

# Download File PDF Signal Processing Interview Questions

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## FUNDAMENTALS OF DIGITAL SIGNAL PROCESSING

### QUESTION BANK

#### UNIT I

##### PART A

1. What is Digital Signal Processing?
2. Distinguish between energy and power signal.
3. How can we prevent aliasing?
4. Classify the signals?
5. What is a multi channel signal?
6. State analog signal.
7. What are even and odd signals?
8. What are the types of systems?
9. What are deterministic and random signals?
10. What are the operations performed on a signal?
11. What are elementary signals and name them?
12. What are the properties of a system?
13. What is memory system and memory less system?
14. Find whether the given system is static or dynamic.  $y(n) = n x(n+5)$
15. Determine z transform and ROC of the signal  $\{1, 2, 3, 4\}$
16. List the mathematical operations performed on discrete time signals.
17. Find whether the given system is linear or not.  $Y(n) = nx(n)$
18. What is meant by ROC?
19. Define z transform.
20. List the various methods of classifying discrete time system.
21. Determine z transform and ROC of the signal  $\{5, 6, 7, 8\}$
22. What are the various methods of representing discrete time signal?
23. How will you classify the discrete time signal?
24. List out some important properties of ROC.
25. Determine the convolution sum of two sequences  $x(n) = \{1, 2, 1, 2\}$  and  $h(n) = \{1, 2, 1, 2\}$ .

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