



MANIPAL INSTITUTE OF TECHNOLOGY

MANIPAL

(A constituent unit of MAHE, Manipal)

SEVENTH SEMESTER B. TECH (ELECTRONICS AND INSTRUMENTATION)

PROCTORED ONLINE MAKE-UP EXAMINATION - Feb/March. 2022

SUBJECT: Wireless Sensor Technology (ICE 4070)

TIME: 2.20-3:35 PM

DATE: 22/02/2022

MAX MARKS 20

Note: Answer All questions

1	A	Explain the IEEE 802.15.4 MAC wireless sensor network.	4M
	B	Find the transmission model in a cipher block chaining mode encryption	4M
	C	What is the structure of payload in a 802.11	2M
2	A	Find the zigbee network with its address for 2 generations give $C_m=6$, $R_m=4$ and $L_m=3$	4M
	B	What are the expectation from the sensor network to be used in intelligent transport	2M
	C	Describe the sensor network interconnection taking smart grid as application	3M