
GAIL – Executive Trainee Recruitment
Sample Questions

1) What would be the suitable external component to limit the output of an op-amp to a predetermined value?

- A) UJT B) BJT C) DIODE D) FET

2) What is the sampling frequency that should be selected to avoid "Aliasing" ?

- A) $f_s = 2f_m$ B) $f_s \geq f_m$ C) $f_s > 2f_m$ D) $f_s \leq 2f_m$

3) Consider that X & Y are two events in an experiment. The possibility of occurrence of event Y does not depend upon occurrence of event X. What is the nature of these two events?

- A) Continuous random variable
B) Discrete random variable
C) Joint probability density function
D) Statistically independent

4) What is the principle of operation used in the measurement of liquid level by capacitive transducers?

- A) Change of capacitance with change of distance between the plates
B) Change of capacitance with change of area of the plates
C) Change of capacitance with change of dielectric strength
D) Change of capacitance with change of electric field

5) What type of terms will be present in the Fourier series of a periodic function $f(t)$ having a time period T and repeating itself after half time period?

- A) Sine terms only B) Cosine terms only C) Odd harmonic terms only D) Even harmonic terms only