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Total No. of questions	
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JSPM's
Rajarshi Shahu College of Engineering, Tathawade, Pune- 411033

(An autonomous institute affiliated to Savitribai Phule Pune University)

Examination: End Semester Examination (ESE)

Semester: II

Academic Year: 2024-25

Program:

Examination Class: F Y. B. Tech (Electronics and Telecommunication, Civil, Electrical, Computer Science and Business System)

Course Code: --HS1207T--Course Name and Pattern: Indian Knowledge System--
(2023Pattern)

Max. Duration: 2 Hours

Max. Marks: 50 Marks

Instructions to the Candidates

All sections are compulsory (A, B, C)

Section - A

Q. No.	Question	Marks	CO
1	Fill in the blanks (SOLVE ANY 5)	5	CO-1
a)	Author of Yog Darshan is _____.	1	1
b)	According to Nyaya Darshan knowledge gained through Sensory perception is known as _____.	1	1
c)	In the <i>Vastu Purusha Mandala</i> , the head of Vastu Purusha lies in the _____ direction.	1	1
d)	The philosophical part of the Vedas is known as _____.	1	1
e)	The four parts of the Vedas are Samhita, _____, Āraṇyaka, and Upanishads.	1	1
f)	_____ process in metallurgy is used for casting of metal	1	1

2	Match the pair (Solve Any 5)	5	CO-1
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Column A	Column B
1. Yajurveda	a) Non-attachment
2. Wootz steel	b) Adhvaryu
3. Aparigraha	c) Study of poetic meter
4. Vedang	d) Upanishad
5. Mitra (Ally)	e) High percentage of carbon
6. Vedant	f) Friendly states/ country

		5	CO-1
3	State true or false (Solve Any 5)		
F a)	The Samaveda contains instructions for performing sacrifices only.	1	1
T b)	Artha as a Purushartha refers to ethical earning and material wealth.	1	1
T c)	Nachiketa's first boon was to ensure that his father would be free from anger and accept him back lovingly.	1	1
F d)	According to Arthashastra, the King is considered the least important among the seven pillars.	1	1
T e)	Steel is invented in India	1	1
f)	Pranamaya Kosha refers to the intellectual wisdom of a person.	1	1
F	MCQ (All questions are Compulsory)		
4	Choose and answer one option from each question.	5	CO-1
	How does Nirukta help in understanding ancient Vedic texts?	1	1
a)	A. It provides grammatical rules to structure sentences correctly. B. It explains the etymology and meaning of difficult Vedic words. C. It preserves the oral tradition of the Vedas without written documentation. D. It provides musical notations for chanting the hymns.		
	Which of the following categories is NOT part of the Vaisheshika classification.	1	1
b)	A. Categorization of Reality: Vaisheshika focuses on the classification of reality into nine categories (<i>Padarthas</i>) B. Atomic Theory: It proposes that the physical world is composed of indivisible atoms (<i>Paramanu</i>) that combine to form matter. C. Role of God: While Vaisheshika is not primarily theistic, it acknowledges God as the efficient cause of creation, maintaining order in the universe. D. All of the above		
c)	Which process was adopted in separation of gold from ore A. Amalgamation B. Electrolysis C. Electrodialysis D. Electrochemical reaction.	1	1
	Assertion (A): Shabda, or verbal testimony, is considered an reliable/flawless source of knowledge in the Nyaya tradition. Reasoning (R): It provides correct knowledge through authoritative speakers.	1	1
d)	A. Both assertion and reasoning are true, and reasoning is the correct explanation of assertion. B. Both assertion and reasoning are true, but reasoning is not the correct explanation of assertion. C. Assertion is true, but reasoning is false. D. Assertion is false, but reasoning is true.		
e)	Which temple style commonly features a pyramidal tower built in progressive steps? A. Nagara B. Dravidian C. Vesara D. Buddhist	1	1

Section - B

Q. No.	Marks	CO
	6	CO-2
5 MCQ (Solve Any -3)		
a) Choose and answer one option from each question.	2	2
Situation: During a philosophical debate, a speaker insists on an incorrect interpretation of a scripture due to misunderstanding Sanskrit grammar. Which Vritti is influencing the speaker?		
A. Smriti B. Viparyaya C. Pramana D. Vikalpa		
b) A person shows excessive ambition, irritability, and inflammatory skin issues. Based on Ayurvedic principles, which Dosha and Guna are most likely elevated? A. Kapha and Tamas B. Vata and Sattva C. Pitta and Rajas D. Vata and Tamas	2	2
c) Assertion (A): The Iron Pillar of Delhi has not rusted significantly over centuries. Reason (R): Ancient Indian metallurgists developed advanced techniques to produce high-phosphorus, low-carbon iron. A. Both A and R are true, and R is the correct explanation of A. B. Both A and R are true, but R is not the correct explanation of A. C. A is true, but R is false. D. d) A is false, but R is true.	2	2
d) According to Samkhya, which of the following best explains why people experience suffering in the material world? A. Due to the karmic laws of Dharma B. Because Prakriti is inherently painful C. Because the Purusha is affected by material changes D. D. Because Purusha falsely identifies with Prakriti	2	2
e) Find out Number according to Bhutasamkhya आकाशे शून्यं व्याप्नोति, पृथ्वी च स्थिरतां धारयति। (Ākāse śūnyam vyāpnōti, pr̄thvī ca sthiratām dhārayati.) "The sky pervades emptiness, and the Earth upholds stability." A. 001 B. 010 C. 100 D. 101	2	2
6 MCQ (SOLVE ANY -4)	8	Co-2
Choose and answer one option from each question.		
a) Assertion (A): A person suffering from emotional distress may benefit from working on the Manomaya Kosha. Reason (R): Manomaya Kosha governs breath and energy balance in the body.	2	2
A. Both A and R are true, and R is the correct explanation of A B. Both A and R are true, but R is not the correct explanation of A		

- C. A is true, but R is false
D. A is false, but R is true
- b) A community health program in a rural area identifies that the villagers are free from diseases but exhibit issues like low motivation, inability to manage stress, and lack of harmony in interpersonal relationships. Based on WHO's definition of health and Ayurvedic principles, which intervention would be MOST holistic in addressing their condition? 2 2
- A. Provide advanced medical facilities to prevent potential outbreaks of diseases.
B. Conduct mental wellness workshops focusing on stress management and mindfulness.
 C. Integrate yoga, pranayama, and community activities to foster physical, mental, and social well-being.
D. Offer immunization campaigns to ensure a disease-free environment.
- c) **Assertion (A):** Vedanta Darshan emphasizes the concept of Brahman as the ultimate reality.
Reason (R): The Upanishads, which form the core of Vedanta, teach that the self (Atman) is identical with Brahman.
A. Both A and R are true, and R is the correct explanation of A.
B. Both A and R are true, but R is not the correct explanation of A.
C. A is true, but R is false.
D. A is false, but R is true.
- d) **Assertion (A):** According to Samkhya, Prakriti alone is responsible for creation and change in the universe. 2 2
Reason (R): Purusha provides the dynamic energy for Prakriti to manifest the world.
A. Both A and R are true, and R is the correct explanation of A
B. Both A and R are true, but R is not the correct explanation of A
 C. A is true, but R is false
D. A is false, but R is true
- e) **Assertion (A):** Bhaskara II's *Lilavati* contains innovative techniques for solving arithmetic and algebraic problems. 2 2
Reason (R): Bhaskara II emphasized the philosophical aspects of zero more than practical calculation methods.
A. Both A and R are true, and R is the correct explanation of A.
B. Both A and R are true, but R is not the correct explanation of A.
 C. A is true, but R is false.
D. A is false, but R is true.

Section - C

Q. No.	Long Answer Questions (SOLVE ANY 2)	Marks	CO
7A	Compare and contrast approach of health as by WHO and Ayurveda.	8	3
7B	a) Explain the evolution process of metals in India. b) Discuss different types of furnaces used in India and other country for metallurgical extraction.	8	3
7C	a) Find with details steps to find out Squares of following numbers according to "Ayabhattiya" Method. 1. 6703 2. 583 b) Demonstrate with examples how practicing <i>Yama</i> and <i>Niyama</i> can improve personal and professional relationships	8	3