


Name:			
Enrolment No:			
<b>UNIVERSITY OF PETROLEUM AND ENERGY STUDIES</b> <b>End Semester Examination, December 2022</b>			
<b>Course: Research and Publication Ethics</b> <b>Semester: III</b> <b>Program: MSc (Physics &amp; Chemistry)</b> <b>Course Code: PHYS 8021</b>		<b>Time : 03 hrs</b> <b>Max. Marks: 100</b>	
<b>Instructions:</b> <ul style="list-style-type: none"> <li>• All questions of section 'A' are compulsory.</li> <li>• In section 'B' Q1, Q2 and Q3 are compulsory, attempt any ONE in Q4</li> <li>• In section 'C' Q1 is compulsory, attempt any ONE in Q2</li> </ul>			
<b>SECTION A</b> <b>(5Qx4M=20Marks)</b>			
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
<b>SECTION B</b> <b>(4Qx10M= 40 Marks)</b>			
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
<b>SECTION-C</b> <b>(2Qx20M=40 Marks)</b>			
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)		
<b>Q 2</b>	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	<b>20M</b>	<b>CO3</b>