## SYMBIOSIS INTERNAITONAL (DEEMED UNIVERSITY) Ph D ENTRANCE TEST

## The Sample questions of Electronics & Telecommunication Engineering

Question No	<b>Question Text</b>	Option 1	Option 2	Option 3	Option 4	Correct Option
1	A transmission line has a characteristic impedance of $50 \Omega$ and a resistance of $0.1 \Omega/m$ , if the line is distortion less, the attenuation constant (in Np/m) is	500	5	0.014	0.002	Option 4
2	A radar receiver has a noise figure of 10 dB at 300 K having a bandwidth of 2.5 MHz. The minimum power it can receive is	3.45 x 10 <sup>-</sup>	1.38 x 10 <sup>-15</sup> W	7.5 x 10 <sup>-15</sup> W	93.15 x 10 <sup>-</sup>	Option 4
3	How many flip flops are required to construct a decade counter	10	4	3	2	Option 2
4	How many select lines will a 8 × 1 multiplexer will have	8	3	5	1	Option 2
5	A waveguide section in a microwave circuit will act as a	low-pass filter	band-pass filter	high-pass filter	band-stop filter	Option 3