Program: BE Electronics and Telecommunication Engineering Curriculum Scheme: Rev2016

Examination: Third Year Semester V

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

Time: 1 hour Max. Marks: 50

Note to the students:- All the Questions are compulsory and carry equal marks.

Q1.	One of the most popular ways of representing dependence in the data is through the use of		
Option A:	physical models		
Option B:	probability models		
Option C:	composite source models		
Option D:	Markov models		
Q2.	What is compression		
Option A:	to compress something by pressing it very hardly		
Option B:	to compress something by pressing it very hardly		
Option C:	to reduce size of data to save space		
Option D:	to convert one file to another		
Q3.	amongst the following which one is the loslesss type of data		
Option A:	audio		
Option B:	video		
Option C:	text		
Option D:	speech		
Q4.	Efficiency of any compression algorithm is calculated as		
Option A:	H/L*100		
Option B:	L/H*100		
Option C:	(H+L)*100		
Option D:	(H-L)*100		
Q5.	LZ78 has compression but very decompression than LZ77.		
Option A:	fast, slow		
Option B:	slow, fast		
Option C:	complex,simple		
Option D:	simple,complex		
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Q6.	Compression ratio isin Lossy.		
Option A:			
Option B:	high		
Option C:	low		
Option D:	10		

07	Digital video is seguence of		
Q7.	Digital video is sequence of		
Option A:	pixels		
Option B:	matrix		
Option C:	frames		
Option D:	coordinates		
Q8.	Wavelet transformation uses		
Option A:	only DC components to match the original signal		
Option B:	a combination of DCT and Fourier Analysis to match the original signal		
Option C:	only harmonics to match the original signal		
Option D:	"curve fitting" to choose a basic waveform closely matching the original signal		
Q9.	The DCT process divide a picture into		
Option A:	vertical lines		
Option B:	round blocks		
Option C:	horizontal lines		
Option D:	square blocks		
Q10.	A video consists of a sequence of		
Option A:	frames		
Option B:	signals		
Option C:	packets		
Option D:	slots		
Q11.	Before audio or video signals can be sent on Internet, they need to be		
Option A:	channelised		
Option B:	managed		
Option C:	digitised		
Option D:	organised		
Q12.	The characteristics of compressor in μ-law companding are		
Option A:	Continuous in nature		
Option B:	Logarithmic in nature		
Option C:	Linear in nature		
Option D:	Discrete in nature		
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Q13.	Which of the following is not a compressed format?		
Option A:	MP3		
Option B:	Bitmap		
Option C:	JPEG		
Option D:	MPEG		
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Q14.	A(n) algorithm transforms ciphertext to plaintext.		
Option A:	encryption		
Option B:	decryption		
Option C:	symmetric		
Option D:	asymmetric		
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Q15.	ECB and CBC are ciphers.		
Option A:	Block		
Option B:	Stream		
Option C:	Field		
Option D:	Bit		
Option D.	Dit		
Q16.	The DES algorithm has a key length of		
Option A:	128 bits		
Option B:	64bits		
Option C:	127 bits		
Option D:	63bits		
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Q17.	Hash Message is signed by sender using		
Option A:	his public key		
Option B:	his private key		
Option C:	reciever public key		
Option D:	reciver private key		
Q18.	SHA-1 produces a hash value of		
Option A:	256 bits		
Option B:	160 bits		
Option C:	128 bits		
Option D:	180 bits		
Q19.	Message authentication code is also known as		
Option A:	key code		
Option B:	hash code		
Option C:	keyed hash function		
Option D:	message key hash function		
Q20.	$a^{\wedge} \varphi(n) \equiv 1 \mod n$. is names as which function		
Option A:	eulers		
Option B:	fermats		
Option C:	primes		
Option D:	hash		
Q21.	The bankthe customer's message after getting the email request for		
	e money.		
Option A:	integrate		
Option B:	access		
Option C:	authenticates		
Option D:	non-repudiate		
022	Which one is not the application of IDC and		
Q22.	Which one is not the application of IPSec?		
Option A:	Secure Remote access		
Option B:	Hacking Secure bronch office connectivity		
Option C: Option D:	Secure branch office connectivity Secure E-Commerce		
	NACHTA H. L. OMMATCA		

Q23.	Governments hired some highly skilled hackers. These types of hackers are termed as	
Option A:	Cyber Intelligence Agents	
Option B:	Special Hackers	
Option C:	Government Hackers	
Option D:	Nation / State sponsored hackers	
Q24.	A creates copies during replication that are functionally equivalent but have distinctly different bit patterns.	
Option A:	Boot Sector Virus	
Option B:	Polymorphic Virus	
Option C:	Parasitic Virus	
Option D:	Macro Virus	
Q25.	AES uses a bit block size and a key size of bits.	
Option A:	128; 128 or 256	
Option B:	64; 128 or 192	
Option C:	256; 128, 192, or 256	
Option D:	128; 128, 192, or 256	

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Question	Correct Option (Enter either 'A' or 'B' or 'C' or 'D')
Q1.	D
Q2.	С
Q3.	С
Q4	A
Q5	В
Q6	В
Q7	С
Q8.	D
Q9.	D
Q10.	A
Q11.	С
Q12.	A
Q13.	В
Q14.	A
Q15.	A
Q16.	В
Q17.	В
Q18.	В
Q19.	С
Q20.	A
Q21.	С
Q22.	В
Q23.	D
Q24.	В
Q25.	D