

PSG COLLEGE OF ARTS & SCIENCE  
(AUTONOMOUS)

MSc DEGREE EXAMINATION MAY 2024  
(First Semester)

Branch – COMPUTER SCIENCE

FULL STACK WEB DEVELOPMENT

Time: Three Hours

Maximum: 75 Marks

SECTION-A (10 Marks)

Answer ALL questions

ALL questions carry EQUAL marks

(10 × 1 = 10)

- 1 What is the primary purpose of DNS in the internet?  
a) To encrypt data transmission  
b) To resolve domain names to IP addresses  
c) To create websites  
d) To filter internet content
- 2 Which of the following is a server-side scripting language commonly used for web development?  
a) HTML      b) CSS      c) JavaScript      d) PHP
- 3 In an HTML form, what does the <label> element do?  
a) Defines a paragraph of text  
b) Provides a caption or description for a form element  
c) Creates a submit button  
d) Sets the background color of the form
- 4 What is the purpose of a JavaScript Promise?  
a) To execute code asynchronously and handle the result or error  
b) To define conditional statements  
c) To create loops  
d) To declare variables
- 5 Perl is often referred to as a:  
a) Procedural language    b) Functional language  
c) Scripting language    d) Compiled language
- 6 CGI stand for  
a) Command Gate Interface      b) Common Gateway Interface  
c) Common Gate input      d) None of the above
- 7 Which data tier scalability approach allows for the addition of more database servers to handle increased load?  
a) Horizontal scalability      b) Vertical scalability  
c) Static scalability      d) Linear scalability
- 8 What is encryption used for in the data tier?  
a) To improve database performance  
b) To secure data during transmission  
c) To store data in a human-readable format  
d) To organize data into tables
- 9 Which programming languages can be used to parse XML documents?  
a) Only JavaScript  
b) Only Python  
c) Multiple programming languages, including Java, C#, and PHP  
d) None, XML cannot be parsed using programming languages
- 10 A function in PHP which starts with \_\_ (double underscore) is known as  
a) Default Function      b) User Defined Function  
c) Inbuilt Function      d) Magic Function

Cont...

**SECTION - B (35 Marks)**Answer **ALL** questions**ALL** questions carry **EQUAL** Marks (5 × 7 = 35)

- 11.a. Explain the role of the Domain Name Service in the context of web browsing.  
(OR)
- 11.b. Define URL and describe the steps involved in an HTTP transaction between a client and a server.
- 12.a. Explain HTML forms with example.  
(OR)
- 12.b. Compare and contrast Node.Js and Angular.Js in brief.
- 13.a. What is a Scalar Variable. Explain the Built – in functions of PERL programming.  
(OR)
- 13.b. How to generate HTML documents in PERL? Illustrate it with an example.
- 14.a. Discuss on Three-Tier Model for Web Applications.  
(OR)
- 14.b. Explain about selecting records and subtables, inserting records in SQL PRIMER.
- 15.a. Summarize about PHP scripts and statements with example.  
(OR)
- 15.b. Explain XML for Mobile data in detail.

**SECTION -C (30 Marks)**Answer **ANY THREE** questions**ALL** questions carry **EQUAL** Marks (3 × 10 = 30)

- 16 Discuss about the Server- Side technology of web applications.
- 17 Elaborate with an example about JAVA SCRIPT short cut assignment operators and functions.
- 18 What are the features of PERL programming? Explain how to format Numeric Output in PERL.
- 19 Explain about tables and Relational Data.
- 20 Explain with ASP scripts and Statements with example.

Z-Z-Z

END