Name:	UPES
Enrolment No:	

UNIVERSITY OF PETROLEUM AND ENERGY STUDIES
End Semester Examination, December 2018

Course: Mobile Communication Standards (CSIB-344)   **Semester: 5th**

Programme: B.Tech CS-TI

Time: 03 hrs.   **Max. Marks: 100**

Instructions: *Attempt ALL questions. The marks for each question are written alongside with the question.*

SECTION A

S. No.		Marks	CO
Q1	What do you mean by standards in mobile communication? Compare different mobile standards.	5	CO1
Q2	Name different Telecom/ ICT standard bodies in Mobile Technology.	5	CO2
Q3	What is the need of DOCSIS? Explain its evolution in context of mobile communication.	5	CO3
Q4	Describe various Environmental Management Standards followed in mobile communication.	5	CO4

SECTION B

Q5	Explain the architecture of NGN. Mention its key characteristics in detail.	10	CO1
Q6	Discuss IEEE and ISO standard for mobile communication.	10	CO2
Q7	Explain the frame format of IEEE 802.3.	10	CO3
Q8	Analytically compare OSI and TCP/IP reference model for mobile communication in tabular format. OR State and explain the different functions of ITIL Standard.	10	CO4

SECTION-C

Q9	(a) Explain how data rates and packetisation increases during evolution of mobile technologies.	10	CO1
	(b) Industry forums and organizations helps in formalizing best practices in business process management that interface telecom with IT. Justify the statement.	10	CO2
Q10	(a) What are the standards followed in Wireless Communication. Explain in detail.	10	CO3
	(b) What is FCAPS? Explain the functional areas of FCAPS.	10	CO4

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SECTION A

S. No.		Marks	CO
Q1	What are the components of telecom network? Explain.	5	CO1
Q2	What are the major multimedia standards that governs communication of data between different mobile stations?	5	CO2
Q3	Analyze and compare RFID, Bluetooth and ZigBee wireless communication standards in tabular format.	5	CO3
Q4	What are different safety standards used in mobile communication? Explain.	5	CO4

SECTION B

Q5	Draw the architecture of OSS and BSS and explain each component.	10	CO1
Q6	What are the major image and video standards in mobile communication? Explain in detail.	10	CO2
Q7	Describe the standards within the IEEE 802.11 family include 802.11 a/b/g/n/ac.	10	CO3
Q8	Compare OSI and TCP/IP reference model for mobile communication in tabular format. OR State and explain the different functions of ITIL Standard.	10	CO4

SECTION-C

Q9	(a) Explain various standards available in mobile communication.	10	CO1
	(b) Explain and differentiate TM Forum and ITIL standards used in mobile communication.	10	CO2
Q10	(a) What are the LAN, MAN and WAN standards of communication network. Explain.	10	CO3
	(b) Compare OSI and TCP/IP reference model for mobile communication in tabular format.	10	CO4