


Name:			
Enrolment No:			
UNIVERSITY OF PETROLEUM AND ENERGY STUDIES End Semester Examination, December 2022			
Course: Research and Publication Ethics Semester: III Program: MSc (Physics & Chemistry) Course Code: PHYS 8021		Time : 03 hrs Max. Marks: 100	
Instructions: <ul style="list-style-type: none"> • All questions of section 'A' are compulsory. • In section 'B' Q1, Q2 and Q3 are compulsory, attempt any ONE in Q4 • In section 'C' Q1 is compulsory, attempt any ONE in Q2 			
SECTION A (5Qx4M=20Marks)			
S. No.		Marks	CO
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	Discuss the importance of good research ethics.	4M	CO3
Q 5	Discuss the types of research misconducts.	4M	CO3
SECTION B (4Qx10M= 40 Marks)			
Q 1	Discuss the standards of ethics in scientific research.	10M	CO3
Q 2	Explain the roles and responsibilities of various patent offices in India.	10M	CO2
Q 3	Explain the components of scientific manuscript.	10M	CO1
Q 4	Define Intellectual Property Rights (IPRs). Explain various types of IPRs OR Discuss the importance of IPR for start-ups.	10M	CO2
SECTION-C (2Qx20M=40 Marks)			
Q 1	a) Illustrate using a flow chart, various stages of filing to grant of a patent. (10M)	20M	CO2

	b) List the states/ UT covered by various patent offices in India. (10M)		
Q 2	Discuss the exclusions of Section (3) under patent act. OR Write short notes on <i>any four</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	20M	CO3