JSS MAHAVIDYAPEETIIA JSS SCIENCE AND TECHNOLOGY UNIVERSITY, MYSURU

Department of Electronics and Communication Engineering

Bachelor of Engineering Degree

5th Semester: Test 3

Digital Signal Processing

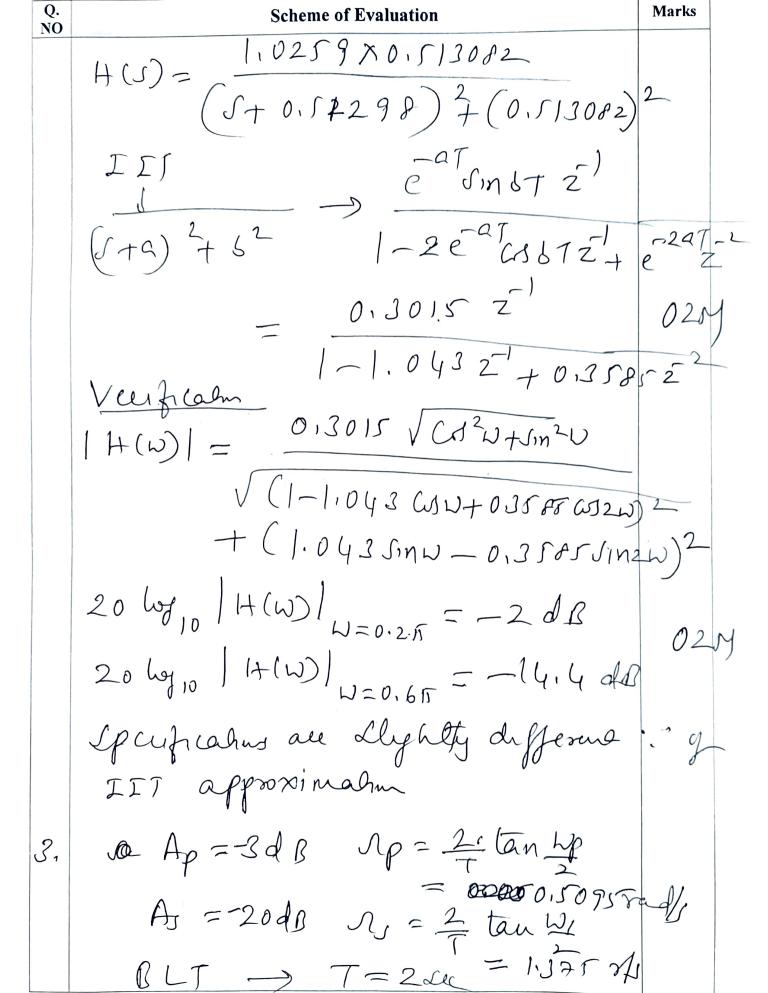
Date: 19.12.23

Max. Marks: 20

/,	7,50 ds attenuation in the stopband	-
	-> Hamning Window	
	$hd(n) = \frac{1}{2\pi} \int_{0}^{\pi/2} e^{\int \omega (n-\tau) d\omega}$	
	215 J	
	$($ $\frac{3\pi}{2}$ $\frac{3\pi}{2}$ $($ $\frac{3\pi}{2}$ \frac	
	$= \begin{cases} \frac{\sqrt{3}}{\sqrt{11}} \left(n-3 \right) \\ \frac{\sqrt{3}}{\sqrt{11}} $	0201
	3 $n=3$	
	(25)	
	Wham (n) = 0.54 -0.46 Cos (21m)) OIM
	0 $<$ n $<$ c	
	$N = 27 + 1 = 2 \times 3 + 1 = 7.$	
£	$2d(n) = \{0.075, -0.159, 0.225, $	02 N
	$d(n) = \begin{cases} 0.075, -0.159, 0.225, \\ 0.75, 0.225, -0.159, 0.075 \end{cases}$	-
	$J_{lem}(n) = \{0.08, 0.31, 0.77, 1, 0.$	
	(3), 0.08)	02 M
$ \mathcal{Q} $		
	(n) = hd(n), When(n) = $\{0.006 - 0.049, 0.173, 0.75, 0.173, 0.75, 0.173, 0.006\}$	OIM
	= 10.006 - 0.049, 0.173, 0.75,	. ,

Scheme of Evaluation

$$H(z) = \frac{1}{2}A(n)z^{n}$$
 $= 0.006(1+z^{6}) - 0.049(z^{1}+z^{5})01M$
 $+ 0.173(z^{1}+z^{4}) + 0.73(z^{3})$
 $+ 0.173(z^{1}+z^{4}) + 0.73(z^{3})$
 $+ 0.094(x^{3}+z^{4}) + 0.73(z^{3})$
 $A_{1} = -1.9326dR$
 $A_{2} = \frac{1}{1}.9394dR$
 $A_{3} = -13.9394dR$
 $A_{4} = -13.9394dR$
 $A_{5} = -13.9394dR$
 $A_{7} = -13.9394dR$
 $A_{7} = -13.9394dR$
 $A_{8} = \frac{1}{1} = 0.6174R$
 $A_{1} = 1 Acc$
 $A_{1} = 1 Acc$
 $A_{2} = 1 Acc$
 $A_{3} = 1 Acc$
 $A_{4} = 1 Acc$
 $A_{5} = 1 Acc$
 $A_{7} = 1 Acc$
 $A_$



Q. NO	Scheme of Evaluation	Marks
	'E = 0,997	014
	N=1,8 %2	OIM
	$H_1(J) = \frac{0.501}{J^2 + 0.6445 + 0.707}$	02 M
	$H(s) = H_1(s) / \frac{s}{s} = \frac{0.52}{5+0.6575+0.5}$	B102M
	$H(2) = H(s) / s = \frac{2}{T} \left(\frac{1-2}{1+2} \right)$	
	$= \frac{0.086 (1+z')^{2}}{1-1.08 z'+0.566 z^{2}}$	02M
	Velificahn $ (w) = \frac{0.086 \times 1 + 0.566 \times 1}{1 - 1.08 \times 10.086 \times 1} $	
	$ H(\omega) = \frac{0.076 \left[\left(1 + \cos \omega \right) + \sin^2 \omega \right]}{1 + \cos \omega}$	
	V(1-1,08 W) +0,566(6)21)2+(1,08)mw+	0.5665hz
	$\frac{20 \log_{10} H(w) }{20 \log_{10} H(w) } = -3 dB$ $\frac{20 \log_{10} H(w) }{20 \log_{10} H(w) } = -22.7 dB$	02 M
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Name & Signature of the Paper Setter:

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