Summaries SA
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GRADE 12 MATHEMATICS
NOVEMBER EXAMINATION PAPER 2

QUESTION 1

The following frequency table provides the number of goals scored by the Protea netball team during 50 matches in 2018.

Number of goals	Frequency	Cumulative Frequency
$5 < x \le 10$	6	b
$10 < x \le 15$	a	14
$15 < x \le 20$	13	27
$20 < x \le 25$	9	c
$25 < x \le 30$	7	43
$30 < x \le 35$	d	48
$35 < x \le 40$	e	50

1.1 Determine the values a to e. (5)

1.2 Calculate the average goals scored in 2018. (2)

[7]

QUESTION 2

The table below shows the data for the heartrate per minute of ten males. Their heartrate is checked before they cycle for 10min (x) and after they have exercised (y).

	1	2	3	4	5	6	7	8	9	10
Heartrate before	68	90	125	80	88	112	53	110	85	130
Heartrate after	95	100	158	125	138	148	90	175	160	190

2.1 Represent the data as a scatter diagram on the grid provided. (3)

2.2 Calculate the mean heartrate before AND after exercise. (2)

2.3 Determine the formula for the least regression line to 4 decimal places. (2)

2.4 Calculate the correlation coefficient to 4 decimal places AND comment on the strength of it. (2)

2.5 Draw the least squares regression line on your scatter diagram. (7)

[16]

QUESTION 3

The table below shows the distances (in kilometers) travelled daily by a sales representative for 21 working days in a certain month.
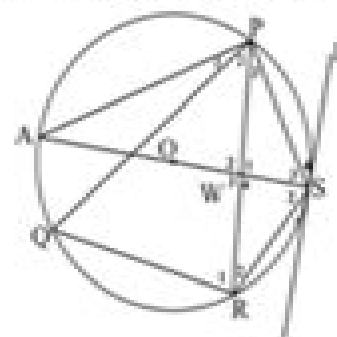
131	132	140	140	141	144	146
147	149	150	151	159	167	169
169	172	174	175	178	187	189

3.1 Calculate the mean distance travelled by the sales representative. (2)

3.2 Write down the five-number summary for this data. (4)

3.3 Draw the box-and-whisker diagram for this set of data. (2)

3.4 Calculate the standard deviation of the distance travelled. (2)

[10]

QUESTION 4

4.1 The diagram shows P, A, Q, R and S lies on the circumference of the circle with centre O. SB is a tangent at S and RSWP; AOWS and PWP are straightlines.

Proof that:

4.1.1 $SB \parallel AP$ (4)

4.1.2 $SR^2 = WS \cdot AS$ (5)

4.1.3 $AS = \dfrac{SW^2}{WS} + WS$ (4)

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J Dewey

Mathematics Papernovember 2memo:

Third Symposium Proceedings. New Ways of Teaching and Learning Janina Morska,Alan Rogerson, This volume contains the papers presented at the Third International Symposium on New Ways of Teaching Learning held from August 6 10 2024 at the Aemilia Hotel Bologna Italy The Conference was organized by The Mathematics Education for the Future Project an international educational project founded in 1986 and dedicated to innovation in mathematics statistics science and computer education world wide *Nta Ugc Net/Jrf/Set Paper 2 History 27 Solved Papers (2012–2021) & 10 Practice Sets* Team Prabhat,2022-04-05 Unlock the World of NTA UGC NET JRF SET History with 27 Solved Papers 10 Practice Sets by Team Prabhat Prepare to embark on a transformative journey through the rich history of India with NTA UGC NET JRF SET Paper 2 History 27 Solved Papers 2012 2021 10 Practice Sets by Team Prabhat This meticulously curated collection is your ultimate companion for mastering the History Paper 2 exam Discover the Power of Knowledge With a treasure trove of 27 solved papers spanning from 2012 to 2021 and 10 comprehensive practice sets this book offers a unique opportunity to immerse yourself in the world of historical facts events and research Dive deep into India s past understanding its intricacies and nuances with each turn of the page For aspirants of the NTA UGC NET JRF or SET this book is your gateway to success Each solved paper is a roadmap to excellence helping you understand the exam s nuances and patterns while the practice sets enable you to fine tune your knowledge and test taking skills Why 27 Solved Papers 10 Practice Sets is a Must Have Proven Success Benefit from the insights gained through 27 solved papers offering a clear understanding of what to expect in the exam and how to tackle it Master Your Skills With 10 practice sets you have the perfect arena to hone your knowledge time management and problem solving abilities Comprehensive Coverage This book delves into the vast historical landscape ensuring you are well prepared for any question that may arise in the examination Expert Guidance Team Prabhat with its wealth of experience has meticulously crafted this book to serve as your trusted mentor throughout your preparation journey Don t miss your chance to excel in the NTA UGC NET JRF SET History Paper 2 exam Let 27 Solved Papers 10 Practice Sets be your guiding light to success Grab your copy now and set out on a path to historical brilliance that will open new doors of opportunity in your academic career Interpellations, Questions and Replies of the National Assembly South Africa. Parliament (1994-). National Assembly,1997 **Interpolation for Normal Bundles of General Curves** Atanas Atanasov,Eric Larson,David Yang,2019-02-21 Given n general points p1 p2 pn Pr it is natural to ask when there exists a curve C Pr of degree d and genus g passing through p1 p2 pn In this paper the authors give a complete answer to this question for curves C with nonspecial hyperplane section This result is a consequence of our main theorem which states that the normal bundle NC of a general nonspecial curve of degree d and genus g in Pr with d g r has the property of interpolation i e that for a general effective divisor D of any degree on C either H0 NC D 0 or H1 NC D 0 with exactly three exceptions **Abstracts of Papers Presented to the American Mathematical Society** American Mathematical Society,1981 *Parliamentary*

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web trimyristin compound from nutmeg seed trimyristin compounds contained in nutmeg seed is very important to be isolated because it has various benefits trimyristin along with myristic acid myristicin and elemicin have antioxidant anticonvulsant analgesic anti inflammatory antidiabetic antibacterial and anti fungal activity
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web aug 4 2008   the purpose of this experiment was extract isolate and purify the natural product trimyristin from the spice nutmeg the trimyristin was extracted by using the solvent diethyl ether and
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web trimyristin is found in the fixed oil of nutmeg the fixed oil comprises approximately 24 40 of the nutmeg seed trimyristin comprises 73 of the fixed oil overall trimyristin should have percent recovery of 18 29 1 figure 1 shows how trimyristin is triester formed from the dehydration reaction between glycerol and myristic acid oh
isolation of trimyristin from nutmeg name report studocu - Jan 11 2023
web purpose the purpose of this lab is to extract trimyristin from nutmeg as well as synthesizing myristic acid from the extracted trimyristin using base hydrolysis and naoh acidification using hcl is necessary to characterize the product by finding the melting point
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web in this lab trimyristin is extracted from ground nutmeg occuring in many vegetable oils as well as myristic acid trimyristin consists of long saturated hydrocarbon chains and it is relatively nonpolar thus using a relatively nonpolar solvent trimyristin can be easily extracted by the concept of like dissolves like
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web the desired components of solids are dissolved in a solvent then the remaining solid is filtered so that the selected element and solvent are left over in this lab the trimyristin was dissolved into the solvent and the remainder of the nutmeg was filtered out
lab experiment 3 trimyristin extraction from nutmeg docsity - Feb 12 2023
web may 1 2011   experiment 3 1 february 2010 grade a small scale extraction of trimyristin from nutmeg introduction the purpose of this experiment is to collect trimyristin from an amount of nutmeg provided trimyristin is a type of triglyceride containing the fatty acid myristic acid also known as tetradecanoic acid
nutmeg lab final report isolation and purification of trimyristin - May 03 2022
web final report isolation and purification of trimyristin from nutmeg 2 purpose the purpose of this experiment is to isolate a

chemical in nutmeg called trimyristin through extraction and to perform ir spectroscopy on this sample to determine its functional groups chemical structures signatures