



# LOYOLA COLLEGE (AUTONOMOUS) CHENNAI – 600 034

M.A. DEGREE EXAMINATION – SOCIOLOGY

THIRD SEMESTER – APRIL 2025

PSO3MC03 – SCIENCE TECHNOLOGY AND SOCIETY



Date: 29-04-2025

Dept. No.

Max. : 100 Marks

Time: 09:00 AM - 12:00 PM

## SECTION A – K1 (CO1)

Answer ALL the questions

(5 x 1 = 5)

1 Match the following

- |    |                              |   |                 |
|----|------------------------------|---|-----------------|
| a) | Protestant Ethic and Science | - | Christian Fuchs |
| b) | Actor Network Theory         | - | R.K. Merton     |
| c) | Caste in IISc                | - | Karl Popper     |
| d) | Marx and social media        | - | Renny Thomas    |
| e) | Falsification                | - | Bruno Latour    |

## SECTION A – K2 (CO1)

Answer ALL the questions

(5 x 1 = 5)

2 True or False

- |    |   |
|----|---|
| a) | Institutions of scientific research are devoid of caste hegemony or domination.                     |
| b) | According to actor network theory the task of the object is to object the interpretations about it. |
| c) | Cryptocurrencies are made possible through blockchain technology.                                   |
| d) | Science is not influenced by the changing regimes of state.   |
| e) | R.K. Merton was the founder of actor network theory.  |

## SECTION B – K3 (CO2)

Answer any THREE of the following in 400 words each.

(3 x 10 = 30)

- |   |   |
|---|---|
| 3 | Demonstrate how sociology can understand science.                             |
| 4 | Illustrate how technology has changed medical practices.                      |
| 5 | Examine the relationship between sociology and STS as shown by Law.           |
| 6 | Analyze how and why case study is a fundamental method in STS.                |
| 7 | Apply paradigm shift as a concept in understanding transformation of science. |

## SECTION C – K4 (CO3)

Answer any TWO of the following in 600 words each.

(2 x 12.5 = 25)

- |    |   |
|----|---|
| 8  | Demonstrate how falsification can be a benchmark of science according to Karl Popper. |
| 9  | Analyze how the Puritan ethic aided the development of science.                       |
| 10 | Illustrate your understanding of blockchain technology.                               |
| 11 | Analyze the argument about 'Catching Ovulation' given by Hamper.                      |

## SECTION D – K5 (CO4)

Answer any ONE of the following in 800 words

(1 x 15 = 15)

- |    |  |
|----|--|
| 12 | Examine how science and caste interact in institutions of science and technology higher education according to Renny Thomas. |
| 13 | Summarize how critical school understands technology.  |

## SECTION E – K6 (CO5)

Answer any ONE of the following in 1000 words

(1 x 20 = 20)

- |    |  |
|----|--|
| 14 | Social media is a platform of exploitation. Justify using Christian Fuchs. |
| 15 | Summarize Latour's study in his book Laboratory Life.                      |

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