


Name:			
Enrolment No:			
<b>UNIVERSITY OF PETROLEUM AND ENERGY STUDIES</b> <b>End Semester Examination, December 2022</b>			
Course: Intellectual Property Rights and Research Ethics		Semester : IIIrd	
Program: M.Sc. N&D, Clinical Research and Microbiology		Duration: 3 Hours	
Course Code: HSCC8006		Max. Marks: 100	
<b>Instructions: Attempt All Questions</b>			
<b>S. No.</b>	<b>Section A</b>	<b>Marks</b>	<b>COs</b>
	<b>Short answer questions/ MCQ/T&amp;F</b> <b>(20Qx1.5M= 30 Marks)</b>		
<b>Q 1</b>			
<b>1</b>	<b>Define copyright.</b>	<b>1.5</b>	<b>CO 1</b>
<b>2</b>	<b>List two examples of trademarks.</b>	<b>1.5</b>	<b>CO 1</b>
<b>3</b>	<b>List any two examples for IPR falling under trade secret.</b>	<b>1.5</b>	<b>CO 1</b>
<b>4</b>	<b>List three essential criteria for filing of patent .</b>	<b>1.5</b>	<b>CO 1</b>
<b>5</b>	<b>Define patent of addition.</b>	<b>1.5</b>	<b>CO 1</b>
<b>6</b>	<b>Report examples of software protected under copyright.</b>	<b>1.5</b>	<b>CO 1</b>
<b>7</b>	<b>Mere Discoveries can be patented. Is it true or false?</b>	<b>1.5</b>	<b>CO 2</b>
<b>8</b>	<b>Identify the missing word.</b> <b>Patents have _____ years term protection.</b>	<b>1.5</b>	<b>CO 2</b>
<b>9</b>	<b>The duration of protection of trademark is indefinite. Is it true or false?</b>	<b>1.5</b>	<b>CO 2</b>
<b>10</b>	<b>Report two benefits of trade secret.</b>	<b>1.5</b>	<b>CO 2</b>
<b>11</b>	<b>Identify type of good that can be protected under geographical indications.</b> <b>a. Natural, Agricultural or manufactured products in specific territory which conveys distinctiveness.</b> <b>b. Natural, Agricultural or manufactured products anywhere in the world.</b> <b>c. Idea generated in specific territory.</b> <b>d. None of the Above</b>	<b>1.5</b>	<b>CO 2</b>
<b>12</b>	<b>Trademarks have a goodwill associated with them. Is the statement true or false?</b>	<b>1.5</b>	<b>CO 2</b>
<b>13</b>	<b>Zotero is a referencing software . Is it true or false</b>	<b>1.5</b>	<b>CO 2</b>
<b>14</b>	<b>Write the importance of prior art in a patent.</b>	<b>1.5</b>	<b>CO 3</b>
<b>15</b>	<b>Write down the function of plant breeders right.</b>	<b>1.5</b>	<b>CO 3</b>

16	Write two effects of patents on innovations.	1.5	CO 3
17	Write two examples of scientific search databases.	1.5	CO 3
18	Write about any two examples of patents in biotechnology.	1.5	CO 3
19	Illustrate different types of IPRs with suitable diagram.	1.5	CO 3
20	Give two examples of Copyrighted materials.	1.5	CO 3
<b>Section B</b> (4Qx5M=20 Marks)			
Q 1			
1	State the importance of ethics in research.	5	CO 1
2	Describe the classification of data sources for literature review with special focus on online databases.	5	CO 2
3	Describe about a. Copyrights b. Geographical Indications	2.5X2=5	CO 2
4	Write about the role of Controller of patents in patent application approval process.	5	CO 3
<b>Section C</b> (2Qx15M=30 Marks)			
Q 1			
1	Discriminate between a. Trade secrets and patents b. Traditional Knowledge and Geographical Indications c. Ordinary Patent Application and Provisional Application	(3X5=15)	CO 4
2	Compare pro and cons of patents in biotechnology by using PCR and Microarray Technology as examples.	15	CO 4
<b>Section D</b> (2Qx10M=20 Marks)			
Q 1	Describe the patent examination and approval process along with the timelines and its implication on grant of patents.	10	CO 3
Q 2	Discuss about importance of ethics in		CO 3
	a. IPR	5	
	b. Research	5	