

T.Y.B.Sc (IT) {Sem – VI}
(Paper – II)
Digital Signals and System
(OCT-16)

QP Code : 78226

[Total Marks: 100]

- N. B.:** (1) All questions are compulsory.
 (2) Make suitable assumptions wherever necessary and state the assumptions made.
 (3) Answers to the same question must be written together.
 (4) Numbers to the right indicate marks.
 (5) Draw neat labeled diagrams wherever necessary.
 (6) Use of Non-programmable calculators is allowed.

1. Attempt any two of the following:

a. Find the Laplace transform for the following signal:



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- b. By first differentiating $X(z)$ and then using appropriate properties, determine $x(n)$ for $X(z) = \log(1 - 2z)$ $|z| < \frac{1}{2}$
 c. Determine the exponential Fourier Series for the waveform shown below:



d. What are the applications of digital signal processing?

2. Attempt any three of the following:

- a. Explain the following properties of Fourier Transform
 i. Linearity ii. Symmetry iii. Scaling
 b. Show that the product of two even signals or two odd signals is an even signal and that the product of an even and an odd signal is an odd signal.
 c. What is even signal and odd signal? Determine the even and odd components of $x(t) = \cos t + \sin t$
 d. Draw and explain the block diagram of an analog – to – digital converter.
 e. What is meant by sampling? State sampling theorem.
 f. Write a note on Dirichlet's conditions.

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3. Attempt any three of the following:

- a. Determine poles, zeroes of $F(s)$. Obtain $f(t)$ if $F(s) = 4 \cdot \frac{(s+1)(s+2)}{(s+2)^2(s+4)}$
 b. Obtain Laplace transform for step and Impulse Responses of Series R-C Circuit.
 c. Find inverse laplace transform of $F_1(s) = \frac{s^2 + 5}{s^3 + 2s^2 + 4s}$
 d. Discuss initial value theorem in Laplace transform domain.
 e. Define Laplace transform and inverse Laplace transform. What is region of convergence?

[TURN OVER]

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