

RAN-2508000605040010
T.Y.B.Com. Data Science (Sem. - V) Examination October - 2025
Data Ethics And Privacy (Minor)
[Total Marks: 50]
સૂચના : / Instructions

- (1) ઉપરોક્ત દર્શાવેલ વિગતો ઉત્તરવહી પર અવશ્ય લખવી.
Fill up strictly the above details on your answer book

Seat No.:

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Student's Signature

- Q. 1 Write the Answer in Short (Any 5) 10**
- What does CCPA stand for?
 - What is decisional privacy?
 - Explain “data as labor” in one sentence.
 - Name one fairness metric used in machine learning.
 - Define physical privacy.
 - What is a data breach in one line?
 - Name one high-profile data ethics case study mentioned in the syllabus.
- Q. 2 (A) Discuss the arguments for and against treating personal data as property. 07**
(B) Explain the lifecycle of a data breach, its ethical consequences and best-practice organizational responses. 07
- OR**
- Q. 2 (A) Discuss the ethical challenges of predictive analytics in public services (e.g. policing, welfare) 07**
(B) Describe technical and policy-level approaches to secure ethically sensitive datasets (e.g. health records). 07
- Q. 3 (A) Discuss ethical dilemmas in AI-driven hiring systems and propose a framework to audit fairness. 07**
(B) Analyse the Cambridge Analytica case: what happened, ethical failures, and lessons for policy and practice. 07
- OR**
- Q. 3 (A) Explain the ethical, legal, and social implications of facial recognition deployment in public spaces. 07**
(B) Debate whether anonymisation is sufficient to protect privacy in modern datasets; include re-identification risks. 07
- Q. 4 Write a short Note (Any 3) 12**
- Utilitarianism —key idea and data example.
 - Data ownership —competing views.
 - Fairness metrics —demographic parity (brief).
 - GDPR —key rights for individuals.
 - Access control —principle of least privilege.