# भाग - IV (क) / PART - IV (A)

# विज्ञान एवं गणित / SCIENCE & MATHEMATICS

परीक्षार्थी निम्नलिखित भाग के प्रश्नों के उत्तर केवल तभी दें यदि उन्होंने विज्ञान एवं गणित का विकल्प चुना हो । Candidates should answer questions from the following part only if they have opted for SCIENCE & MATHEMATICS.

- 91. कशा VII के शिक्षक कशा में निम्नलिखित समस्या पर चर्चा करना चाहते हैं — "एक वर्ग को चार सर्वागसम आयतों में विभाजित किया जाता है । प्रत्येक आयत का परिमाप 40 इकाई है । दिए गये वर्ग का परिमाप क्या है ?" इस समस्या का इल करने के लिए आवश्यक मुख्य गणितीय संकल्पना है
  - वर्ग और आयत का क्षेत्रफल, वर्ग और आयत का परिमाप तथा वर्ग और आयत की परिभाषा
  - (2) वर्ग, आयत, सर्वागसम, परिमाप आदि शब्दाक्ली का अर्थ
  - (3) आयत का क्षेत्रफल, वर्ग का परिमाप
  - (4) समस्या को इल करने के लिए बीज-गणितीय समीकरण का विरचन
- सलमान -3 4 = 7 लिखता है । इस पुटि का कारण है
  - सलमान को समान प्रकार की समस्याओं को इल फरने के अभ्यास की आवश्यकता है ।
  - (2) रालमान को पूर्णाकों के गुजनकल को संकल्पना समझ में नहीं आई ।
  - (3) सलमान लाप्रवाह है ।
  - (4) सलमान को पूर्णाकों के घोनफल की संकल्पना स्पष्ट नहीं है।
- "किन दो संख्याओं को गुणा करने पर 24 मुणन फल प्राप्त होगा ?" यह प्रश्न :
  - (1) वड-अंत वाला प्रश्न है क्योंकि इसके विश्वित संख्या में उत्तर हैं 1
  - (2) बच्चे को सामान्य समस्या-समाधान रणनीतियां को सुझाता है ताकि वे सबी उत्तर दे सकें ।
  - (3) अधिसंआनात्मक रूप से चिन्तन करने में बच्चे की सहायता करता है ।
  - (4) मुक्त अंत वाला प्रश्न है क्योंकि इसके एक से अधिक उत्तर हैं ।

- 91. A class VII teacher wants to discuss the following problem in the class:
  "A square is divided into four congruent rectangles. The perimeter of each rectangle is 40 units. What is the perimeter of given square?" Key mathematical concepts required to solve this problem is
  - area of square and rectangle, perimeter of square and rectangle and definition of square and rectangle.
  - (2) meaning of the terms square, rectangle, congruent, perimeter etc.
  - (3) area of rectangle, perimeter of square.
    (4) formation of algebraic equation to solve the problem.
- 92. Salman solve -3 4 = 7. The error is committed as
  - Salman needs to practice solving problems of similar type.
  - (2) Salman has not understood the concept of multiplication of integers.
  - (3) Salman is careless.
  - (4) Salman is not clear about the concept of addition of integers.
- 93. "Which two numbers when multiplied give the product 24?" This question
  - is a closed ended question as it has definite numbers of answers.
  - (2) suggests general problem solving strategy to the child so that he/she can answer correctly.
  - (3) helps the child to think metacognitively.
  - (4) is an open ended question as it has more than one answer.

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- 1. Understanding the eBook Uptet 2013 Answer Key Paper I Ii Set Wise Solution 2013
  - The Rise of Digital Reading Uptet 2013 Answer Key Paper I Ii Set Wise Solution 2013
  - Advantages of eBooks Over Traditional Books
- 2. Identifying Uptet 2013 Answer Key Paper I Ii Set Wise Solution 2013
  - Exploring Different Genres
  - Considering Fiction vs. Non-Fiction
  - Determining Your Reading Goals
- 3. Choosing the Right eBook Platform
  - Popular eBook Platforms
  - o Features to Look for in an Uptet 2013 Answer Key Paper I Ii Set Wise Solution 2013
  - User-Friendly Interface
- 4. Exploring eBook Recommendations from Uptet 2013 Answer Key Paper I Ii Set Wise Solution 2013
  - Personalized Recommendations
  - Uptet 2013 Answer Key Paper I Ii Set Wise Solution 2013 User Reviews and Ratings
  - Uptet 2013 Answer Key Paper I Ii Set Wise Solution 2013 and Bestseller Lists
- 5. Accessing Uptet 2013 Answer Key Paper I Ii Set Wise Solution 2013 Free and Paid eBooks
  - Uptet 2013 Answer Key Paper I Ii Set Wise Solution 2013 Public Domain eBooks
  - Uptet 2013 Answer Key Paper I Ii Set Wise Solution 2013 eBook Subscription Services
  - Uptet 2013 Answer Key Paper I Ii Set Wise Solution 2013 Budget-Friendly Options
- 6. Navigating Uptet 2013 Answer Key Paper I Ii Set Wise Solution 2013 eBook Formats

- o ePub, PDF, MOBI, and More
- Uptet 2013 Answer Key Paper I Ii Set Wise Solution 2013 Compatibility with Devices
- o Uptet 2013 Answer Key Paper I Ii Set Wise Solution 2013 Enhanced eBook Features
- 7. Enhancing Your Reading Experience
  - o Adjustable Fonts and Text Sizes of Uptet 2013 Answer Key Paper I Ii Set Wise Solution 2013
  - Highlighting and Note-Taking Uptet 2013 Answer Key Paper I Ii Set Wise Solution 2013
  - Interactive Elements Uptet 2013 Answer Key Paper I Ii Set Wise Solution 2013
- 8. Staying Engaged with Uptet 2013 Answer Key Paper I Ii Set Wise Solution 2013
  - Joining Online Reading Communities
  - Participating in Virtual Book Clubs
  - Following Authors and Publishers Uptet 2013 Answer Key Paper I Ii Set Wise Solution 2013
- 9. Balancing eBooks and Physical Books Uptet 2013 Answer Key Paper I Ii Set Wise Solution 2013
  - Benefits of a Digital Library
  - Creating a Diverse Reading Collection Uptet 2013 Answer Key Paper I Ii Set Wise Solution 2013
- 10. Overcoming Reading Challenges
  - Dealing with Digital Eye Strain
  - Minimizing Distractions
  - Managing Screen Time
- 11. Cultivating a Reading Routine Uptet 2013 Answer Key Paper I Ii Set Wise Solution 2013
  - $\circ$  Setting Reading Goals Uptet 2013 Answer Key Paper I Ii Set Wise Solution 2013
  - Carving Out Dedicated Reading Time
- 12. Sourcing Reliable Information of Uptet 2013 Answer Key Paper I Ii Set Wise Solution 2013
  - Fact-Checking eBook Content of Uptet 2013 Answer Key Paper I Ii Set Wise Solution 2013
  - Distinguishing Credible Sources
- 13. Promoting Lifelong Learning
  - Utilizing eBooks for Skill Development
  - Exploring Educational eBooks
- 14. Embracing eBook Trends
  - Integration of Multimedia Elements
  - Interactive and Gamified eBooks

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