

(i) Printed Pages : 2

Roll No.

(ii) Questions : 5

Sub. Code :

1	1	3	7	9
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Exam. Code :

5	0	0	4
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NEP U.G. Common-Value Added Course 4th Semester

(2056)

COMPUTER SCIENCE & APPLICATIONS

Paper : Ethics of Artificial Intelligence

Time Allowed : 3 Hours]

[Maximum Marks : 45

Note :— Students are required to attempt ONE question from each section and the entire Compulsory question.

SECTION—A

- (a) What do you understand by ethics? Describe key principles of ethical AI. 7

(b) Can ethics be programmed? What is the role of professional communities in teaching machines to be moral? 8
- What are normative models? List their key aspects. How do they guide the ethical development of AI systems? How do they differ from traditional AI models? 15

SECTION—B

- (a) How can we develop and implement AI systems that promote accountability and transparency while increasing its economic value? 7

- (b) How can we develop and deploy AI systems that create opportunities for ethical biomedical research? 8
4. List the benefits of smart cities for citizens. How can smart city projects protect citizen privacy in public spaces while using surveillance tools? 15

Compulsory Question

5. Answer the following: 5×3=15
- (a) What are the ethical challenges of AI solutions?
- (b) What are artificial entities?
- (c) List the ethical issues that arise from the use of AI in public transport systems.
- (d) How do race and gender issues emerge in AI?
- (e) What is AI governance by Human-Right centered design?