Program:	**T.Y.B.Sc IT**	**Semester:**	**V**	**Program Code:**	**UGIT01**
Course:	**Indian Knowledge System with Cyber Intelligence**			**Course Code:**	**NUIT502**
Duration:	**1 Hour**	**Examination Pattern:**	**NEP-Autonomous- External**	**Max. Marks:**	**30**

Instructions:

1. All questions are compulsory.
2. Figures to the right indicate full marks.
3. Draw neat diagrams wherever necessary.
4. CO (Course Outcome), KL (Knowledge Level).

Examination:

REGULAR

Q. 1		**Attempt any THREE of the following.**	[15]	CO's	KL's
	(a)	Analyze Pingala's binary patterns and combinatorics by examining how they represent and organize different patterns and arrangements.		CO2	L4
	(b)	Define Nyaya Logic and list the five components of the Indian syllogism.		CO1	L1
	(c)	Explain Panini's Ashtadhyayi as a rule-based grammatical system.		CO2	L2
	(d)	Apply the concept of Pramanas (means of valid knowledge) to determine the truth of a given statement, with suitable examples.		CO1	L3
	(e)	Define Kautilya's principles of analytical thinking and decision-making.		CO4	L1
Q. 2		**Attempt any THREE of the following.**	[15]	CO's	KL's
	(a)	What are Information Protection Strategies? Explain any five important strategies used to protect information from security threats.		CO3	L2
	(b)	List the common types of cybercrimes.		CO3	L1
	(c)	Analyze the concept of Cyber Forensics by examining its major steps and explain how each step contributes to the investigation of a cybercrime.		CO3	L4
	(d)	Evaluate the role of Artificial Intelligence in Cyber Security by assessing its effectiveness in detecting, preventing, and responding to cyber threats.		CO4	L5
	(e)	Analyze how Indian ethical values can be used to create awareness and develop effective measures for preventing common cybercrimes.		CO3	L4

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