Program: BE Electronics & Telecommunication Engineering

Curriculum Scheme: Revised 2016

Examination: Third Year Semester V

Course Code: ECCDLO5014 and Course Name: Data Compression and Encryption

Time: 1 hour	Max. Marks: 50
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Note to the students:- All the Questions are compulsory and carry equal marks.

Option A: Prefix condition code Option B: Suffix condition code Option C: Prefix & Suffix condition code Option D: None of the mentioned Q2. Which of the following compression technique uses a triple to send to the receiver side? Option A: LZ77 Dictionary Coding Option B: LZ78 Dictionary Coding Option C: LZW Dictionary Coding Option D: Arithmetic Coding Q3. Compression is inevitable for Option A: Storing data Option B: Transmitting data Option C: Both Option D: It is not required Q4. When the base of the logarithm is 2, then the unit of measure of information is Option B: Bytes Option C: Nats Option D: None of the mentioned Q5. Which is more efficient method?		
Option B: Suffix condition code Option C: Prefix & Suffix condition code Option D: None of the mentioned Q2. Which of the following compression technique uses a triple to send to the receiver side? Option A: LZ77 Dictionary Coding Option B: LZ78 Dictionary Coding Option C: LZW Dictionary Coding Option D: Arithmetic Coding Q3. Compression is inevitable for Option A: Storing data Option B: Transmitting data Option C: Both Option D: It is not required Q4. When the base of the logarithm is 2, then the unit of measure of information is Option B: Bytes Option C: Nats Option D: None of the mentioned Q5. Which is more efficient method?	Q1.	Binary Huffman coding is a
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Option C: Nats Option D: None of the mentioned Q5. Which is more efficient method?	Option A:	Bits
Option D: None of the mentioned Q5. Which is more efficient method?	Option B:	Bytes
Q5. Which is more efficient method?	Option C:	Nats
	Option D:	None of the mentioned
Ontion A: Encoding each symbol of a block	Q5.	Which is more efficient method?
option 7t. I Endouring ducin dynamics of a block	Option A:	Encoding each symbol of a block
Option B: Encoding block of symbols	Option B:	Encoding block of symbols
	Option C:	
Option D: None of the mentioned	Option D:	None of the mentioned
Q6. Which of the following actually helps in achieving compression?	Q6.	Which of the following actually helps in achieving compression?

Option A:	DCT
Option B:	Quantization
Option C:	Truncation
Option D:	Reduction
Q7.	Which DCT coefficients contain the most important image information?
Option A:	coefficients to top left part of the matrix
Option B:	coefficients to the bottom left part of the matrix
Option C:	coefficients to top right part of the matrix
Option D:	coefficients to the top right part of the matrix
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Q8.	A FHD video (1920*1080) requires approximately how many bytes of storage for one second length?
Option A:	6220800
Option B:	49766400
Option C:	6075
Option C:	None of these
Орион Б.	Notice of these
Q9.	A Full HD image (1920*1080) requires approximately how many kilobits of
	storage?
Option A:	24300
Option B:	6075
Option C:	48600
Option D:	None of these
Q10.	The huge noise generated by a jet at 0 ms masks the sound at 10 ms completely
	while the sound at 20 ms is not masked. Which type of masking should be used
	in this case?
Option A:	Temporary masking
Option B:	Auditory masking
Option C:	Temporal Masking
Option D:	Masking is not needed
Q11.	-656 is used as an input to the mu law encoder. What is the quantization code
	generated after encoding?
Option A:	0101
Option B:	101
Option C:	100
Option D:	0100
Q12.	Which of the following is not used in MPEG audio encoding?
Option A:	Frequency domain mapping
Option B:	Frequency sample reconstruction
Option C:	Bit/noise allocation
Option D:	Psychoacoustic model

Q13.	The refresh rate used in movies in frames per second is
Option A:	15
Option B:	16
Option C:	48
Option D:	24
Option 5.	
Q14.	The attack is related to authentication.
Option A:	interception
Option B:	fabrication
Option C:	modification
Option D:	interruption
Орион Б.	Interruption
Q15.	The DES Algorithm Cipher System consists ofrounds (iterations)
	each with a round key
Option A:	12
Option B:	18
Option C:	9
Option C:	16
Option D.	
Q16.	Which of the following is not a key size in AES
Option A:	128
Option B:	256
Option C:	192
Option D:	64
Орион В.	
Q17.	
Option A:	10
Option B:	12
Option C:	14
Option D:	8
Q18.	What is the maximum length of the message (in bits) that can be taken by SHA-512?
Option A:	2128
Option B:	2 ²⁵⁶
Option C:	264
Option D:	2192
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Q19.	Which one of the following is not a higher layer SSL protocol?
Option A:	Alert Protocol
Option B:	Handshake Protocol
Option C:	Alarm Protocol
Option D:	Change Cipher Spec Protocol
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Q20.	The full form of SSL is
Option A:	Serial Session Layer
-	,

Option B:	Secure Socket Layer
Option C:	Session Secure Layer
Option D:	Series Socket Layer
Q21.	$7^3 \mod 19 =$
Option A:	18
Option B:	1
Option C:	14
Option D:	12
Q22.	The principle of ensures that only the sender and the intended
	recipients have access to the contents of a message.
Option A:	confidentiality
Option B:	authentication
Option C:	integrity
Option D:	access control
Q23.	Which of the following transforms is usually used in image compression?
Option A:	Fourier Transform
Option B:	Discrete Cosine Transform
Option C:	Laplace Transform
Option D:	Discrete Compression Transform
Q24.	Which of the following algorithms is the best approach for solving Huffman codes?
Option A:	exhaustive search
Option B:	greedy algorithm
Option C:	brute force algorithm
Option D:	divide and conquer algorithm
Q25.	After the encryption stage in SSL, the maximum length of each fragment is
Option A:	214+1028
Option B:	214+2048
Option C:	216+1028
Option D:	216+2048