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JAYPEE UNIVERSITY OF INFORMATION TECHNOLOGY, WAKNAGHAT

END SEMESTER EXAMINATION-2015

B.TechVI<sup>th</sup> Semester

COURSE CODE: 10B22CI621

MAX. MARKS: 45

COURSE NAME: Information Systems

COURSE CREDITS: 04

MAX. TIME: 3 HRS

*Note: All questions are compulsory. Carrying of mobile phone during examinations will be treated as case of unfair means.*

*Attempt the questions of a section together.*

**Section A**

[9 x 1 = 9 Marks]

1. Trap doors are unintentional threats. (True/False). Justify.
2. Explain altered perception as a part of cyberpsychology.
3. Identify and very briefly describe 'Apathy' flow state in relation with Human Computer Interaction (HCI).
4. Demonstrate SQL injection attack on the SQL query:  
"SELECT name FROM transactions WHERE UserId = ' "+inputUserId + " '";  
to modify the account balance to 10,000 for every account in the table transactions.
5. Do you think the popular site "youtube.com" falls under the affiliation form of participatory culture? Justify.
6. Does dumpster driving make recycle bin a threat? Justify.
7. Create a solicit response operation for the input message called *getRequest* and output message called *getResponse*.
8. Which all new literacies can you relate with the popular chat app Whatsapp.
9. State a challenge that digital natives face in collaborating with digital immigrants.

## Section B

[3x4.5 = 13.5]

1. Create a session bean *playlistBean* that creates playlists of songs. A predefined function *add(SongName)*; is used to add a new song to the playlist. Also create the corresponding remote interface and client component that will access the bean.
2. Create transition diagrams for the coordinator and participant in the two phase protocol, corresponding to various states that a coordinator and a participant goes through in case a participant aborts.
3. Create an XML based request and its corresponding response for a service that takes an integer number as request and responds with all the prime numbers less than that number.

## Section C

1. Explain the flow of information between the various components of a management information system's knowledge store. Illustrate your solution with the help of a block diagram or a flow diagram. [7.5 Marks]
2. Critique on the relation between ICT funding and efficiency of company MIS operations. Base your answer on observations made on a real world case study. [5 Marks]
3. Write short notes on: [10 Marks]
  - a. Creation of bean vs activation of bean
  - b. Concurrency management in a singleton bean
  - c. Selective self preservation of social networking sites
  - d. Positive and negative 'medical' impact of 3D communities
  - e. Interactive web presence of e-Governance