

21/07/202

I)

- 7. Which of the following statement(s) is/are TRUE?
 - a. The power spectrum of the autocovariance $P_{\sigma\sigma}[n]$ is the Fourier transform of the signa
 - b. The power spectrum of the signal $P_{xx}[n]$ is the Fourier transform of the autocovariance
 - c. Both (a) and (b).

c. Both (a) and (b).	
d. Neither (a) nor (b).	f
◎ a	
● b ● c	
C d	
No, the answer is incorrect. Score: 0	in
Accepted Answers:	8 +
8)	1 point
8. If $x[k] \xrightarrow{\mathcal{F}} X(f)$, then select the correct option(s): a. $x\left[\frac{k-D}{\alpha}\right] \xrightarrow{\mathcal{F}} e^{-j\frac{2\pi fD}{\alpha}} X(\alpha f)$. b. $x\left[\frac{k}{\alpha} - D\right] \xrightarrow{\mathcal{F}} e^{-j2\pi f\alpha D} X(\alpha f)$. c. $e^{2\pi f_0 \alpha k} x[\alpha k] \xrightarrow{\mathcal{F}} X(\frac{f-\alpha f_0}{\alpha})$ d. $e^{2\pi f_0 \alpha k} x\left[\frac{k}{\alpha}\right] \xrightarrow{\mathcal{F}} X(\frac{f+\alpha f_0}{\alpha})$	
a b c d No, the answer is incorrect. Score: 0	
Accepted Answers:	
b c	
9)	1 point
 a b c 	
d	
No, the answer is incorrect. Score: 0	
Accepted Answers: b	
10)	
For the questions ${f 10}$ to ${f 15}$ the answer has to be filled as a numeric value (repo	rt the v
to the nearest integer)	

to the nearest integer).

10. The number of unique frequencies in a 512-point DFT is _____

No, the answer is incorrect. Score: 0 Accepted Answers: (Type: String) 257 11) 11. The average power of the signal x(t) = sin(t) + cos(t) is _____. No, the answer is incorrect. Score: 0 Accepted Answers: (Type: String) 1 A signal is provided in the data file a2_sigData.mat. For the given signal answer the que 12 to 15 using MATLAB.

12. The number of periodicities present in the given signal is _____

No, the answer is incorrect.	t
Score: 0 Accepted Answers:	Y
(Type: String) 3	
13)	in
¹³⁾ 13. If the frequency corresponding to the maximum power is f (cycles/sa value of $10f$ is	mple). Then
value of $10f$ is	8
No, the answer is incorrect. Score: 0	
Accepted Answers:	
(Type: String) 1	1 point
14)	i point
14. The value of total power of the signal in the frequency band $[0, 0.5)$ of	cycles/sampl
·	
No, the answer is incorrect. Score: 0	
Accepted Answers:	
(Type: String) 61	1 point
15)	
15. The absolute value of third element of <i>N</i> -point DFT vector is	
(Note: <i>N</i> is the number of data points)	
No, the answer is incorrect. Score: 0	
Accepted Answers:	
(Type: String) 1	1 point
Draviaua Dago	End
Previous Page	End

