Department of Biochemical Engineering & Biotechnology

I Semester, 2016 – 17; Major Test

BEL 701: Biotechnology Resource planning and IPR issues	
	Time: Two Hours
Max. Marks: 40 x 3 = 120 = 2 hours	
4 marks: 40 x 3 = 120 = 2 hours 4 marks - 12 minutes	p of the second
1. Give two examples of products / activities based on bioprocessing in each categories:	h of the following
(a) Low volume - High cost products	<i>y</i>
Bulk health-care products	
TC/ DIOPROCESS Services	
(d) Environmental applications	1
2	(4)
Identify any four parameters for the selection of raw material for a bulk in	ndustrial product based on
bioprocessing and illustrate your answer with microbial production of etha	_{an} ol. (4)
3. List various categories of inventions that are specifically excluded from the	e grant of patents.
a de sumant 2 la	antifu various functions
What are the key sections (typical architecture) of a patent document? Ide	entily vo
${m \mathcal{V}}$ that are usually served by the patent documents.	(4)
- La company to the contract of the contract o	groements:
5. Explain the provisions of IPR as facilitated by the following international a	Risemen
(a) Paris Convention (1983)	
(b) Patent Cooperation Treaty (PCT)	(4)
Torm Loan from a Finance	• •
Distinguish between 'Venture Capital' and 'Long Term Loan from a Finance	Clai Indication
3\5 financing a new commercial project.	(4)
7. Identify and list various factors that should be considered for assessing th	
genetically modified organisms.	
general, and and a	(4)
8. What are the typical steps associated with the risk – management proces	s for a new r-DNA product? (4)
What is the regulatory mechanism followed in India (as required by GOI)	
What is the regulatory mechanism rollowed in India (as required by 30)	Tor implementing
environmental safety from a new genetically modified organism?	(4)
/ m m m m m m m m m m m m m m m m m m m	
10. Briefly outline various ethical criteria to assess the social acceptance of a development.	Them protectinology

(5)