PES University, Bangalore

UE18CS313

(Established under Karnataka Act No. 16 of 2013)

IN SEMESTER ASSESSMENT (ISA) – October 2020

UE18CS313: INTERNET OF THINGS

Time: 2 Hrs	Answer All Questions	Max Marks: 60

1a	Briefly explain the evolutionary phases of the Internet.	6
b	Explain the main elements of the M2M IoT Architecture.	6
2	Explain the defining characteristics of fog computing	8
3a	What are four defining characteristics of a Smart Object? Explain any two.	6
b	Briefly explain the following main enhancement of MAC layer proposed by IEEE 802.15.4e-2012. i. Information Element ii. Enhanced beacons iii. Enhanced beacon request	6
4	Explain three dominant topology schemes available for connecting IoT devices.	8
5a	What factors determine which model is best suited for the last-mile connectivity?	6
b	Define the following CoAP Message fields i. Code ii. T(Type) iii. Message ID	6
6	List and explain four schedule management mechanism of 6TiSCH architecture.	8