



UNIVERSITY OF PETROLEUM AND ENERGY STUDIES

End Semester Examination, December 2021

Course: Scientific writing, Intellectual Property Rights and Research Ethics

Semester: 3

Program: MSc (Chemistry)

Course Code: 15485

Duration : 03 hrs.

Max. Marks: 100

Instructions:

- All questions of section 'A' are compulsory.
- In section 'B' Q1, Q2 and Q3 are compulsory, attempt any ONE between Q4 and Q5
- In section 'C' Q3 is compulsory, attempt any ONE between Q1 and Q2

SECTION A			
(Scan and upload) (5Qx 4M = 20 Marks)			
		Marks	COs
Q 1	Explain the criteria for patentability.	4M	CO2
Q 2	List the attributes of a good manuscript.	4M	CO1
Q 3	Give the formula for finding h-index and impact factor.	4M	CO1
Q 4	List the key points of Belmont report for research ethics.	4M	CO3
Q 5	Explain two types of ethical decision-making.	4M	CO3
SECTION B			
(Scan and upload) (4Qx10M = 40 Marks)			
Q 1	Describe six norms of ethics in scientific research.	10M	CO1
Q 2	Explain the roles and responsibilities of various patent offices in India.	10M	CO2
Q 3	Describe various parts of a scientific manuscript using suitable examples.	10M	CO1
Q 4	Explain various types of IPRs.	10M	CO3
Q 5	Describe the types of scientific misconducts	10M	CO2
SECTION-C			
(Scan and upload) (2Qx 20M= 40 Marks)			
Q 1	Discuss the exclusions of Section (3) under patent act.	20M	CO3
Q 2	a) Illustrate using a flow chart, various stages of filing to grant of a patent. b) Explain the process of research article publication using a flow chart.	20M	CO2
Q 3	Write short notes on <i>any five</i> the following: a) The Paris Convention, 1883 b) The Berne Convention, 1886 c) The Universal Copyright Convention, 1952 d) The WIPO Convention, 1967 e) The Patent Co-operation Treaty, 1970 f) The TRIPS Agreement, 1994. g) COPE and WAME	20M	CO3