Assignment 4

The due date for submitting this assignment has passed. As per our records you have not submitted this assignment.

Due on 2020-10-14, 23:59 IST

1) In the classic Kuramoto model, \( A_i = \omega_i + \sum_{j \neq i} \Gamma_i(b_j - \theta_i) \), the symbol \( \Gamma_i \) denotes
   - Phase interaction function
   - Coupling strength
   - Element of the adjacency matrix
   - Order parameter
   - The answer is incorrect.

2) Match the following models with the purpose of their formulation.

| A. Modified Kuramoto Model | B. Vicsek's Model
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<td>C. Phased oscillator model</td>
<td>D. Incoherent phonons</td>
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3) Which theory assumed intelligence as a cluster of seven primary mental abilities?
   - Trichotomous theory of intelligence
   - Gardner's theory of multiple intelligences
   - Spearman's general intelligence theory
   - Thurstone's theory of intelligence
   - The answer is incorrect.

4) Which theory suggests that a balanced form of analytical-creative practical intelligence will be referred as "successful intelligence"?
   - Gardner's theory of multiple intelligences
   - Trichotomous theory of intelligence
   - Spearman's general intelligence theory
   - Thurstone's theory of intelligence
   - The answer is incorrect.

5) An integrated artificial cognitive system that attempts to model a broad spectrum of cognition in biological systems, from low-level perception-action to high-level reasoning is
   - Neurobiological underpinning
   - Learning intelligent connection
   - Neural network
   - Memory and motor memory
   - The answer is incorrect.

6) The EEG frequency bandwidth associated with mental activities such as perception, problem solving, and creativity is
   - 1-5 Hz
   - 6-12 Hz
   - 13-30 Hz
   - 10-60 Hz
   - The answer is incorrect.

7) The rule that significantly eliminates all frequencies below cut-off frequency but passes all above it is
   - Low Pass
   - High Pass
   - Band Pass
   - Band Stop
   - The answer is incorrect.

8) In a series resonant bandpass filter, a lower value of C results in
   - Higher resonant frequency
   - Smaller bandwidth
   - Higher impedance
   - Larger bandwidth
   - The answer is incorrect.