

**Sessional Examination,2025**  
**Programme: B.Sc.-IT (GU-FYUGP)**  
**Paper: Web Technology**  
**Semester: V**

*(The marks in the margin indicate full marks for each question)*

Maximum Marks: 40

Maximum Time:2 Hours

- 1. Answer the following in very short: 1x7=7**
- a)Mention one web server name.
  - b) HTML stands for \_\_\_\_\_.(Fill in the blank)
  - c) PHP is a server side scripting language. (State True or False).
  - d) Anchor tag in HTML is used for \_\_\_\_\_ web pages.(Fill in the blank)
  - e) What is full form of URL?
  - f) What is full form of DNS?
  - g) ) What is full form of www?
- 2. Answer the following in short (any three): 3x3=9**
- a) What is CSS? What are different types? What is the use of CSS?
  - b) Briefly write about the structure of a HTML document.
  - c) What is the use of HTML form methods GET and POST?How are they different?
  - d) Create an HTML document consisting of following tags-Heading tags(h1 to h6), paragraph tag and image tag.
  - e) What is a domain name system? Why is it used?
- 3. Write short notes on (any three): 4x3=12**
- a) Firewall.
  - b) Client-Server Architecture.
  - c) Evolution of the internet.
  - d) Web Server.
  - e) Advantages of JavaScript.
- 4. Create an html page showing registration of an user including fields listed below – Name, Email, Password, Photo, Password, Confirm Password. Also create a php action page to display all the data in the server side. 6 + 6 = 12**

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**Sessional Examination,2025**  
**Programme: B.Sc.-IT (GU-FYUGP)**  
**Paper: Introduction to C Programming (CIT0100204)**  
**Semester: I**

*(The marks in the margin indicate full marks for each question)*

Maximum Marks: 40

Maximum Time:2 Hour

1. Answer the following in very short: 1x5=5
  - a) Who invented the C language?
  - b) The \_\_\_\_ operator has least precedence in C. (Fill in the blank)
  - c) The printf(...) function in C standard input output header is used to read input from the users. (state **True or False**).
  - d) What is the use of the 'sizeof' operator?
  - e) C is \_\_\_\_\_ language. (Fill in the blank)
2. Answer the following in short( **any four** ): 2x4=8
  - a) What is an identifier? What are the rules for naming an identifier in C?
  - b) What is a variable? How is a variable declared and initialized?
  - c) Give the syntax of if-else statement in C.
  - d) Give the syntax of for loop statement in C.
  - e) Mention the basic data types with their sizes (in bytes) in C.
3. Write the differences between 3.5x2=7
  - a)Compiler Vs Interpreter.
  - b) High Level language Vs Low level language.
  - c) Linker Vs Loader
4. Write programs in C **any four**: 5x4=20
  - a) Write a program to add two numbers.
  - b) Write a program to find the maximum of two numbers.
  - c) Write a program to display the following series:  
  
0, 1, 1, 2, 3, ..... (upto n-th term)
  - d) Write a program to check whether a number is odd or even.
  - e) Write a program to display the factors of a number.

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**Semester: I**

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**Sessional Examination,2025**  
**Programme: B.Sc.-IT (GU-FYUGP)**

**Paper: Object-Oriented Programming through C++ (CIT0400304)**

**Semester: III**

*(The marks in the margin indicate full marks for each question)*

Maximum Marks: 40

Maximum Time:2 Hour

1. **Answer the following in very short:** **1x5=5**

- a) What is class?
- b) What is an object?
- c) What are data members?
- d) C++ is an object-oriented programming language. (state True/False)
- e) How many types of access specifiers are provided in C++?

2. **Answer the following in short( any five ):** **3x5=15**

- a) What is a constructor? What are the different types?
- b) What is a member function? How is it different from normal functions?
- c) What are the characteristics of object-oriented programming?
- d) What is pointer dereferencing? Explain with an example.
- e) What do you mean by Inline function? Give an example.
- f) What is the scope resolution operator? Explain its importance
- g) What is function? Explain call by reference

3. **Write programs in C++:** **5x4=20**

- a) Create a class in C++ to represent a Cartesian point having co-ordinates (x,y), also give at least one constructor and a member function to calculate the distance between two points.
- b) Create a class to demonstrate constructor overloading.
- c) With the help of a program, demonstrate function overloading in C++.
- d) Define a class employee with the data member empno, ename, basic, hra, da and two function to compute net pay as basic+hra+da with float return type and to display all the data on the screen .Write a main program to test the program

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**Semester: III**

*(The marks in the margin indicate full marks for each question)*

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**Sessional Examination,2025**  
**Programme: B.Sc.-IT (GU-FYUGP)**  
**Paper: LaTeX(SEC400XXX)**  
**Semester: III**

*(The marks in the margin indicate full marks for each question)*

Maximum Marks: 15

Maximum Time:1 Hour

**1. Choose the correct answer: 1x5=5**

i)LaTeX is mainly used for:  
a) Spreadsheet calculations b) Database management  
c) High-quality document preparation d) Image editing

ii) In LaTeX, which command starts the document body?  
a) \startdocument                      b) \begindocument  
c) \begin{document}                      d) \documentclass

iii) Which LaTeX command is used for bold text?  
a) \italic{}                                  b) \bold{}  
c) \textbf{}                                  d) \underline{}

iv) Which LaTeX package is required to insert images?  
a) amsmath                                  b) graphicx  
c) tabularx                                  d) geometry

v) Which of the following is not a LaTeX document class?  
a) article                                      b) report  
c) thesis                                        d) spreadsheet

**2. Answer the following in short( any one ): 5x1=5**

a)Briefly explain the structure of a LaTeX document.  
b) What is LaTeX command? Explain with suitable example.  
c) What is document class in LaTeX? What are its types?  
Explain uses of each type.

**3. Write LaTeX document for (any one): 5x1=5**

a)Create a table that includes:  
i)A header row with bold text  
ii) Merged columns and merged rows using multirow and multicolumn  
iii)Table with alternating row colors using the xcolor package  
b) Create your CV in LaTeX.

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**Paper: LaTeX(SEC400XXX)**  
**Semester: III**

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