JAYPEE UNIVERSITY OF INFORMATION TECHNOLOGY, WAKNAGHAT
TEST -2 EXAMINATION- Oct 2017
B.Tech (IT) Vth Semester

COURSE CODE: 10B22CI521
COURSE NAME: Web Applications Engineering   MAX. MARKS:25
COURSE CREDITS: 04
                                                   MAX. TIME: One Hour Thirty Minutes

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

Ques 1. [1.5+3.5 = 5 Marks] List the difference between Huffman and arithmetic compression techniques with suitable examples/justifications. Encode the word *SWISS_MISS* by arithmetic coding.

Ques 2. [1.5+3.5 = 5 Marks] Discuss Java Script along with their merits and limitations in brief? Write a Java Script code that takes an integer value (see the diagram) and returns the number with its digits reversed.

Enter an integer	1234	Reverse
Answer		

Note: If the original number had trailing 0s (such as 12340), the new number will not start with 0s.

Ques 3. [1+1+3 = 5 Marks] Compare and contrast PCDATA and CDATA with suitable example. Further, discuss XML along with their merits (at least 5) and limitations (at least 2) in brief. Design the page with XML and CSS.

Oceans

Arctic
Area: 13,000 million km²
Mean depth: 1,200 m

Atlantic
Area: 87,000 million km²
Mean depth: 3,900 m

Pacific
Area: 180,000 million km²
Mean depth: 4,000 m

Indian
Area: 75,000 million km²
Mean depth: 3,900 m

Southern
Area: 20,000 million km²
Mean depth: 4,500 m

Ques 4. [10 Marks] Write the short notes on following with suitable examples/justifications
  (i) getElementsByName and getElementsByTagName
  (ii) JavaScript Regular Expression
  (iii) Popup Boxes
  (iv) XML in real life