

# C1000-197 Official Study Guide | C1000-197 Exam Assessment

**DISHA SCIENCE CLASSES**

Chapter:- 4. रासायनिक बलगतिकी (Chemical Kinetics)

**विषयनिष्ठ प्रश्न**

**लालु उत्तरीय प्रश्न**

1. आर्हनियम समीकरण को लिखें। [2025A]

उत्तर- अभिक्रिया की वेग का ताप पर निर्भरता को आर्हनियम ने एक समीकरण के माध्यम से स्पष्ट किया था जिसे आर्हनियम समीकरण कहते हैं।

$$K = Ae^{-E_a/RT}$$

जहाँ,

K = वेग स्थिरांक

A = आर्हनियम गुणांक/ आवृति गुणांक

R = गैस नियतांक

T = ताप

Ea = सक्रियता ऊर्जा

2. अभिक्रिया का औसत और ताल्लुणिक वेग का क्या होता है? [2022A]

उत्तर- किसी निश्चित समय अंतराल में अभिकारक या उत्पाद के सांकेतिक में होने वाली परिवर्तन को औसत वेग कहते हैं।

$$R \rightarrow P$$

अभिकारक के लिए-

$$\text{औसत वेग } (r_{avg}) = \frac{d[R]}{dt} \quad \{ \Delta[R] = [R_2 - R_1] \}$$

उत्पाद के लिए

$$\text{औसत वेग } (r_{avg}) = \frac{d[P]}{dt} \quad \{ \Delta[P] = [P_2 - P_1] \}$$

जहाँ,

$\Delta t$  = समय अंतराल

ताल्लुणिक वेग या दर ( $r_{inst}$ ) :-

किसी रासायनिक अभिक्रिया में किसी निश्चित अवधि (dt) पर अभिक्रिया का वेग ताल्लुणिक वेग कहलाता है।

जहाँ  $t \rightarrow 0$

$$\text{ताल्लुणिक दर } (r_{inst}) = \frac{dc}{dt}$$

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अभिकारक के लिए

$$r_{inst} = -\frac{d[R]}{dt}$$

प्रतिफल के लिए

$$r_{inst} = \frac{d[P]}{dt}$$

3. अभिक्रियाओं पर ताप का क्या प्रभाव होता है? [2020A, 2016A]

उत्तर- ताप बढ़ाने पर अभिकारकों का गतिज उत्तर बढ़ जाता है जिसके फलस्वरूप प्रभावी टाइमों की संख्या भी बढ़ जाती है। अतः अभिक्रिया वेग भी बढ़ जाता है।

नोट- समान्तर:  $10^\circ\text{C}$  ताप बढ़ाने पर अभिक्रिया का वेग लगभग 2 गुण बढ़ जाता है।

4. अभिक्रिया की कोटि को परिमापित करें। जाप कैसे जानें कि अभिक्रिया प्रथम कोटि की है? [2020A]

उत्तर- वेग अवकाश में अभिकारकों के सांकेतिकों के घाटों का योगफल जो अभिक्रिया की कोटि कहते हैं।

वेग अवकाशक =  $K[A]^x[B]^y$

कोटि (n) =  $x + y$

यदि किसी अभिक्रिया की कोटि एक होगी तो उसे प्रथम कोटि की अभिक्रिया कहेंगे।

5. निम्नलिखित की परिवर्षा है।

(a) अभिक्रिया की कोटि [2019A, 2016A, 2011A]

(b) ग्रेसहोल्ड उर्जा [2016A, 2011A]

उत्तर- (a) अभिक्रिया की कोटि (Order of Reaction)- वेग अवकाश में अभिकारकों के सांकेतिकों के घाटों का योगफल जो अभिक्रिया की कोटि कहते हैं।

वेग अवकाशक =  $K[A]^x[B]^y$

कोटि (n) =  $x + y$

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## IBM Guardium Data Protection v12.x Administrator - Professional Sample Questions (Q21-Q26):

### NEW QUESTION # 21

What two steps should administrators take when maintaining Guardium policies to adapt to changing threats? (Choose two)

- A. Adjust policy rules based on new database risks
- B. Disable all existing policies before updates
- C. Review policy violation trends regularly
- D. Require firmware reinstallation each time

**Answer:** A,C

### NEW QUESTION # 22

Which Guardium license model is based on Virtual Processor Core (VPC) metric?

- A. Managed Virtual Server (MVS) model
- B. Enterprise Model
- C. Usage Model
- D. Authorized User (AU) model

**Answer:** C

### NEW QUESTION # 23

Who is typically responsible for approving Guardium policy changes before they are deployed in production environments?

- A. Database end users
- B. System backup operators
- C. Security or compliance officers
- D. Appliance vendors

**Answer:** C

### NEW QUESTION # 24

Why should administrators generate a support package from Guardium appliances when escalating issues to IBM Support?

- A. To provide detailed logs and system diagnostics for faster resolution
- B. To automatically reset appliance configuration before IBM intervention
- C. To bypass the need for appliance backups
- D. To disable conflicting policies before troubleshooting

**Answer:** A

### NEW QUESTION # 25

What is the underlying technology in the architecture of Guardium Universal Connector?

- A. Logstash pipeline
- B. Kafka nodes
- C. Kafka cluster
- D. Filebeat server

**Answer:** A

### NEW QUESTION # 26

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