

(a) James Gosling

(b) Mark Jukervich

(c) Dennis Ritchie

(d) Mark Otto and Jacob Thornton

10. Which of the following class can be used to make the images and other content in a web page automatically adjusts to fit the size of the screen? (CO5, K3)

(a) .img-rounded (b) .img-fluid

(c) .img-circle (d) None of the above

Part B (5 × 5 = 25)

Answer **all** the questions not more than 500 words each.

11. (a) Why network seems to be complex? Explain. (CO1, K2)

Or

(b) Write short notes on recent trends in Internet. (CO1, K2)

12. (a) Explain about types of application layer protocols. (CO2, K3)

Or

(b) Write about the features of DNS in detail. (CO2, K3)

13. (a) Elucidate the basic syntax of XHTML. (CO3, K2)

Or

(b) Write a note on colspan and rowspan attributes. (CO3, K2)

14. (a) Explain about parts of Javascript with example. (CO4, K4)

Or

(b) Give short notes on functions in Javascript. (CO4, K4)

15. (a) Compare mobile-first and desktop-first approach. (CO5, K3)

Or

(b) What arte the steps to create blog layout in Bootstrap? Explain. (CO5, K3)

Part C (5 × 8 = 40)

Answer **all** the questions not more than 1000 words each.

16. (a) Elaborate seven layers of OSI model with neat sketch. (CO1, K3)

Or

(b) How to covert text to multimedia through Internet? Explain. (CO1, K3)

17. (a) How to represent document with HTML? Explain with example. (CO2, K3)

Or

(b) Illustrate FTP connection during the session with paradigm. (CO2, K3)

18. (a) Elaborate the structure of standard HTML document with example. (CO3, K5)

Or

(b) How to create Wikipedia web page using hypertext links? Explain. (CO3, K5)

19. (a) Explain about general syntactic characteristics of Javascript in detail. (CO4, K4)

Or

(b) Describe in detail about the elements of textbox in Event handling. (CO4, K4)

20. (a) What are the five key techniques in mobile-first design approach? Explain. (CO5, K5)

Or

(b) How to implement bootstrap base CSS? Explain. (CO5, K5)

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B.Voc. DEGREE EXAMINATION, APRIL – 2024

Second Semester

Software Development

INTRODUCTION TO MULTIMEDIA

(CBCS – 2022 onwards)

Time : 3 Hours Maximum : 75 Marks

Part A $(10 \times 1 = 10)$

Answer **all** the following objective questions by choosing the correct options.

1. Which of the following is not the component of multimedia? (CO1, K1)

   (a) Text (b) Animation

   (c) Audio (d) Advertisements

2. Typefaces have different style and size known as _____ (CO1, K2)

   (a) bold (b) font

   (c) italics (d) underline

3. The expansion for MIDI is _____. (CO2, K3)

   (a) Musical Instrument Digital Interface

   (b) Musical Instrument Data Interface

   (c) Musical Instructions Digital Interface

   (d) Musical Information Data Interface

4. The amount of data transmitted for a given amount of time is called _____ (CO2, K4)

   (a) Bandwidth (b) Frequency

   (c) Noise (d) Signal power

5. JPEG may be expanded as ————————. (CO3, K4)

(a) Joint photographic Exports Group

(b) Joint Physical Experts Group

(c) Joint Physical Exports Group

(d) Joint Photographic Experts Group

6. TIFF are used for ————————. (CO3, K5)

(a) Vector Graphics (b) Bitmap

(c) both (a) and (b) (d) none of these

7. MPEG is a method for compressing video that involves both ———————— and ———————— compression. (CO4, K1)

(a) Spatial and Temporal

(b) Interaframe and Interframe

(c) Quantization and Entropy

(d) Transform Coding and Predictive Coding

8. The default tool in Adobe Premiere Pro CC is the selection tool, which keyboard shortcut used to change it? (CO4, K1)

(a) S (b) X

(c) Y (d) V

9. Which process is creating interactive multimedia applications that can be delivered through various mediums? (CO5, K2)

(a) Multimedia anchoring

(b) Multimedia authoring

(c) both (a) and (b)

(d) none of these

10. Macromedia Director is a multimedia authoring system that runs on ————————. (CO5, K2)

(a) macintosh (b) PC computer

(c) both (a) and (b) (d) none of these

Part B (5 × 5 = 25)

Answer **all** the questions not more than 500 words each.

11. (a) Write any two applications in multimedia in detail. (CO1, K1)

Or

(b) Discuss about text usage in multimedia. (CO1, K1)

12. (a) Describe in detail about sound synthesis. (CO2, K3)

Or

(b) Write a note on MIDI. (CO2, K3)

13. (a) Differentiate GIF and PNG. (CO3, K4)

Or

(b) List down the advantages of Image editing Software. (CO3, K4)

14. (a) Compare analog and digital video. (CO4, K4)

Or

(b) How do you edit video using adobe primer? Explain. (CO4, K4)

15. (a) Write a short note on macromedia flash. (CO5, K2)

Or

(b) Explain the feature of Authoring Tools. (CO5, K2)

Part C (5 × 8 = 40)

Answer **all** the questions not more than 1000 words each.

16. (a) What are the techniques available in digital fonts? (CO1, K2)

Or

(b) Illustrate the components of multimedia with architecture. (CO1, K2)

17. (a) Discuss in detail about compression and transmission of audio on internet. (CO2, K4)

Or

(b) Discuss in detail about decibel system. (CO2, K4)

18. (a) Discuss about the types of color models in detail with neat diagram. (CO3, K5)

Or

(b) Explain about image compression file format with example. (CO3, K5)

19. (a) Illustrate the architecture of MPEG-4. (CO4, K1)

Or

(b) Write a detailed note on Morphing. (CO4, K1)

20. (a) Explain the various types of tools used in Multimedia Authoring. (CO5, K5)

Or

(b) Write the steps to create animation using flash. (CO5, K5)

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B.Voc. DEGREE EXAMINATION, APRIL – 2024

Fourth Semester

Software Development

INTRODUCTION TO PYTHON PROGRAMMING CONCEPTS

(CBCS – 2022 onwards)

Time : 3 Hours Maximum : 75 Marks

Part A (10 × 1 = 10)

Answer **all** the following objective questions by choosing the correct option.

1. ———— is defined as graphical representation of the logic for problem solving. (CO1, K1)

   (a) Flow chart (b) Function

   (c) Iteration (d) Control Flow

2. What is an example of top-down programming in Python? (CO1, K1)

   (a) A function that calculates the factorial of a number

   (b) A class that represents a bank account

   (c) A program that sorts a list of numbers

   (d) All of the above

3. ———— is used to define a block of code in Python language. (CO2, K3)

   (a) Indentation (b) Key

   (c) Brackets (d) All of the above

4. What will be the output of the following Python code snippet if x=1? x<<2 (CO2, K3)

(a) 4 (b) 2

(c) 1 (d) 8

5. ———— function is used to get input from the user. (CO3, K4)

(a) Input () (b) rawinput ()

(c) raw_input () (d) string ()

6. How many times will the loop run? (CO3, K4)

```
i=2
while(i>0);
i=i-1
```

(a) 2 (b) 3

(c) 1 (d) 0

7. d = {“john”:40, “peter”:45}. (CO4, K3)

The above programming command is used to obtain the number of entries in ————.

(a) d.size() (b) len(d)

(c) size(d) (d) d.len()

8. ———— keyword is used for function. (CO4, K3)

(a) Fun (b) Define

(c) def (d) Function

9. Abstract data type (ADT) is ————. (CO5, K4)

(a) A mathematical model for data types

(b) A collection of components and their interactions

(c) A data type defined by its behavior

(d) All of the above

10. ———————— is not a fundamental features of OOP. (CO5, K4)

(a) Encapsulation (b) Inheritance

(c) Instantiation (d) Polymorphism

Part B (5 × 5 = 25)

Answer **all** the questions not more than 500 words each.

11. (a) Differentiate top-down and bottom-up Programming. (CO1, K1)

Or

(b) Explain about Flowcharts with suitable example. (CO1, K1)

12. (a) Write a note on Python Interpreter. (CO2, K3)

Or

(b) Illustrate Structure of Python Programming with neat sketch. (CO2, K3)

13. (a) Compare Break, Continue and Pass statements. (CO3, K4)

Or

(b) Write a Python Program to check the given number is PALINDROME OR NOT. (CO3, K4)

14. (a) Discuss about python modules with example. (CO4, K3)

Or

(b) Write a Python Program to print FACTORIAL value using Function. (CO4, K3)

15. (a) Explain try. Except block with example. (CO5, K4)

Or

(b) Illustrate ADT with neat sketch. (CO5, K4)

Part C (5 × 8 = 40)

Answer **all** the questions not more than 1000 words each.

16. (a) Explain the types of errors in programming. (CO1, K1)

Or

(b) Write a detailed note on Debugging. (CO1, K1)

17. (a) Discuss about types of Literals in detail with neat sketch. (CO2, K3)

Or

(b) Explain in detail about types of Operators in python with example program. (CO2, K3)

18. (a) Describe in detail about Conditional Statements with suitable program. (CO3, K4)

Or

(b) Discuss about Iteration statement in detail with example. (CO3, K4)

19. (a) Explain in detail about list and its various operations with example. (CO4, K3)

Or

(b) Write short notes on functions in detail. (CO4, K3)

20. (a) Describe about Exception Handling in detail. (CO5, K4)

Or

(b) Elaborate the concept of Inheritance with example. (CO5, K4)

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B.Voc. DEGREE EXAMINATION, APRIL – 2024

Fourth Semester

Software Development

COMPUTER NETWORKS AND ADMINISTRATION

(CBCS – 2022 onwards)

Time : 3 Hours Maximum : 75 Marks

Part A (10 × 1 = 10)

Answer **all** the following objective questions by choosing the correct options.

1. A collection of hyperlinked documents on the internet forms the ———— (CO1, K3)

   (a) World Wide Web (WWW)

   (b) E-mail system

   (c) Mailing list

   (d) Hypertext Markup Language

2. Wireless transmission media is also known as ———— (CO1, K1)

   (a) Guided transmission media

   (b) Unguided transmission media

   (c) Bounded transmission media

   (d) All of the above

3. Which layer is used to link the network support layers and user support layers? (CO2, K4)

   (a) session layer (b) data link layer

   (c) transport layer (d) network layer

4. TCP/IP model does not have ———— layer but OSI model have this layer. (CO2, K3)

(a) session layer (b) transport layer

(c) application layer (d) network layer

5. Which of the following is not a phase of virtual circuit network? (CO3, K2)

(a) Setup phase

(b) Data transfer phase

(c) Termination phase

(d) Teardown phase

6. A local telephone network is an example of a ———— network. (CO3, K2)

(a) Packet switched (b) Circuit switched

(c) Bit switched (d) Line switched

7. An algorithm in encryption is called ———— (CO4, K2)

(a) Algorithm (b) Procedure

(c) Cipher (d) Module

8. When a hash function is used to provide message authentication, the hash function value is referred to as ———— (CO4, K5)

(a) Message Field (b) Message Digest

(c) Message Score (d) Message Leap

9. Performance management is closely related to ———— (CO5, K1)

(a) Proactive Fault Management

(b) Fault Management

(c) Reactive Fault Management

(d) Preventive Fault Management

10. Control of users access to network resources through charges is the main responsibility of ———— (CO5, K3)

(a) Reactive Fault Management

(b) Reconfigured Fault Management

(c) Accounting Management

(d) Security Management

Part B ($5 \times 5 = 25$)

Answer **all** the questions not more than 500 words each.

11. (a) Compare software and hardware network. (CO1, K1)

Or

(b) Write a note on twisted pairs. (CO1, K1)

12. (a) Explain about physical layer in OSI model. (CO2, K3)

Or

(b) Discuss about role bf transport layer in TCP/IP protocol suite. (CO2, K3)

13. (a) Write about data link layer in IEEE standards. (CO3, K2)

Or

(b) Elaborate the characteristics of LAN. (CO3, K2)

14. (a) What are the security services available in network? Explain. (CO4, K5)

Or

(b) Discuss the criteria of hash function in detail. (CO4, K5)

15. (a) Why do we need network management? Explain. (CO5, K3)

Or

(b) Differentiate authentication and authorization. (CO5, K3)

Part C (5 × 8 = 40)

Answer **all** the questions not more than 1000 words each.

16. (a) Write about types of network hardware in detail. (CO1, K3)

Or

(b) Explain about wireless transmission waves in detail. (CO1, K3)

17. (a) Illustrate the layers of OSI model in detail. (CO2, K3)

Or

(b) Explain about TCP/IP protocol suite in detail. (CO2, K3)

18. (a) Illustrate architecture of LAN with neat sketch. (CO3, K2)

Or

(b) How to work with wireless LAN? Explain with example. (CO3, K2)

19. (a) Differentiate symmetric and asymmetric key cryptography. (CO4, K2)

Or

(b) Explain about message authentication in detail. (CO4, K2)

20. (a) What are the protocols available in network management? Explain. (CO5, K1)

Or

(b) Compare reactive and proactive fault management. (CO5, K1)
