Q.P. Code: 30261

(3 Hours)

[Total Marks: 80

Instructions: 1. Answer any four questions.

2. Figures to the right indicate maximum marks.

Q1.	Answer the following:	
a)		[05]
b)		[05]
c)		[05]
d)	Explain in brief different generations of CT machines	[05]
Q2.		
a)	How are different stochastic models of digital image classified? Explain each class in detail.	[10]
b)	Explain VLIW architecture in detail. How does it help to optimize the performance of DSPs?	[10]
Q3.		12
a)	With the help of a neat block diagram, explain the working of JPEG 2000 standard.	[10]
b)	Explain in detail any one algorithm to detect QRS wave in ECG.	[10]
Q4.	A CONTRACTOR OF THE PARTY OF TH	
a)	With the help of a neat block diagram, explain how DSP is used in RADAR signal processing.	[10]
b)	What is the limitation of Fourier transform in analyzing speech signals? How is it eliminated in STFT?	[10]
Q5.		
a)	What are DTMF signals? Explain a procedure for decoding DTMF signals.	[10]
b)	What are the various features in mammogram? Explain Image	[10]
	Processing steps involved in extracting those features.	
Q6.	Write short notes on any four of the following:	[20]
a)	Fourier Slice Theorem b) Finger print recognition	
c)	LMS algorithm d) Neural network classifiers	
c)	Feature vectors	
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