

MADANAPALLE INSTITUTE OF TECHNOLOGY & SCIENCE, MADANAPALLE
(UGC-AUTONOMOUS)

MCA II Year II Semester (R16) Supplementary End Semester Examinations – Dec 2018

(Regulations: R16)

WEB PROGRAMMING THROUGH PHP

Time: 3Hrs

Max Marks: 50

Attempt all the questions. All parts of the question must be answered in one place only.

In Q.no 1 to 5 answer either Part-A or B only

Q.1(A) What is String? Write a PHP program that demonstrates the different operations on String. Create a HTML form for getting feedback about the workshop on “Web Programming” organized by MITS. 10M

OR

Q.1(B) i. How are variables and constants declared in PHP? Write a PHP program that demonstrates the usage of decision making control structure. 10M
ii. What is regular expression? Write a PHP program that demonstrates the usage of regular expression in validating values entered in Forms.

Q.2(A) i. Explain the passing by value and reference. Write a PHP program to swap values of two numbers using both of the concepts. 10M
ii. What is function and scope? Write a PHP function that finds the largest of 2 numbers

OR

Q.2(B) Write a recursive function to find the factorial of given numbers? What are the advantages of using recursive function call instead of looping structure? 10M

Q.3(A) Explain the different type of inheritance? Write a PHP program to demonstrate the different types of inheritance. 10M

OR

Q.3(B) i. Define object and class with an example program. 10M
ii. What is function overriding? Write a PHP program to demonstrate the concepts.

Q.4(A) i. What is database management system? Write the advantages of RDBMS over file system. 3M
ii. Explain the web database architecture with a neat diagram. 7M

OR

Q.4(B) i. How will you create primary key and foreign key constraints on database tables? Write an example SQL statements. 5M
ii. Explain the DDL and DML commands in MySQL. 5M

Q.5(A) i. Discuss about tree based parsing of XML with examples. 5M
ii. Explain the implementation of authentication with PHP and MySQL. 5M

OR

Q.5(B) Explain the procedure for connecting to MySQL database from PHP. Write PHP applications that demonstrate the accessing of MySQL database using PHP. 10M

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MCA II Year II Semester (R16) Supplementary End Semester Examinations – Dec 2018

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NETWORK SECURITY ESSENTIALS AND STANDARDS

Time: 3Hrs

Max Marks: 50

Attempt all the questions. All parts of the question must be answered in one place only.

In Q.no 1 to 5 answer either Part-A or B only

Q.1(A) Determine the security services required to counter various types of Active and Passive attacks. What are the common C-functions that give raise to buffer overflow? 10M

OR

Q.1(B) Explain the models of Multi-Level security in computer networks 10M

Q.2(A) i. Briefly explain Digital Signature algorithm 10M
ii. Discuss clearly Secure Hash Algorithm

OR

Q.2(B) i. Explain Diffie-Hellman key exchange algorithm. 10M
ii. Users A and B use the Diffie-Hellman key exchange technique with a common prime $q=71$ and primitive root $g=7$. If user A has private key $x=5$, what is A's Public Key R_1 ? If user B has private key $y=12$, what is B's public key R_2 ? What is the shared secret key?

Q.3(A) Explain cryptographic Authentication Protocols and their functionalities 10M

OR

Q.3(B) Explain the following 10M
i. KDC
ii. Certification of Authorities

Q.4(A) (a) What is Kerberos? Explain how it provides authenticated service? 10M
(b) Explain the architecture of IPSEC

OR

Q.4(B) i. Define Perfect Forward Secrecy? Explain with example. 10M
ii. Write short note on session key Establishment.

Q.5(A) What are the different cryptographic algorithms used in S/MIME? Explain how S/MIME is better than MIME. 10M

OR

Q.5(B) In PGP, What is the probability that a user with N public keys will have at least one duplicate key ID? Explain. 10M

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