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S.B Arts & K.C.P Science College, Vijayapur

BSC II SEM First Internal Test 2022-23

Course code:21BSC2C2CS2L **Subject : Data Structures using C**

Time: 1 Hour **Max. Marks :30**

Part-I	**Answer any Five of the following**	**(2x5=10)**
Q1	Define Data Structure ?	
Q2	List any four operations performed on data structure ?	
Q3	Define Recursion ?	
Q4	Write any 4 Applications of Stack ?	
Q5	Compare Queue and Circular queue ?	
Q6	Define Searching and Sorting ?	
Part-II	**Answer any Two of the following**	**(5x2=10)**
Q1	Compare Linear and Binary Search ?	
Q2	Write a note on stack ?	
Q3	Convert the following expression to postfix **(i) A+B** **(ii) (a+b)*(c-d)** **(iii)** $\frac{a + (b * c) - d}{q}$	
Part-III	**Answer any Two of the following**	**(5x2=10)**
Q1	Explain Bubble Sort Technique ? with Example.	
Q2	Write a program to find G.C.D of two numbers using recursive function.	
Q3	Evaluate the postfix expression **AC – AB + *** where A=10.6 B=6.2 and C =8.4	

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BSC IV SEM \ I[st] Internal Test 2022-23 \ Database Management System
Time: 1 Hour Max. Marks: 30

Q I Answer any Five of the following **5 X 2=10**

1. What is meant by DBMS?
2. Define Data Model
3. What is meant by Interface?
4. Different between strong entity and weak entity
5. What is meant by Construct?
6. Define Entity & Attribute

Q II Answer any Two of the following **2 X 5=10**

7. What are the characteristics of DBMS
8. Draw ER diagram of Company
9. What is ER Model and why we use ER diagram in DBMS

Q III Answer any Two of the following **2 X 5=10**

10. Illustrate on Database User
11. List out different types of key attributes & explain them with example
12. What is meant by Database Architecture? Explain their types

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BSC IV SEM \ I[st] Internal Test 2022-23 \ Database Management System
Time: 1 Hour Max. Marks: 30

First Internal Test for B.Sc VI Semester – 2022-23

Subject: Web Technology (Paper I) **Max Marks 20**

Answer any five questions **(5x4=20)**

1) Explain the structure of an HTML document.
2) Describe the difference between block-level and inline elements in HTML.
3) Explain the purpose of the <meta> tag in HTML.
4) What are the different types of lists in HTML, and how do you create them?
5) Explain the concept of callback functions in JavaScript and provide an example of their usage.
6) Explain the concept of event handling in JavaScript and provide an example.

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S.B. Arts and K.C.P. Science College, Vijayapur

First Internal Test for BSc –IV Sem for the year 2022-23

Skill Enhancement Course – Artificial Intelligence

Time : 1 hour Max. Marks:20

Date:

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1. AI stands for
   a) Artificial Intelligence b) Art of Intelligence c) All Intelligence d) Actual Intelligence
2. **What is Artificial Intelligence?**
   a) Artificial Intelligence is a field that aims to make humans more intelligent
   b) Artificial Intelligence is a field that aims to improve the security
   c) Artificial Intelligence is a field that aims to develop intelligent machines
   d) Artificial Intelligence is a field that aims to mine the data
3. **The capacity of software to interpret the world visually through cameras, videos, and images**
   a) Machine Learning
   b) Anomaly detection
   c) Computer Vision
   d) None of the above
4. **A traffic monitoring solution to identify the location of different classes of vehicle. Is example of**
   a) Object detection b) Image Classification c) Natural Language Processing d) All of them
5. **Who is the inventor of Artificial Intelligence?**
   a) Geoffrey Hinton b) Andrew Ng c) John McCarthy d) Jurgen Schmidhuber
6. **Which of the following is an application of Artificial Intelligence?**
   a) It helps to exploit vulnerabilities to secure the firm
   b) Language understanding and problem-solving (Text analytics and NLP)
   c) Easy to create a website
   d) It helps to deploy applications on the cloud
7. **In college office daily attendance through Biometric machine is an example of which of the following?**
   a) Face Detection b) Image Classification c) Natural Language Processing d) All of them
8. **Which of the following technique extracts information from scanned documents such as letters, invoices or forms?**
   a) OCR b) OMR c) OTR d) None of them
9. **A predictive app provides audio output for visually impaired users. Which principle of Responsible AI is reflected here?**
   a) Transparency b) inclusiveness c) Fairness d) Accountability
10. **If system is trained by labeling the objects is called**
    a) Supervised ML b) Unsupervised ML c) Self-Learning d) None of Them
11. **What are the main features and capabilities of Machine Learning?**
    a) Pipelines b) Automated machine learning c) Azure machine learning designer d) All

12. AI applications to "see" the world and make sense of it

a) Computer Vision b) Real time vision c) Machine vision d) None

13. Which of the following is an example of natural language processing (NLP)?

a) Facial recognition b)Speech recognition c) Image classification d) Sensor data analysis

14. You are designing an AI application that uses images to detect cracks in car windshields and warn drivers when a windshield should be repaired or replaced. What AI workload is described?

a) Computer Vision b) Anomaly Detection c) NLP d) All of them

15. Which of the following are the 5 big ideas of AI

a) Perception b) Human – AI Interaction c) Societal impact d) all of them

16. You want to use the Computer Vision service to analyze images. You also want to use the Language service to analyze text. You want developers to require only one key and endpoint to access all of your services. What kind of resource should you create in your Azure subscription?

a) Computer Vision b) Cognitive Services c) Natural language Processing d) None

17. When might you see NaN returned for a score in Language Detection?

a) When the score calculated by the service is outside the range of 0 to 1
b) When the predominant language in the text is mixed with other languages
c) When the language is ambiguous
d) When the document is negative

18. You need to build an app that will read recipe instructions aloud to support users who have reduced vision. Which service should you use?

a) Text Analytics b) Translator Text c) Speech d) Language Understanding

19. Which of the following is a component of Artificial Intelligence?

a) Learning b) Training c) Designing d) Puzzling

20. Based on which of the following parameter Artificial Intelligence is categorized?

a) Based on functionality only b) Based on capability only
c) Based on capabilities and functionality d) It is not categorized

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S.B. Arts and K.C.P. Science College, Vijayapur

First Internal Test for BA –II Semester for the year 2022-23

Skill Enhancement Course – Digital Fluency

Time : 1 hour

Date:14/7/2023

Max. Marks:25

1. Who is father of Computer?
   a) James Gosling b) Charles Babbage c) Dennis Ritchie d) Bjane Stroustup
2. **What is the full form CPU?**
   a) Computer Processing Unit b) Computer Principle Unit
   c) Central Processing Unit d) Control Processing Unit
3. **Which of the following language does the computer understand**
   a) Computer understands only C language b) Computer understands only Assembly language
   c) Computer understands only Binary language d) Computer understands only Basic
4. **Which of the following is the brain of the computer?**
   a) Central Processing Unit b) Memory c) Arithmetic and Logic Unit d) Control Unit
5. **Which of the following is not a part of a Computer System?**
   a) Monitor b) Keyboard c) Printer d) Telephone
6. **What is an Operating System?**
   a) interface between the hardware and application programs
   b) collection of programs that manages hardware resources
   c) system service provider to the application programs
   d) all of the above
7. **Which of the following is an input device?**
   a) Printer b) Monitor c) Mouse d) Speaker
8. **What is the function of a CPU?**
   a) To process data b) To store data c) To display data d) To input data
9. **Which of the following is a type of storage device for a computer?**
   a) Mouse b) Keyboard c) Hard drive d) Monitor
10. **Which operating is designed specifically for mobile devices such as smartphones and tablets?**
    a) windows b) Android c) MacOS d) Linux
11. **Which of the following is the smallest unit of data in a computer?**
    a) Byte b) Bit c) Nibble d) Kilobyte
12. **Which generation is based on VLSI technology?**
    a) First Generation b) Second Generation c) Third Generation d) Fourth Generation
13. **Which of the following computer memory is faster?**
    a) Register b)ROM c) RAM d) Hard disk
14. **Data in _____ bytes size is called Big Data.**
    a) Tera b) Giga c) Peta d) Meta
15. **Google Docs is similar to which of the following application?**
    a) Microsoft Outlook b) Microsoft Word c) Text Document d) Microsoft Excel

P.T.O

16._____ is a cloud based storage service which is developed by Google?

a) Google Docs b) Google Drive c) Google Chrome d) Google Slides

17. Expand "UNIAC"

a) United Account b) Universal Account

c) Universal Automatic Computer d) Unique Automated Computer

18.Which of the following is a secondary storage device?

a) Read only Memory b) Random Access Memory c) Hard disk d) Flash Memory

19.AI stands for

a) Artificial Intelligence b) Art of Intelligence c) All Intelligence d) Actual Intelligence

20.Applications of AI are __

a) Smartphone Face Lock b) Email Spam Detection c) Chatbots d) All

21. Example of AI chatbots _____

a) Alexa b) Siri c) Both a & b d) None

22.Types of Machine Learning methods are

a) Supervised b) Unsupervised c) Semi-supervised d) All

23.Expand IoT

a) Industrial of Things b) International of Things c) Insect of Things d) Internet of Things

24.The process of analyzing large amount of data is known as

a) Large data analytics b) Huge data analytics c) Big Data d) None of the above

25.Examples of Smart Devices

a) Smart Phone b) Self driving cars c) Smart watch d) All of them

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BSC IV SEM \ I[st] Internal Test 2022-23 \ Database Management System

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S.B.Arts and K.C.P Science College, Vijayapur
Department of Computer Science
Second Internal Test for B.Sc. V Semester – 2022-23

Subject: Computer Networks (Paper I) **Max Marks: 80**

SECTION -A

Q.I Answer any *Ten* of the following **(10X2=20)**

1. Define Computer Network.
2. Define Topology? Mention any two names.
3. Mention two uses of data link layer.
4. What is Protocol?
5. What is LAN?
6. Define Packet.
7. Write abbreviations of WWW & DNS.
8. What is Token?
9. What is Flooding?
10. Define Congestion.
11. Mention two services of Network Layer.
12. What is Electronic Mailing?

SECTION-B

Q.II Answer any *Four* of the following **(4X5=20)**

13. Explain TCP/IP model.
14. Explain Twisted-Pair and Co-axial Cables.
15. What is Hamming Code? Elaborate with example.
16. Explain Bluetooth in details
17. Explain Transport Layer and Application Layer Services.
18. Explain Wireless LAN
19. Explain WWW in detail.

SECTION-C

Q.III Answer any *Four* of the following **(4X10=40)**

20. Define switching? Explain circuit switching and packet switching.
21. Explain OSI reference model with diagram.
22. Define error detection and error-correction method/Explain CRC method for error detection.
23. Define ALOHA? Explain types of ALOHA.
24. Explain TCP Protocol in detail
25. Explain Elements of Transport protocols

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Department of Computer Science
First Internal Test for B.Sc V Semester – 2022-23

Subject: : Java Programming (Paper II) **Max Marks 20**

Answer any Two the following **(2 x 2=4)**

1. Define Class and Object ?
2. What is JVM ?
3. What is Static Method in JAVA ?

Answer any One of the following **(6 x 1=6)**

1. Write Difference between Procedural and Object oriented programming?
2. What is Inheritance in JAVA ? Explain with an Example.

Answer any One of the following **(10 x 1=10)**

1. Explain Constructor with Example?
2. Explain Package with Example?

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S. B. ARTS AND K. C. P. SCIENCE COLLEGE, VIJAYAPUR
DEPARTMENT OF COMPUTER SCIENCE
Second Internal Assessment Aug-2023

Semester: IV	Subject: DBMS	Code: 21BSC4C2CS2L
Date: 26/08/2023	Time: 1.30 to 2.30pm	Max. Marks: 30

Q. No. 1.	Answer any FIVE of the following Questions.	2×5=10
a)	What is meant by Normalization?	
b)	What is meant by functional dependencies?	
c)	Define Armstrong axioms for FD's?	
d)	Define First Normal Form?	
e)	What is meant by Join Operation?	
f)	Define trigger?	
Q. No II	**Answer any TWO of the following Questions.**	2×5=10
a)	What are the conditions are required for a relation to be in 2NF, 3NF and BCNF explain with examples.	
b)	Explain the structure of Relational Model	
c)	Describe the Relational Model Constraints	
Q. No III	**Answer any TWO of the following Questions.**	2×5=10
a)	List out the various Basic Relational Algebra Operations .Explain Unary Relational Operations	
b)	Explain types of Some common Aggregate Functions with example	
c)	Write different Key features and concepts of PL/SQL	

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DEPARTMENT OF COMPUTER SCIENCE
Second Internal Assessment Aug-2023

Semester: VI	Subject: Cyber Laws (SEC)	Code: CPSSECT6.3
Date: 26/08/2023	Time: 3.00 to 4.00pm	Max. Marks: 10

Q. No. 1.	**Answer any Two of the following Questions.**	**2×5=10**
a)	Explain Copyright issues in Cyberspace	
b)	List out various key aspects related to e-contract in cyber laws	
c)	Explain briefly about Cyber contravention & Cyber offences	
d)	What are the ideas of cyber hacking to protect the system	

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BSC III SEM /:Object Oriented Programming Concepts and Programming in Java

Ist Internal Test 2022-23

Date : 19/01/2023

Time: 1 Hour **Max. Marks :30**

Answer any Five of the following		**(2x5=10)**
Q1	List various features of Java programming language	
Q2	What is an Object? Give Example	
Q3	Define JVM.	
Q4	What is String? Name the method used to find the length of a string.	
Q5	Define Method Overloading	
Q6	Draw the chart for Visibility Control Modifiers.	
Answer any Two of the following		**(5x2=10)**
Q1	Discuss about various data types associated with java language.	
Q2	What is a Constructor? Write a java program to find the Area of Circle using Constructor.	
Q3	What is an Array? Explain types of arrays in Java with example.	
Answer any Two of the following		**(5x2=10)**
Q1	Explain History and Evolution of Java?	
Q2	What is an Operator? Explain types of operators in Java with example programs	
Q3	With syntax explain decision making statements in Java	

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Department of Computer Science
First Internal Test for B.Sc. V Semester – 2022-23

Date : 23/01/2023

Subject: Fundamental of E-Governance (SEC) Max Marks-10

Answer any two questions (2x5=10)

1. What are the specific types of services types of E-government?

2. What are the implications of equality of access to government information and services?

3. How do ICTs facilitate is good governance?

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First Internal Test for B.Sc V Semester – 2022-23

Date : 18/01/2023

Subject: Computer Networks (Paper I) **Max Marks20**

Answer any four questions **(4x5=20)**

1. Discuss about OSI reference model with neat sketch
2. Explain guided media with neat sketch
3. Explain LAN, MAN, WAN
4. What is Multiplexing? Explain with neat sketch
5. Define Topology? Explain in detail with different types of topology
6. Explain Digital to Analog conversion