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**Reg. No. :** .....

**Code No. : 6919**

**Sub. Code : PCSM 22**

M.Sc. (CBCS) DEGREE EXAMINATION, APRIL 2021.

Second Semester

Computer Science – Core

**OPEN SOURCE TECHNOLOGY**

(For those who joined in July 2017 onwards)

Time : Three hours

Maximum : 75 marks

**PART A — (10 × 1 = 10 marks)**

Answer ALL questions.

Choose the correct answer :

1. The first version of UNIX was written in PDP 7 assembly language in  
(a) 1967                      (b) 1968  
(c) 1969                      (d) 1970
2. The \_\_\_\_\_ library is used to read data from a file stream.  
(a) fread                      (b) iread  
(c) oread                      (d) wread

3. A supervisor can change the owner of the file using the \_\_\_\_\_ system call.
- (a) chmod                      (b) chown  
(c) link                        (d) unlink
4. The \_\_\_\_\_ function returns a value that records the current position in a directory stream.
- (a) opendir                    (b) readdir  
(c) seekdir                    (d) telldir
5. PHP is \_\_\_\_\_ scripting language.
- (a) Server side  
(b) Client side  
(c) Outside  
(d) Middle Side
6. PHP scripts starts with
- (a) <php> ... </php>  
(b) <?php . ...?>  
(c) <?php .... php>  
(d) <p> .... </p>

7. What is the use of strlen() function in PHP?
- (a) It returns the type of a string
  - (b) It returns the value of a string
  - (c) It returns the length of a string
  - (d) It returns the subset value of a string
8. Which of the following is the concatenation operator in PHP?
- (a) +
  - (b) -
  - (c) &
  - (d) %
9. Which two predefined variables are used to retrieve information from forms?
- (a) \$GET & \$SET
  - (b) \$\_GET & \$\_SET
  - (c) \$\_\_GET & \$\_\_SET
  - (d) GET & SET
10. Which one of the following statements instantiates the mysqli class?
- (a) mysqli=newmysqli( )
  - (b) \$mysqli = new mysqli( )
  - (c) \$mysqli->new(mysqli( )
  - (d) mysqli->new(mysqli( )

PART B — ( $5 \times 5 = 25$  marks)

Answer ALL questions, choosing either (a) or (b).

Each answer should not exceed 250 words.

11. (a) Write down the characteristics shared by Unix programs and systems.

Or

- (b) Explain about the Linux File Structure.

12. (a) Write a note on Scanning Directories.

Or

- (b) Explain about environment variables.

13. (a) Discuss about client-side technologies.

Or

- (b) Give an overview about PHP variables.

14. (a) Write down the advantages and disadvantages of POST method.

Or

- (b) Explain in detail about creating arrays in PHP.

15. (a) Write about the concept of fetching data from PHP.

Or

- (b) Explain about Editing Data with an HTML form.

PART C — ( $5 \times 8 = 40$  marks)

Answer ALL questions, choosing either (a) or (b).

Each answer should not exceed 600 words.

16. (a) Explain in detail about Shell control structures.

Or

- (b) Discuss about the low-level file access.

17. (a) Briefly explain about File and Directory maintenance.

Or

- (b) Explain about reading from and writing to the terminal.

18. (a) Explain in detail about looping construct.

Or

- (b) Give an overview about defining your own function in PHP.

19. (a) Discuss in detail about String functions in PHP.

Or

- (b) Explain about mathematical operators in PHP.

20. (a) Explain in detail about creating MySQL Databases with PHP.

Or

- (b) Discuss about HTML tables and Database Tables.
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