

- i) Question No.1 is compulsory.
 ii) Answer any four questions out of remaining six questions.
 iii) Figure to the right indicates full marks.
 iv) Illustrate the answers with sketches wherever required.

Q.1 a) Determine whether the following signals are energy or power signals? Calculate their energy or power.

20M

(i) $x(n) = u(n)$

(ii) $x(t) = A \sin t ; -\infty < t < \infty$

b) State & prove the following properties of Fourier transform.

(i) Time shifting

(ii) Differentiation in time domain

c) Check whether following systems are linear or non-linear, Time invariant or time variant causal or non causal, static or dynamic.

(i) $y(t) = x(t) \cos 100\pi t$

(ii) $y(t) = x(t + 10) + x^2(t)$

d) Compare Discrete time Fourier transform & continuous time Fourier transform.

e) State and discuss the properties of region of convergence for Z-transform.

Q.2 a) Determine the exponential form of Fourier series representation of the signal shown in below Figure 2 (a). Hence determine the trigonometric form of Fourier series.

10M

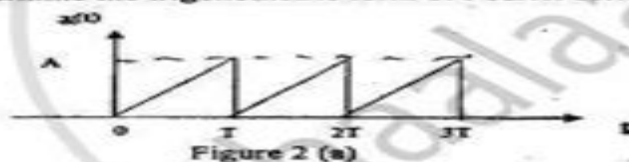


Figure 2 (a)

b) Determine whether following signals are periodic or non-periodic? If periodic find fundamental period

10M

(i) $x(t) = \cos(t) + \sin(\sqrt{2}t)$

(iii) $x(n) = \cos\left(\frac{1}{2}n\right)$

(ii) $x(t) = \sin^2(t)$

(iv) $x(n) = \cos^2\left(\frac{\pi}{8}n\right)$

Q.3 a) The analog signal given below is sampled 600 samples per second

10M

$x(t) = 2 \sin 480\pi t + 3 \sin 720\pi t$

Calculate:-

i) Minimum sampling rate to avoid aliasing.

ii) If the signal is sampled at the rate $F_s = 200\text{Hz}$, what is the discrete time signal after sampling.

iii) If the signal is sampled at the rate $F_s = 75\text{Hz}$, what is the discrete time signal obtained after sampling.

b) Determine the DT sequence associated with z-transform given below

10M

i) $X(z) = \frac{1 - (1/2)z^{-1}}{1 + (1/2)z^{-1}} ; |z| > 1/2 : \text{ROC}$

ii) $X(z) = \frac{z^2 + z}{z^2 + 2z + 1} ; |z| > 3 : \text{ROC}$

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Tobias Bleicker



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GHOSH,2005-01-01 This book offers an excellent and practically oriented introduction to the basic concepts of modern circuit theory It builds a thorough and rigorous understanding of the analysis techniques of electric networks and also explains the essential procedures involved in the synthesis of passive networks Written specifically to meet the needs of undergraduate students of electrical and electronics engineering electronics and communication engineering instrumentation and control engineering and computer science and engineering the book provides modularized coverage of the full spectrum of network theory suitable for a one semester course A balanced emphasis on conceptual understanding and problem solving helps students master the basic principles and properties that govern circuit behaviour A large number of solved examples show students the step by step processes for applying the techniques presented in the text A variety of exercises with answers at the chapter ends allow students to practice the solution methods Besides students pursuing courses in engineering the book is also suitable for self study by those preparing for AMIE and competitive examinations An objective type question bank at the end of book is designed to see how well the students have mastered the material presented in the text **Blockchain Technology for IoT Applications** Seok-Won Lee,Irish Singh,Masoud

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