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Question Paper Code : X 20433

B.E./B.Tech. DEGREE EXAMINATIONS, NOVEMBER/DECEMBER 2020
Eighth Semester
Electronics and Communication Engineering
EC 6018 – MULTIMEDIA COMPRESSION AND COMMUNICATION
(Regulations 2013)

Time : Three Hours

Maximum : 100 Marks

Answer ALL questions

PART – A

(10×2=20 Marks)

1. What is a hyperlink ?
2. Define animation.
3. Outline the difference between lossless compression and lossy compression.
4. Define compression ratio.
5. Name any two image file formats.
6. Define entropy.
7. What is quality of service ?
8. Define jitter.
9. What is audio streaming ?
10. Define unicast and multicast.

PART – B

(5×13=65 Marks)

11. a) i) Elaborate the various components of multimedia. (7)
ii) Elaborate the role of multimedia in education. (6)
(OR)
b) Elaborate the hardware requirements for setting up a multimedia environment. (13)

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12. a) i) Outline differential pulse code modulation with an example. (7)
ii) Outline linear predictive coding with an example. (6)
(OR)
b) Outline the H.261 video compression standard with a diagram. (13)
13. a) What is Huffman coding ? Outline the steps in dynamic Huffman coding with an example. (13)
(OR)
b) Outline the steps in Lempel-Ziv-Welsh coding with an example. (13)
14. a) What is Voice over IP ? Elaborate the H.323 architecture with a diagram. (13)
(OR)
b) i) Present an outline of Signaling System 7 (SS7). (5)
ii) Present an outline of Codecs. (8)
15. a) Classify multimedia applications, identify the network services the applications need and elaborate on “best of best effort service”. (13)
(OR)
b) Outline the working of Resource Reservation Protocol (RSVP) with an example and relevant diagrams. (13)

PART – C

(1×15=15 Marks)

16. a) Present a comparison of MPEG, MPEG-1, MPEG-2 and MPEG-4 video compression standards. (15)
(OR)
b) Present a comparison of scheduling and policing mechanisms. (15)
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