

JAYPEE UNIVERSITY OF INFORMATION TECHNOLOGY, WAKNAGHAT  
 TEST -1 EXAMINATION- September 2016  
 B.Tech (IT) V Semester

COURSE CODE: 10B22CI521

MAX. MARKS: 15

COURSE NAME: Web Application Engineering

COURSE CREDITS: 04

MAX. TIME: 1Hr

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

**Ques 1 [3 Marks]** Explain the functioning of 2-tier and 3-tier web architecture and how the HTTP request is handled by CGI Application Server? Also, discuss the advantages of 3-tier architecture over 2-tier architecture.

**Ques 2 [3 Marks]** Explain the working principle of Google search engine and how it differs from other search engine?

**Ques 3 [3 Marks]** Compare and contrast web project and traditional project? Discuss the stages in Web Development Life Cycle process (WDLC) and how WDLC is important for development and maintenance of website?

**Ques 4 [3 Marks]** Explain the difference between physical, logical, port and specific address. An ISP is granted a block of addresses starting with 150.80.0.0/16. The ISP wants to distribute these blocks to 2600 customers as follows. a. The first group has 200 medium-size businesses; each needs 128 addresses. b. The second group has 400 small businesses; each needs 16 addresses. c. The third group has 2000 households; each needs 4 addresses. Design the sub-blocks and give the slash notation for each sub-block. Find out how many addresses are still available after these allocations.

**Ques 5 [3 Marks]** Why use cascading style sheet? How are they coded? Explain them with example. Develop the given below web page using HTML and CSS according to need:

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"Never increase, beyond what is necessary, the number of entities required to explain anything." William of Ockham (1285-1349)

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