


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


**DISHA SCIENCE CLASSES**  
 Chapter:- 4. रासायनिक बलगतिकी (Chemical Kinetics)

**विषयनिष्ठ प्रश्न**

**लघु उत्तरीय प्रश्न**

**1. आर्हेनियस समीकरण को लिखें। [2025A]**  
**उत्तर-** अभिक्रिया की वेग का ताप पर निर्भरता को आर्हेनियस ने एक समीकरण के माध्यम से स्पष्ट किया था जिसे आर्हेनियस समीकरण कहते हैं।  

$$K = Ae^{-E_a/RT}$$
**जहाँ,**  
 $K$  = वेग स्थिरांक  
 $A$  = आर्हेनियस गुणांक/ आवृत्ति गुणांक  
 $R$  = गैस नियतांक  
 $T$  = ताप  
 $E_a$  = सक्रियण ऊर्जा

**2. अभिक्रिया का औसत और तात्क्षणिक वेग क्या होता है? [2022A]**  
**उत्तर-** किसी निश्चित समय अंतराल में अभिकारक या उत्पाद के सांद्रता में होने वाली परिवर्तन को औसत वेग कहते हैं।  

$$R \rightarrow P$$
**अभिकारक के लिए-**  
 औसत वेग  $(r_{av}) = \frac{-\Delta[R]}{\Delta t}$   $[\Delta[R] = [R_2 - R_1]]$   
**उत्पाद के लिए**  
 औसत वेग  $(r_{av}) = \frac{+\Delta[P]}{\Delta t}$   $[\Delta[P] = [P_2 - P_1]]$ 
**जहाँ,**  
 $\Delta t$  = समय अंतराल  
**तात्क्षणिक वेग या दर  $(r_{inst})$ :-**  
 किसी रासायनिक अभिक्रिया में किसी निश्चित क्षण (dt) पर अभिक्रिया का वेग तात्क्षणिक वेग कहलाता है।  
 जब  $t \rightarrow 0$   
 तात्क्षणिक दर  $(r_{inst}) = \frac{dx}{dt}$   
विहार में इंटर की वेबसाइट के लिए आपकी YouTube पर Disha Science Classes में जुड़ें। Mob-6201320598, 7700879453

**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 ऊर्जा बढ़ जाता है जिसके फलस्वरूप प्रभावी टक्करों की संख्या भी बढ़ जाती है। अतः अभिक्रिया वेग भी बढ़ जाता है।  
**नोट:-** सामान्यतः  $10^\circ\text{C}$  ताप बढ़ाने पर अभिक्रिया का वेग लगभग 2 गुणा बढ़ जाता है।

**4. अभिक्रिया की कोटि को परिभाषित करें। आप कैसे जानेंगे कि अभिक्रिया प्रथम कोटि की है? [2020A]**  
**उत्तर-** वेग व्यंजक में अभिकारकों के सांद्रताओं के घाटों का योगफल को अभिक्रिया की कोटि कहते हैं।  
 वेग व्यंजक  $= K[A]^x[B]^y$   
 कोटि (n) = x + y  
 यदि किसी अभिक्रिया की कोटि एक होगी तो उसे प्रथम कोटि की अभिक्रिया कहेंगे।

**5. निम्नलिखित की परिभाषा दें।**  
 (a) अभिक्रिया की कोटि [2019A, 2016A, 2011A]  
 (b) थ्रेसहोल्ड ऊर्जा [2016A, 2011A]  
**उत्तर-** (a) **अभिक्रिया की कोटि (Order of Reaction):-** वेग व्यंजक में अभिकारकों के सांद्रताओं के घाटों का योगफल को अभिक्रिया की कोटि कहते हैं।  
 वेग व्यंजक  $= K[A]^x[B]^y$   
 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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