

Roll No

BT-202 (GS)**B.Tech., I & II Semester**

Examination Model Paper, June 2023

Grading System (GS)**Mathematics-II***Time : Three Hours***Maximum Marks : 70**

Note : i) Attempt any five questions.

ii) All questions carry equal marks.

1.a) Solve the following differential equation 7

$$\frac{d^2y}{dx^2} + \frac{dy}{dx} + y = \cos 2x$$

b) Solve $x^2p^3 + y(1 + x^2y)p^2 + y^2p = 0$, where $p = \frac{dy}{dx}$ 72.a) Solve the differential equation $\frac{d^2x}{dt^2} - 2\tan x \frac{dx}{dt} - 5x = \cos 2x$ by reducing it in normal form. 7b) Solve $\frac{d^2y}{dx^2} + 2x \frac{dy}{dx} + (x^2 + 1)y = x^2 + 3x$ by changing it in normal form. 73.a) Solve the differential equation $(D^2 - 6D + 9)y = \frac{e^{2x}}{x^2}$ using variation of parameter. 7b) Show that $J_n(-x) = (-1)^n J_n(x)$ when n is a +ve or -ve integer. 74.a) Solve $x^2p + y^2q = (x + y)z$ 7b) Use Lagrange's method, solve the equation $xz p + yz q = xy$ 7

5.a) Prove that an analytic function with constant modulus is constant. 7

b) Show that the function $f(z) = e^z$ is analytic everywhere. 76.a) Show that the following function is harmonic and find its harmonic conjugate functions $u = \frac{1}{3} \log(x^2 + y^2)$ 7

b) Evaluate the following integral using Cauchy-Integral formula 7

$$\oint_C \frac{4 - 3z}{z(z-1)(z-2)} dz, \text{ where } C \text{ is the circle } |z| = 3/2$$

Grdecaps Mathematic June 2question Paper

Camilla Rothe



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Questions in Standard Grade Maths M C Davis,2000-01-01 Provides valuable practice and useful preparation for the exam The Skills and Techniques unit allows teachers to identify key student strengths and weaknesses Includes two practice papers at both General and Credit level with pull out answers Frequent references to worked examples in Standard Grade Maths Revision Notes enable students to target difficult topic areas **Mathematics** ,1994 Ohio Test Prep Student Quiz Book Mathematics, Grade 4 Test Master Press Ohio,2015-10-09 Prepares students for Ohio s New Mathematics Tests for 2015 2016 This quiz book covers every math skill that Ohio students are expected to master Each quiz focuses on one specific skill with questions progressing from simple to more complex Students will develop a thorough understanding of each skill while also gaining experience with all the types of tasks found on Ohio s new state tests The quizzes in this book can be easily integrated into student learning for effective revision and test preparation Complete Coverage of Ohio s Mathematics Standards Covers every skill listed in Ohio s New Learning Standards Common Core State Standards Includes sections for operations and algebraic thinking number and operations fractions measurement data and geometry Focused quizzes cover each specific skill individually Quizzes include a range of tasks to promote thorough understanding Easily integrates with student learning throughout the year Prepares Students for Ohio s New State Tests Covers all the skills assessed on the state tests Includes practice for questions involving writing equations drawing objects on grids creating graphs completing tables and giving written answers Question formats mimic the technology enhanced questions and will prepare students to take the tests online More rigorous questions prepare students for the higher difficulty of the new assessments Develops the thorough and in depth understanding needed for the new tests Gives students practice using modeling and reasoning skills along with math knowledge Guided tasks teach students what is expected in answers Key Benefits Develops a thorough understanding by focusing on one skill at a time Reduces test anxiety by allowing ongoing test practice Individual quizzes allow gaps in knowledge to be targeted Ensures students are comfortable with a range of question formats Prepares students for more complex and advanced questions Provides revision and test practice as the student learns **Louisiana Test Prep Student Quiz Book Mathematics Grade 3** Test Master Press Louisiana,2016-01-05 Preparation for the LEAP Mathematics Assessment for 2015 2016 This quiz book covers every math skill that students are expected to master Each quiz focuses on one specific skill with questions progressing from simple to more complex Students will develop a thorough understanding of each skill while also gaining experience with all the types of tasks found on the LEAP assessments The quizzes in this book can be easily integrated into student learning for effective revision and test preparation Complete Coverage of Louisiana s Mathematics Standards Covers every skill listed in Louisiana s mathematics standards Includes sections for operations and algebraic thinking number and operations fractions measurement data and geometry Focused quizzes cover each specific skill individually Quizzes include a range of tasks to

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