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**SARDAR PATEL UNIVERSITY**  
**M.Sc. Information Technology**  
**Semester-II External Examination**  
**PS02EINT03 Trends in ICT**

01<sup>st</sup> May 2015

Time: 02:30 PM - 05:30 PM

Total Marks: 70

**Q.1 Give the answers of the following multiple choice questions [8]**

- [1] MTU stands for \_\_\_\_\_.  
[A] Maximum Transfer Unit [B] Meta Token Union  
[C] Minimum Transfer Unit [D] Magical Transfer Unit
- [2] \_\_\_\_\_ is designed to transport and store data.  
[A] Servlet [B] XML  
[C] HTML [D] All of these
- [3] \_\_\_\_\_ map packets to connections and use TCP/IP header fields to keep track of connections.  
[A] Stateless firewalls [B] Stateful firewalls  
[C] Application Gateway [D] None of these
- [4] Full form of DoS is \_\_\_\_\_.  
[A] Distribution of Service [B] Deploy of Service  
[C] Destroy of Service [D] Denial of Service
- [5] \_\_\_\_\_ allows us to run applications on the several parallel servers.  
[A] Clustering [B] Load Balancing  
[C] Failure [D] None of these
- [6] \_\_\_\_\_ Programs run as a separate process on the computer.  
[A] CGI [B] Servlet  
[C] XML [D] All of these
- [7] Which one is true for encryption and decryption?  
[A]  $C = E_k(P)$  [B]  $P = D_k(C)$   
[C]  $D_k(E_k(P)) = P$  [D] All of these
- [8] \_\_\_\_\_ memory is available nearest to processor.  
[A] RAM [B] ROM  
[C] VIRTUAL [D] CACHE

- Q.2 Answer the following short questions [Any Seven] [14]**
- [1] Write down the difference between CRT and LCD.
  - [2] List at least two common display resolutions.
  - [3] Explain NUMA Architecture.
  - [4] Write down the difference between Multiprocessor and Multicomputer.
  - [5] Define Web Site and Web Server.
  - [6] What is Fragmentation? What are the rules for fragmentation?
  - [7] Differentiate between hard real time system and soft real time system.
  - [8] Give various examples of hard real time system and soft real time system.
  - [9] Write down the difference between CGI and Servlet.
- Q.3 Answer the following questions in brief.**
- [A] Write a note on distributed systems. Also discuss its advantages over Independent PCs. [6]
  - [B] Explain Bus based multiprocessor. [6]
- OR**
- [B] What is SAP? List and explain different SAP modules. [6]
- Q.4 Answer the following questions in brief.**
- [A] Explain BD, CD, DVD and HVD in brief. [6]
  - [B] Explain the client side scripting with its advantages and disadvantages. [6]
- OR**
- [B] Write a short note on SOAP Protocol. [6]
- Q.5 Answer the following questions in brief.**
- [A] Discuss the advantages and features of IPv6. [6]
  - [B] Explain the Bluetooth architecture in detail. Also discuss at least two Bluetooth profiles in brief. [6]
- OR**
- [B] What is Cloud Computing? Explain Cloud Computing Services [SaaS, PaaS, and IaaS]. [6]
- Q.6 Answer the following questions in brief.**
- [A] Define servlet. What are the advantages of servlet? Explain servlet model in detail. [6]
  - [B] Write a detailed note on cryptography. Also explain monoalphabetic substitution cipher with proper example. [6]
- OR**
- [B] What is computer virus? List different types of computer virus. Also explain at least three of them in brief. [6]

