**Methodist LogoMETHODIST COLLEGE OF ENGINEERING & TECHNOLOGY**

B.E II/IV (IV SEM), **2nd INTERNAL EXAMINATIONS**, APRIL 2019.

Branch: **II**  **ECE -** **A&B** Subject: **PTSP**  Max Marks: **5**

Date of Examination: **09/04/2019** Paper: **Quiz** Time: **1PM to 1:10PM.**

1. A thermal Noise whose frequency components extend from 0 to ∞ [ ]
2. White Noise b) Coloured Noise c) Both d)None
3. A random process is \_\_\_ if both random variable X & time t are continuous [ ]

a) continuous b) Discrete c) Both d) none

3. An Experiment where we cannot predict the outcome is [ ]

a)Non Deterministic b)Random c)Both d)None

4. Power Density spectrum is denoted as [ ]

a) Sxx(w) b) Sxy(w) c) Cxx (w) d) A & B

5. w3***/***w4 +10w2 +9 is a valid PSD T/F [ ]

6. Sxx(w) = Sxx(-w) T/F [ ]

7. E[X2(t)] =Rxx(0) T/F [ ]

8. Write the Formula of Poisson Distribution\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

9. Write the Formula of PSD \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_.

10.Write conditions for WSS\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_