- 1. Express 0.0098 in standard form (a) 9.8×10^{-3} (b) 9.8×10^{-2} (c) $) <math>9.8 \times 10^{-2}$ (d) $) 9.8 \times 10^{-3}$
- Calculate 73 x 98, leaving your answer in the standard form (a) 7.154 x 10⁻³ (b) 7.154 x 10⁻² (c) 7.154 x 10³ (d) 7.154 x 10²
- 3. If $2^{-3m}=32$, find the value of m (a) $-4\frac{2}{3}$ (b) 5 (c) $-1\frac{2}{3}$ (d) $-2\frac{2}{3}$
- If 3^{2x-1}=1/27, find the value of x (a) -2 (b) -1 (c) 1 (d) 2
- A number is multiplied by 5 and the result is twice the number added to 2, find the number. (a) 2/7 (b) 2/3 (c) 1 ½ (d) 3 ½
- Factorize x²-10x+25 (a) (x+5)(x-2) (b) (x-5)(x-5) (c) (x+5)(x-5) (d) (x+10)(x-2)
- 7. The tangent of 32 ½ ° equal to_____(a) 0.2309 (b) 0.6371 (c) 0.8229 (d) 0.8214
- Find the angle whose sine is 0.8660 (a) 30° (b) 60° (c) 45° (d) 90°
- If t varies directly as s and t = ½, when s=4 find t when s=6 (a) ¾ (b) 4/3 (c) 6/9 (d)1/8
- P varies Q and P=45 when Q =12, find the relationship between P and Q. (a)P= 3.75Q
 Q=0.375P (c) P= 0.573 (d) Q=0.573P
- Convert 142₁₀ to base six (a) 354_{six} (b) 322_{six} (c) 453_{six} (d) 543_{six}
- $12. \text{Express } 110111_{\text{two}} \text{ to base } 10 \quad \text{(a) } 65_{\text{ten}} \quad \text{(b) } 56_{\text{ten}} \quad \text{(c) } 55_{\text{ten}} \quad \text{(d) } 555_{\text{ten}}$
- 13. If sin A=4/5, the Cos A = (a) 2/5 (b) 3/5 (c) % (d) 5/4
- 14. Calculate the area of a sector circle which subtends an angle of 45° at the centre of the circle, radius 14cm ($\pi = \frac{22}{7}$) (A) 77cm (B) 75cm (C)76cm (D) 87cm
- 15. Solve the equation $8x^2$ 14x + 5 = 0 (a) $x = \frac{1}{2}$ or $1\frac{1}{2}$ (b) $x = \frac{-1}{4}$ or $\frac{1}{2}$ (c) $x = -2\frac{1}{4}$ or $\frac{-1}{2}$ (d) $x = \frac{4}{5}$ or $\frac{1}{2}$ (e) $x = \frac{1}{2}$ or $\frac{5}{4}$
- 16. Find the equation whose roots are $\frac{-2}{3}$ and $\frac{3}{4}$ (a) $12x^2-x-6=0$ (b) $12x^2-7x-6=0$ (c) $15x^2-7x-5=0$ (d) $12x^2-7x-6=0$ (e) $12x^2+4x-6=0$
- 17. Solve the equation $9x^2 = 3x$ (a) $x = \frac{1}{3}$ (b) x = 0 or $\frac{1}{2}$ (c) x = 0 or $\frac{1}{3}$ (d) x = 1 or $\frac{2}{3}$ (e) x = 3 or x = -3
- 18. What is the sine equivalent of $\cos 60^\circ$ (a) 30° (b) 45° (c) 90° (d) 45° (e) 75°
- 19.. If sin P =0.5, What is Cos ? (a) 30° (b) 45° (c) 90° (d) 60.° (e) 75°
- 20...Solve for n, in 5n=625 (a) 125 (b) 25 (c) 225 (d) 3 (d) 15

THEORY QUESTION

SECTION B: Answer all the questions in this Section

- 1. If $\tan \theta = \frac{8}{15}$, find the value of: (i) $\frac{\sin \theta + \cos \theta}{\cos \theta \downarrow \downarrow}$ (ii) 1- 2 $\tan \theta$ (5 m/s)
- 400 students were asked whether they liked yam, cornflakes, bread, rice or some other type of food for breakfast, the following data was recorded.

Type of Food	Yam	Cornflakes	Bread	Rice	Other
Frequency	65	110	80	120	25

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Teaching Secondary and Middle School Mathematics Daniel J. Brahier, 2024-01-22 Teaching Secondary and Middle School Mathematics combines the latest developments in research technology and standards with a vibrant writing style to help teachers prepare for the excitement and challenges of teaching secondary and middle school mathematics The book explores the mathematics teaching profession by examining the processes of planning teaching and assessing student progress through practical examples and recommendations Beginning with an examination of what it means to teach and learn mathematics the reader is led through the essential components of teaching concluding with an examination of how teachers continue with professional development throughout their careers Hundreds of citations are used to support the ideas presented in the text and specific websites and other resources are presented for future study by the reader Classroom scenarios are presented to engage the reader in thinking through specific challenges that are common in mathematics classrooms The seventh edition has been updated and expanded with particular emphasis on the latest technology standards and other resources The reader is introduced to the ways that students think and how to best meet their needs through planning that involves attention to differentiation as well as how to manage a classroom for success Features include Following on from the sixth edition assessment takes a central role in planning and teaching Unit 3 of 5 addresses the use of summative and formative assessments to inform classroom teaching practices A new appendix is included that lists websites that can be used in a methods class to view other teachers interacting with students for discussion of effective teaching practices The feature entitled Links and Resources has been updated in each of the 13 chapters Five strongly recommended and practical resources are spotlighted at the end of each chapter as an easy reference to some of the most important materials on the topic Approximately 150 new citations have either replaced or been added to the text to reflect the latest in research materials and resources that support the teaching of mathematics Significant revisions have been made to Chapter 12 which now includes updated research and practices as well as a discussion on culturally responsive pedagogy Likewise Chapter 8 now includes a description of best and high leverage teaching practices and a discussion in Chapter 11 on alternative high school mathematics electives for students has been added Chapter 9 on the practical use of classroom technology has again been revised to reflect the latest tools available to classroom teachers including apps that can be run on handheld personal devices in light of changes in education resulting from the global pandemic An updated Instructor's Manual features a test bank sample classroom activities PowerPoint slide content chapter summaries and learning outcomes for each chapter and can be accessed by instructors online at www routledge com 9781032472867 **Business** Mathematics And Statistics Class - XII - SBPD Publications [2022-23] Dr. S.K. Singh, ,Dr. Awadhesh Kumar Singh, "Sudha Singh, 2022-10-11 BUSINESS MATHEMATICS 1 Arithmetic Progression A P 2 Geometric Progression G P 3 Harmonic Progression H P 4 Properties of A P G P and H P 5 Permutation and Combination 6 Determinants 7 Matrices 8 Set Theory 9

Differentiation 10 Integration STATISTICS 1 Measures of Central Tendency Arithmetic Mean 2 Median 3 Mode 4 Geometric Mean 5 Harmonic Mean 6 Analysis of Time Series 7 Theory of Probability 8 Interpolation and Extrapolation Log and Antilog Tables Latest Model Paper Board Examination Paper **Business Mathematics And Statistics Class 12 Revised 17th** Edition for the Session of 2024-25 Dr. S. K. Singh, Dr. Awadesh Kumar Singh, Sudha Singh, 2024-03-15 BUSINESS MATHEMATICS 1 Arithmetic Progression A P 2 Geometric Progression G P 3 Harmonic Progression H P 4 Properties of A P G P and H P 5 Permutation and Combination 6 Determinants 7 Matrices 8 Set Theor9 Differentiation 10 Integration STATISTICS 1 Measures of Central Tendency Arithmetic Mean 2 Median 3 Mode 4 Geometric Mean 5 Harmonic Mean 6 Analysis of Time Series 7 Theory of Probability 8 Interpolation and Extrapolation Log and Antilog Tables Latest Model Paper NAME OF THE PROPERTY OF THE PR **Board Examination Paper** And Statistics Class XII) - SBPD Publications [2022-23] Dr. S. K. Singh, Sudha Singh, Samresh Chauhan, 2022-03-10 Strictly in accordance with the latest syllabus and question pattern prescribed by the Jharkhand Academic Council JAC Ranchi for Class XII BUSINESS MATHEMATICS 1 Arithmetic Progression A P 2 Geometric Progression G P 3 Harmonic Progression H P 4 Properties of A P G P and H P 5 Permutation and Combination 6 Determinants 7 Matrices 8 Set Theory 9 Differentiation 10 Integration STATISTICS 1 Measures of Central Tendency Arithmetic Mean 2 Median 3 Mode 4 Geometric Mean 5 Harmonic Mean 6 Analysis of Time Series 7 Theory of Probability 8 Interpolation and Extrapolation Log and Antilog Tables Latest Model Paper Board Examination Paper Finance, Economics, and Mathematics Oldrich A. Vasicek, 2015-12-14 The compiled works of the man behind the evolution of quantitative finance Finance Economics and Mathematics is the complete Vasicek reference work including published and unpublished work and interviews with the man himself The name Oldrich A Vasicek is synonymous with cutting edge research in the finance fields and this book comes straight from the source to bring you the undiluted mother lode of guant wisdom from one of the founders of the field From his early work in yield curve dynamics to the mean reverting short rate model to his thoughts on derivatives pricing to his work on credit risk to his most recent research on the economics of interest rates this book represents the life s work of an industry leader Going beyond the papers you ll also find the more personal side inspirational as Vasicek talks about the academics and professionals who made lasting impressions and collaborated debated and ultimately helped spawn some of his greatest thinking Oldrich Vasicek has won virtually every important award and prize for his groundbreaking research in quantitative finance You ve followed his work for years this book puts it all in a single volume to give you the definitive reference you ll turn to again and again Explore Vasicek's insights on topics he helped create Discover his research and ideas that have gone unpublished until now Understand yield curves and the Vasicek model from the source himself Gain a reference collection of some of the most influential work in quantitative finance Vasicek's research is the foundation of one of the most important innovations in finance Quants around the world have been influenced by his ideas and his status as

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