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JAYPEE UNIVERSITY OF INFORMATION TECHNOLOGY, WAKNAGHAT

TEST -2 EXAMINATIONS- 2026

B.Tech-4th Semester (CSE/IT/BT/ECE/CE)

COURSE CODE (CREDITS): L25B1WHS434 (3)

MAX MARKS: 25

COURSE NAME: AI and Society

COURSE INSTRUCTOR: Ranjith Kallyani

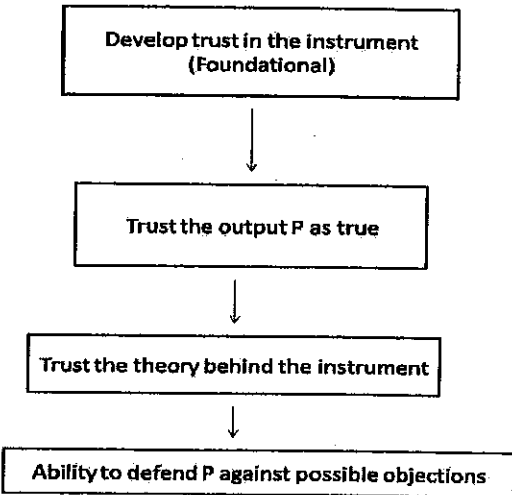
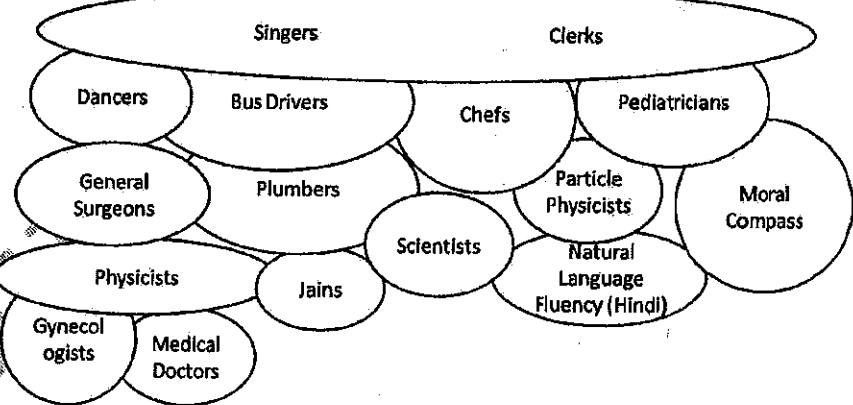
MAX. TIME: 1 Hour 30 Min

Note: (a) All questions are compulsory.

(b) The candidate is allowed to make Suitable numeric assumptions wherever required for solving problems

(c) Use of calculator is not allowed

Q.No	Question	CO	Marks
Q1	<p>Three scenarios are provided below.</p> <p>Scenario 1 Day 1: Thermometer says 37°C → I feel normal → It's probably wrong Day 2: Thermometer says 37°C → I feel normal → Still suspicious Day 3: Thermometer says 37°C → I feel normal → Maybe it's right? Day 30: After 30 times... → I still don't trust it</p> <p>Scenario 2 You trust the thermometer because: ↓ You read the instruction manual ↓ You understand all the theory behind it ↓ You have a PhD in instrument design ↓ NOW you can trust it</p> <p>Scenario 3 How trust in thermometer develops: First use → Trust completely Second use → Trust completely Third use → Trust completely (Trust is constant regardless of experience)</p> <p>According to Sosa's Rational Inductive approach, none of them holds water. Make a similar flow of propositions about the way you justify instrumental based beliefs according to Sosa's framework.</p>	CO5	5

<p>Q2</p>	 <p>The diagram represents the key attributes according to Lehrer's Coherentist Approach. While the attributes are correct, their relationships as represented by the arrow marks are against the fundamental principle of coherentism. Draw a different diagram to represent the nature of justification of Instrument Based Beliefs according to Coherentism.</p>	<p>CO5</p>	<p>5</p>
<p>Q3</p>	<p>In conventional epistemology, sources of knowledge are either human mind or the external world. In the case of instrumental knowledge, this understanding is challenged. How? (Answer in a sentence or two.)</p>	<p>CO1</p>	<p>2</p>
<p>Q4</p>	<p>According to Sosa, Testimonial Knowledge presupposes Instrumental Knowledge. Justify this statement. (Answer in two-three sentences)</p>	<p>CO1</p>	<p>3</p>
<p>Q5</p>	 <p>Provided above is a fractal model of a typical North Indian society. While the single fractals represent actual knowledge communities, their mutual relationships are wrongly represented in the above figure. Draw a proper fractal model of the same bubbles. The relational aspect of epistemic communities should be self explanatory in the figure that you draw. (You don't have to descriptively explain the figure)</p>	<p>CO2</p>	<p>10</p>