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[ 48 / A-12 ]

SARDAR PATEL UNIVERSITY  
M.Sc. (Information Technology)  
Semester – II External Examinations  
PS02EINT03: Trends in ICT  
12<sup>th</sup> April, 2016

Time: 10:30 AM to 01:30 PM

Max. Marks: 70  
[8]

Q-1 Choose the most appropriate option for each question.

1. UDDI stands for \_\_\_\_\_  
 A. Universal Description Discovery Interaction  
 B. Universal Data Discovery Integration  
 C. Universal Description Discovery Integration  
 D. None of these
2. A \_\_\_\_\_ may have more computing power than mainframe.  
 A. Centralized system  
 B. Distributed system  
 C. A and B both  
 D. None of these
3. \_\_\_\_\_ is a program that generates and transmits responses to client requests for web resources.  
 A. Application server  
 B. Web Server  
 C. A and B Both  
 D. None of these
4. GPU stand for \_\_\_\_\_  
 A. General Processing Unit  
 B. Graphics Processing Unit  
 C. Genius Processing Unit  
 D. None of these
5. Which of the following is the full form of DoS?  
 A. Distribution of Service  
 B. Deploy of Service  
 C. Denial of Service  
 D. Destroy of Service
6. \_\_\_\_\_ type of connection that is formed between two or more Bluetooth enabled devices.  
 A. Scatternet  
 B. Internet  
 C. Piconet  
 D. None of these
7. Which of the following method is called only once in a servlet life cycle?  
 A. init()  
 B. destroy()  
 C. A and B both  
 D. None of these
8. The \_\_\_\_\_ effectively hides the true network addresses.  
 A. Packet filter  
 B. Proxy Server  
 C. Application Gateway  
 D. Circuit-level Gateway

- Q-2 Answer the following questions (Any Seven):** [14]
- a. List advantages of distributed systems over independent personal computers.
  - b. Explain real time systems in brief.
  - c. Differentiate between GET method and POST method.
  - d. Explain application server in brief.
  - e. Discuss about DVD in brief.
  - f. Discuss authentication and authorization.
  - g. What is computer virus? List the different types of computer viruses.
  - h. Explain PICONET in brief.
  - i. List the **two** characteristics of firewall.
- Q-3A.** Explain bus-based multiprocessors. [6]  
**B.** Write a short note on SAP. [6]
- OR**
- B.** Explain 3-tier client/server architecture. [6]
- Q-4A.** Write a short note on optical discs. [6]  
**B.** What is Web Service? Explain SOAP in detail. [6]
- OR**
- B.** (i) Explain different types of primary memory. [6]  
(ii) Discuss in detail about graphics card.
- Q-5A.** Explain IPv6 Base Header with its features. [6]  
**B.** Write a short note on firewall. [6]
- OR**
- B.** List and explain **ANY FIVE** Bluetooth profile in detail. [6]
- Q-6A.** Define Encryption and Decryption. Draw and explain encryption model for symmetric cipher. [6]  
**B.** Define servlet. Draw and explain servlet life cycle. [6]
- OR**
- B.** Write a short note on cloud computing. [6]

**XXXXX**