

STUDENT'S NAME: .....

OVIJAN ROLL: .....



FULL MARKS: 400

TIME: 2 HOURS

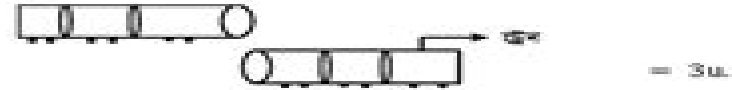
OBTAIN MARKS: .....

০১. দুটি ট্রেন পরস্পরকে বিপরীত দিক থেকে অভিক্রম করে যাদের দৈর্ঘ্য যথাক্রমে 400m এবং 800m। ২য় ট্রেনটির বেগ প্রথম ট্রেনের দ্বিগুন। ট্রেন দুটি পরস্পরকে 10s এ অভিক্রম করে। তাহলে ১ম ট্রেনের গতিবেগ কত? ২য় ট্রেনের গতিবেগ কত?

Solve:

$$\text{মোট দূরত্ব} = (400 + 800)\text{m} = 1200\text{m}$$

$$\text{একটির দাপেতে অপরটির বেগ} = u + 2u$$



$$\therefore \frac{\text{দূরত্ব}}{\text{বেগ}} = \text{সময়}$$

$$\Rightarrow \frac{1200}{3u} = 10$$

$$\Rightarrow u = 30$$

$$\therefore \text{১ম ট্রেনের বেগ} = 30 \text{ ms}^{-1}$$

$$\therefore \text{২য় ট্রেনের বেগ} = 60 \text{ ms}^{-1}$$

০২.  $y = x^4 + 2x^3 - 3x^2 - 4x + 4$  ফাংশনটি কোন কোন ব্যবধিতে হ্রাস পায় এবং কোন কোন ব্যবধিতে বৃদ্ধি পায় তাহা নির্ণয় কর।  $y$  এর সন্ধিস্থ এবং লঘিস্থান বের কর।

এখানে,

$$y = x^4 + 2x^3 - 3x^2 - 4x + 4$$

$$\text{এক. } \frac{dy}{dx} = 4x^3 + 6x^2 - 6x - 4 = 2(x+2), (2x+1), (x-1)$$

$$\therefore \frac{dy}{dx} = 0, x = -2, -\frac{1}{2}, 1$$

$$\text{দ্বন্দ্ব. } x < -2, \text{ এক. তখন } \frac{dy}{dx} = 2(-)(-)(-) = - \text{ এক } y \text{ হ্রাস পায়।}$$

$$\text{দ্বন্দ্ব. } -2 < x < -\frac{1}{2} \text{ এক. তখন } \frac{dy}{dx} = 2(+)(-)(-) = + \text{ এক } y \text{ বৃদ্ধি পায়।}$$

$$\text{দ্বন্দ্ব. } -\frac{1}{2} < x < 1 \text{ এক. তখন } \frac{dy}{dx} = 2(+)(+)(-) = - \text{ এক } y \text{ হ্রাস পায়।}$$

$$\text{দ্বন্দ্ব. } x > 1, \text{ তখন } \frac{dy}{dx} = 2(+)(+)(+) = + \text{ এক } y \text{ বৃদ্ধি পায়।}$$

$$\text{সুতরাং, } x < -2, \text{ ও } -\frac{1}{2} < x < 1 \text{ ব্যবধিতে } y \text{ হ্রাস পায়।}$$

$$\text{এক. } -2 < x < -\frac{1}{2} \text{ এক. } x > 1 \text{ ব্যবধিতে } y \text{ বৃদ্ধি পায়।}$$

$$\text{অতএব, তখন } x = -2, \text{ তখন } \frac{dy}{dx} \text{ এর চিহ্ন } (-ve) \text{ হতে } (+ve) \text{ এ পরিবর্তন হয়, কাজেই}$$

$$x = -2 \text{ বিন্দুতে } y \text{ এর লঘিস্থান আছে এক. লঘিস্থান} = 0$$

$$\text{তখন } x = 1, \text{ তখন } \frac{dy}{dx} \text{ এর চিহ্ন } (-ve) \text{ থেকে পরিবর্তিত হতে } (+ve) \text{ হয়, কাজেই } x = 1 \text{ বিন্দুতে } y \text{ এর লঘিস্থান আছে এক. লঘিস্থান} = 0$$

$$\text{তখন } x = -\frac{1}{2}, \text{ তখন } \frac{dy}{dx} \text{ এর চিহ্ন } (+ve) \text{ থেকে } (-ve) \text{ এ পরিবর্তিত হয়। কাজেই } x = -\frac{1}{2} \text{ বিন্দুতে } \frac{dy}{dx} \text{ এর সন্ধিস্থান আছে এক. সন্ধিস্থান} = \frac{81}{16}$$

$$\frac{81}{16}$$

# Model Test Math 2014jsc

**W. J. Linden**



## **Model Test Math 2014jsc:**

AFOQT Math for Dummies Reza Nazari,2020-06-05 Get ready to succeed on the AFOQT no matter your current understanding of math AFOQT Math test takers 1 Choice Recommended by Test Prep Experts The perfect guide for students of every level AFOQT Math for Dummies will help you incorporate the most effective methods and all the right strategies to get ready for your AFOQT Math test This up to date guide reflects the 2020 test guidelines and will set you on the right track to hone your math skills overcome exam anxiety and boost your confidence Are you ready to ace the AFOQT Math test AFOQT Math for Dummies creates confident knowledgeable students that have all the skills they need to succeed on the AFOQT It builds a solid foundation of mathematical concepts through easy to understand lessons and basic study guides Not only does this all inclusive workbook offer everything you will ever need to conquer the AFOQT Math test but it also contains two full length and realistic AFOQT Math tests that reflect the format and question types on the AFOQT to help you check your exam readiness and identify where you need more practice With this book students will learn math through structured lessons complete with a study guide for each segment to help understand and retain concepts after the lesson is complete It includes everything from Content 100% aligned with the 2020 AFOQT test Written by AFOQT Math tutors and test experts Complete coverage of all AFOQT Math concepts and topics on the 2020 AFOQT test Step by step guide for all AFOQT Math topics Over 500 additional AFOQT math practice questions in both multiple choice and grid in formats with answers grouped by topic so you can focus on your weak areas Abundant Math skills building exercises to help test takers approach unfamiliar question types 2 full length practice tests featuring new question types with detailed answers And much more With this self study guide you won t need a math tutor to pave your path to success AFOQT Math for Dummies is the only book you ll ever need to master AFOQT Math concepts and ace the AFOQT Math test Ideal for self study and classroom usage Visit [www.EffortlessMath.com](http://www.EffortlessMath.com) for Online Math Practice **Mathematical Models with Applications Test Booklet Units 1-10**

**(RES)** Responsive Education Solutions Staff,2015-08 Key Individual Test Booklet for Mathematical Models with Applications Units 1 10 **ASSET Test Advanced Math Success Study Guide** Academic Success Academic Success Media,2014-08-19 The ASSET Test Advanced Math Success Study Guide consists of three parts Part 1 Skills Overview and Formulas Provides practice test problems in each of the skill areas with in depth illustrations of how to solve each kind of problem Part 2 100 Asset Advanced Math Practice Test Problems Contains Elementary and Intermediate Algebra College Algebra and Geometry Problems like the real exam Part 3 Step by step solutions to the 100 advanced math problems Shows how to solve each problem with clear explanations and solutions The questions in this publication contain the same types of math problems with the same level of difficulty that you will encounter on the actual ASSET test For a list of the individual math skills covered in the book please use the Look Inside function at the left hand side of the screen to view the table of contents You may also be interested in our other publications ASSET Test Numerical Skills Success Study Guide ASSET Test Reading and

Writing Skills Success Basic Skills Practice Tests      *Linear Models for Optimal Test Design* Wim J. van der Linden, 2006-01-01 Over my nearly forty years of teaching and conducting research in the field of psychometric methods I have seen a number of major technical advances that respond to pressing educational and psychological measurement problems. The development of criterion-referenced assessment was the first beginning in the late 1960s with the important work of Robert Glaser and Jim Popham in response to the need for assessments that considered candidate performance in relation to a well-defined body of knowledge and skills rather than in relation to a norm group. The development of criterion-referenced testing methodology with a focus on decision-theoretic concepts and methods, content validity, standard setting, and the recognition of the merits of both criterion- and norm-referenced assessments has tremendously influenced current test theory and testing. The second major advance was the introduction of item response theory (IRT) and associated models and their applications to replace classical test theory (CTT) and related practices. Beginning slowly in the 1940s and 1950s with the pioneering work of Frederic Lord, Allan Birnbaum, and Georg Rasch, by the 1970s the measurement journals were full of important research studies describing new IRT models, technical advances in model parameter estimation and model fit, and research on applications of IRT models to equating, test development, the detection of potentially biased test items, and adaptive testing. The overall goal has been to improve and expand measurement practices by overcoming several shortcomings of classical test theory: dependence of test item statistics and reliability estimates on examinee samples, dependence of examinee true score estimates on the particular choices of test items, and the limitation in CTT of modeling examinee performance at the test level rather than at the item level.      **GAIMME** Solomon A. Garfunkel, Michelle Montgomery, 2016

*GAIMME — Guidelines for Assessment and Instruction in Mathematical Modeling Education*, 2019      Mathematical Models with Applications Daniel L. Timmons, Catherine W. Johnson, Sonya M. McCook, 2006-03 This text makes math fun, approachable, and applicable in everyday life. The authors provide algebraic modeling concepts and solutions in non-threatening, easy-to-understand language with numerous step-by-step examples to illustrate ideas. Whether they are going on to study early childhood education, graphic arts, automotive technologies, criminal justice, or something else, students will discover that the practical applications of mathematical modeling will continue to be useful well after they have finished this course.      *Linear Models for Optimal Test Design* W. J. Linden, 2011-03-21

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