UNIVERSITY OF PETROLEUM AND ENERGY STUDIES
End Semester Examination, May 2019

Course: Tele-health principles and practices **Semester: 8th**
Program: B. Tech. Healthcare informatics **Time 03 hrs.**
Course Code: CSEG436 **Max. Marks: 100**

Instructions:

SECTION A			
S. No.		Marks	CO
Q1	Define tele-health, m-health, e-health and Ubiquitous health.	4	CO1
Q2	State various requirements for tele-health standards.	4	CO2
Q3	Critically analyze the cloud computing in telemedicine?	4	CO1
Q4	Discuss the role of identifiers in telemedicine	4	CO1, CO3
Q5	What are the characteristics of telemedicine room?	4	CO2
SECTION B			
Q6	Discuss the application software architecture applicable for communication in a telemedicine system	10	CO3
Q7	Analyze the use of remote discovery in telehealth?	10	CO2
Q8	Discuss health level 7 and its categories.	10	CO3
Q9	Discuss various branches of tele-health? OR Discuss various activities which are covered under m-health.	10	CO1
SECTION-C			
Q10	Critically analyze video conferencing systems in context to the following: a. Clinical b. Educational c. Administrative	20	CO1
Q11	Analyze the delivery mechanism of outdoor operating environment and the issues faced by it? (10+10) OR Discuss various business models involved in tele-health.	20	CO2, CO3

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SECTION A			
S. No.		Marks	CO
Q1	Analyze various advantages of tele-health over traditional mode of delivery	4	CO1
Q2	Discuss the maturity levels of various tele-health specialties.	4	CO1
Q3	Analyze the challenges for infrastructure in telemedicine?	4	CO2
Q4	Critically evaluate the IT infrastructure utilization in tele-health?	4	CO2
Q5	What are the functional requirements for telemedicine software?	4	CO3
SECTION B			
Q6	Discuss various components which are essential for exchange in telemedicine with regards to patients?	10	CO1
Q7	Analyze the emergency rescue system?	10	CO2
Q8	Analyze the working of space bridge project.	10	CO1
Q9	Discuss various branches of tele-health? OR Discuss various activities which are covered under m-health.	10	CO1
SECTION-C			

Q10	Discuss the following with regard to connectivity and communication systems in telemedicine:
	
	   a. PSTN/POTS
	   b. ISDN
	   c. ATM
	   d. LAN
	   e. VSAT
	   f. CDMA
		20	CO2

Q11	Discuss the following with regard to telemedicine:	20	CO1, CO3

| | a. Business plan
b. Technology plan
c. Manpower training
d. Pilot study
e. Sustaining the technology

Or

Analyze the following in context to telehealth:

a. Interoperability
b. Compatibility
c. Scalability
d. Accessibility
e. Reliability | | |