NAVRACHANA UNIVERSITY
a UGC recognized University

School:	School of Engineering and Technology
Program/s:	B.Tech IT
Year: 4th	**Semester:** 7th
Examination:	End Semester Examination
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Course Code: IT403	**Course Name:** Moral Values and Ethics	**Total Marks:**	40
Date: 01/12/2021		**Total Pages:**	2
Time: 11:30 am to 01:30 am			

Instructions:

→ *Write each answer on a new page.*
→ ** COs=Course Outcome mapping. # BTL=Bloom's Taxonomy Level mapping*

Cos 1: Understanding basic purpose of profession, professional ethics and various moral and social issues.

Cos 2: Awareness of professional rights and responsibilities of an Engineer, safety and risk benefit analysis of an Engineer

Cos 3: Acquiring knowledge of various roles of Engineer and applying ethical principles at various professional levels

Cos 4: Professional Ethical values and contemporary issues

COs 5: Excelling in competitive and challenging environment to contribute to industrial growth.

Q. No.	Details	Marks	COs*	BTL#
Q.1	What are the models of Professional Roles?	5	CO1	BT2
Q.2	Discuss Intellectual property rights and various forms of IPR.	5	CO 3	BT5.
Q.3	A big corporate house is engaged in manufacturing industrial chemicals on a large scale. It proposes to set up an additional unit. Many states rejected its proposal due to the detrimental effect on the environment. But one state government acceded to the request and permitted the unit close to a city, brushing aside all opposition. The unit was set up 10 years ago and was in full swing till recently. The pollution caused by the industrial effluents was affecting the land, water and crops in the area. It was also causing serious health problems to human beings and animals. This gave rise to a series of agitations demanding the closure of the plant. In a recent agitation thousands of people took part, creating a law and order problem necessitating stern police action. Following the public outcry, the State government ordered the closure of the factory. The closure of the factory resulted in the unemployment of not only those workers who were engaged in the factory but also those who were working in the ancillary units. It also very badly affected those industries which depended on the chemicals manufactured by it. As a senior officer entrusted with the responsibility of handling this issues, how are you going to address it?	10	CO4	BT3, BT4
Q.4	A Cyber security Ethics Case Study A recent article in a magazine details the anticipated re-release of a tool called PunkSpider. While constantly scanning the web, PunkSpider "automatically identifies hackable vulnerabilities in websites, and then allows anyone to search	10	CO2, CO3	BT4 BT5

those results"—by URL keywords, or type or severity of vulnerability.

PunkSpider collects a catalog of unpatched vulnerabilities and makes them public. Its developers hope that the tool will force website administrators to fix those vulnerabilities. However, some might exploit the disclosed vulnerabilities first. The tool's creators are aware of this risk. One of the creators, Alejandro Carceres, pointed out that "scanners that find web vulnerabilities have always existed. This one just makes the results public." He added, "You know your customers can see [the publicly disclosed vulnerability], your investors can see it, and so you're going to fix that...fast."

According to magazine, an earlier version of PunkSpider had been repeatedly kicked off Amazon Web Services in response to "abuse reports from angry Web administrators."

When asked about the ethics of creating and deploying PunkSpider, cyber security expert Katie Moussouris argued that "vulnerabilities themselves are what would lead to the hacking of websites"; she added, "A tool like this just makes those vulnerabilities visible."

After years of warnings about vulnerabilities that continue to be ignored, Alejandro Carceres says, "we need to try something new."

Discussion questions
- What ethical issues do you spot in this scenario?
- Does the inclusion of an opt-out feature change your ethical analysis of the project? If so, how?

Q.5	Students have to imagine that you are the CEO of a reputed organisation. • You have arranged a meeting with your managers to explain them the importance of ethics at work and how they must inculcate good ethical practices in their daily endeavors. • As a CEO you are expected to educate your managers on the benefits of good ethical practices to the organisation.	10	CO1 CO3	BT4, BT3

************End of Question Paper************