

Name:

Enrolment No:



UNIVERSITY OF PETROLEUM AND ENERGY STUDIES

End Semester Examination, December 2018

Programme Name: B.Tech (Healthcare Informatics)

Semester : 7th

Course Name : Healthcare Research Methods and Professional Issues

Time : 03 hrs

Course Code : CSEG 445

Max. Marks: 100

Nos. of page(s) : 01

Instructions:

SECTION A

[20 marks]

S. No.		Marks	CO
Q1	Bring out the importance of research in healthcare.	4	CO1
Q2	Explain the term professional accountability.	4	CO1
Q3	List any five components of IRB proposal.	4	CO3
Q4	Illustrate the general thought process involved in developing a formal research protocol.	4	CO3
Q5	Explain the characteristics present in a scientific experiment.	4	CO2

SECTION B


[40 marks]

Q6	Discuss the need of Healthcare education.	10	CO4
Q7	Highlight the basic issues in principles of healthcare ethics.	10	CO4
Q8	Differentiate between internal and external validity.	10	CO5
Q9	Write a short note on "Accuracy" in healthcare. OR Illustrate and explain one-way ANOVA	10	CO6

SECTION-C

[40 marks]

Q10	Analyze the steps and illustrate the scientific method of healthcare research.	20	CO6
Q11	Derive the methods of obtaining a sample for research in healthcare. OR Interpret and Analyze : Continuous Quality Improvement and Outcomes Research	20	CO7

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SECTION A [20 marks]

S. No.		Marks	CO
Q1	List the five phases of research.	4	CO1
Q2	Explain the importance of continuing education in healthcare.	4	CO1
Q3	Bring out the importance of decision analysis.	4	CO3
Q4	Give a brief on accountability of healthcare professionals.	4	CO3
Q5	Explain factors effecting feasibility of research.	4	CO2

SECTION B [40 marks]

Q6	Write a note on informed consent.	10	CO4
Q7	Discuss the ethical issues in the healthcare industry.	10	CO4
Q8	Generate a hypothesis “ The coin is a penny”	10	CO5
Q9	Explain the recommendations that apply to selecting samples for healthcare research. OR Compare and Contrast: internal and external validity	10	CO6

SECTION-C [40 marks]

Q10	“The next best thing to scientific research is benchmarking” Analyze.	20	CO6
Q11	Define and compare the ideas for keeping a laboratory notebook in healthcare. OR Apply and discuss Linearity and Calibration.	20	CO7