



NOTICE

DATE - 02/09/2023

ATKT Internal Examination September, 2023
BBI (SEM. II)

INSTRUCTIONS FOR THE STUDENTS HAVING ATKT IN INTERNALS:

1. **Date of Submission of the Projects-16th September, 2023. Timings 9.00 am to 10.45 am.**
2. **Reporting time for students: at least 10 minutes before the mentioned time. Venue: Second floor staffroom.**
3. **Reporting time for students at least 10 minutes before the mentioned time.**
4. Students have to be present in person for the submission.
5. Internal project topics are also uploaded on the college website.
6. Submission of projects or assignments to be done on proper A4 size paper, handwritten by the candidate himself only. The Front page should contain details of Roll no, Name of the student, Semester, Subject.
7. Print out of the questions uploaded should be attached along with the project. Students should also enclose a photocopy of the ATKT fee paid receipt along with each of his projects.
8. On the date of submission there will be a viva voce on the given questions/topics.
9. If the student fails to present himself on the given date and time he will be marked ABSENT for the said subject.
10. **Any Submissions after the above mentioned date and time will not be accepted and entertained under any circumstances.**
11. **NOTE - Students who has paid ATKT fees for internal component but has not been allotted questions or has any query is requested to contact Ms.Namrata on or before 12th September, 2023 by mailing on namrata.m@dalmialionscollege.ac.in or bbidept@dalmialionscollege.ac.in**

Kindly follow the following schedule to your project submission and viva:

| SUBJECT | FACULTY | TIME |
|--------------------------------|-------------|------------------|
| PPBI (10) | Ms. Namrata | 9.00 to 10.00 am |
| LAW (07) | Ms.Poonam | 9.00 to 10.00 am |
| FINANCIAL ACCOUNTING - II (28) | Ms. Ruchira | 9.00 to 10.40 am |
| FOUNDATION COURSE - II (02) | Ms.Namrata | 9.00 to 10.00 am |
| QMB (08) | Mr. Aditya | 9.00 to 10.00 am |

Prof. Durgesh Kenkre
Exam Convenor

Prof. Subhashini Naikar
Vice Principal, SFC

Prof. (Dr.) D. N. Ganjewar
I/c Principal

DI/N-STD/GEN/00

ATKT Internal Examination September, 2023
BBI (SEM II)

QUESTIONS FOR THE STUDENTS HAVING ATKT IN INTERNALS

PPBI

1023 GIRI PRIYANSHU

1. Explain the functions of a commercial Bank
2. Explain Digitalization in banks.
3. Write Benefits of Insurance.
4. Explain Ombudsmen - its duties and power also.

1044 JOSHI BHAKTI

1. Explain the functions of banks.
2. Explain the different types of accounts that can be opened with a bank.
3. Explain in detail the claims settlement procedure.
4. Explain all the principles of insurance.

1063 NAIK GAURAV

1. Explain the different types of deposits given by banks.
2. Explain the need and scope of insurance
3. Explain the different types of insurance with examples.
4. Define banks and banking company. Give a brief of different types of banks.

1091 SHARMA HARSH

1. What are the main functions of a bank?
2. What are the scopes for banking?
3. Distinguish between Commercial banks and co-operative banks.
4. Explain the scope of financial inclusion.

1094 SHETTY RAKSHITH

1. Differentiate fixed account from saving account.
2. Distinguish between ATM, Credit card and Debit card
3. Explain any 2 provisions of Banking Regulation Act, 1949
4. What are the basic principles of insurance? Explain any 2

1095 SINGH PRAFUL PRAVINKUMAR

1. Explain meaning of Actuary and its role of actuaries.
2. Distinguish between fire insurance and marine insurance
3. Write short note on Single premium policy.
4. What are the powers of Insurance Ombudsman?

1098 SINGH VISHAL MUMTUN

- 1) Write short note on Actuary? (Define - give its meaning and functions)
- 2) Explain the claim settlement procedure under marine insurance
- 3) Write a note on functions of IRDA.
- 4) Write short note on parties to a pledge and their functions.

1100 SONI KHUSHI

- 1) What are the precautions to be taken when a credit card is talent?
- 2) What is the need for taking out insurance?
- 3) Write a note on bankers bank
- 4) Explain claim settlement under fire insurance

1103 TANDALE SABURI

1. Explain the different types of deposits issued by the bank.
2. Explain any 3 agency functions of bank.
3. Explain the different types of advances given by a bank
4. Write a short note on EXIM bank

1124 KHAN ARSHI

1. Write short note on NABARD and IFCI
2. Explain RTGS and E-Banking in detail.
3. Explain privileges enjoyed by current account holders.
4. What are the powers of RBI over Banking Companies?

LAW

1010 CHAVAN SUJAL

- 1) Write a note on Digital certificate.
- 2) Explain the fundamental rights of an Indian citizen as provided in the Constitution.
- 3) Explain the different types of contracts.
- 4) Distinguish between indemnity and guarantee.

1023 GIRI PRIYANSHU

- 1) With reference to the Constitution of India- explain the principles of natural justice.
- 2) Explain the kinds and classifications of contracts.
- 3) Distinguish between pledge and hypothecation.
- 4) Write short notes on: a) Contract by minor and b) Agency contracts.

1034 GUPTA RIYA PHOOLCHAND

- 1) Write a short note on E- Governance
- 2) Define agreement and its features.
- 3) What are quasi contracts?
- 4) Explain the concept of bailment in detail.

1063 NAIK GAURAV

- 1) Explain the concept of natural justice with respect to the Indian Constitution.
- 2) Distinguish between offer and acceptance.
- 3) Write a note on contingent contracts.
- 4) Explain the features of Sale of Goods Act.

1076 PANDEY ADARSH

- 1) Explain the different types of writs.
- 2) Write a note on consideration as provided by Indian Contract Act.
- 3) Distinguish between conditions and warranties.
- 4) Explain concept of dishonour of cheque.

1079 PRAJAPATI SHUBHAM

- 1) Explain in detail a promissory note.
- 2) Distinguish between promissory note and bill of exchange.
- 3) Who is an unpaid seller?
- 4) Explain the concept of agency and mode and creation and termination of agency.

1124 KHAN ARSHI

- 1) Explain in detail 'cheque' as per Negotiable Instrument Act.
- 2) Explain the different types of contracts.
- 3) Write short note on a contract by minor.
- 4) Define Proposal. Explain the rules or essentials of a valid proposal.

FINANCIAL ACCOUNTING - II

1012 DAS SOUMEN

1. Write a short note on types of debentures
2. Write a short note on Forfeiture of shares
3. Write a short note on Sinking fund
4. Explain the Provision of the companies Act,1956 regarding redemption of Preference share

1018 DUBEY AMAN

1. Explain Intrinsic Value Method, Yield method and Fair Value Method with formulae
2. Capital redemption reserve
3. Legal provision for issue of debenture
4. Terms of redemption of debentures

1022 GHODE ASHWINI

1. Explain the process of Share issue
2. Forfeiture of shares
3. Employee Stock Option Plan
4. Legal Provision for Restriction on Buyback

1024 GOUND ASHISH JAGDISH

1. Write short note on CRR
2. Fair value method of shares
3. Types of Preference Shares
4. Sinking fund

1030 GUPTA KARAN JAIPRAKASH

1. Divisible Profit & non divisible profit
2. Intrinsic Value method of valuation of shares.
3. Explain Forfeiture & reissue of Shares
4. Explain Bonus Shares

1032 GUPTA KOMAL RAJESH

1. Types of debentures
2. Terms of redemption of debentures
3. Super profit method of valuation of goodwill
4. Methods of goodwill Calculation

1032 JAISWAR PRAGYA GULABCHAND

- 1) Define Goodwill & explain Maintainable Profit method
- 2) Write short note on Super Profit Method of valuation of goodwill
- 3) Explain the Provision of the companies Act,1956 regarding redemption of Preference share.
- 4) Yield Value method of valuing share

1033 GUPTA RAHUL RAMNIWAS

- 1) FYBBI Ltd redeemed 16000 11.5% Preference shares of Rs. 100 each at 10% premium. The company issued 6000 equity shares of Rs. 100 at par for redemption of preference shares. The Company has general reserve of Rs 1500000. Pass necessary journal entries.
- 2) Explain in detail about Valuation of Goodwill.
- 3) Write a detailed note on Sinking fund
- 4) Explain Forfeiture & reissue of Shares

1034 GUPA RIYA PHOOLCHAND

- 1) Write a short note on Maintainable profit method of valuing goodwill.
- 2) Distinguish between buy back of shares and redemption of shares.
- 3) Profit for the past five years are Rs.15000, Rs.14000, Rs.19000, Rs.26000 and Rs.18000. Calculate the value of goodwill at 3 years purchase of the average profits of past 5 years.
- 4) Company has 1,000 Preference shares of Rs.100 each redeemable at a premium of 10%. The company has sufficient balance in reserves. Journalise the above transactions in the books of the company.

1035 GUPTA SHREYA RAVINDRA

- 1) Write a short note on Super profit method of valuing goodwill.
- 2) Write short note on Capital Redemption of preference shares.
- 3) Profit for the past five years are Rs.55000, Rs.54000, Rs.59000, Rs.56000 and Rs.58000. Calculate the value of goodwill at 3 years purchase of the average profits of past 5 years.
- 4) Hinduja Company Ltd. had 5,000, 8% Redeemable Preference Shares of `100 each, fully paid up. The company decided to redeem these preference shares at par by the issue of sufficient number of equity shares of `10 each fully paid up at par. You are required to pass necessary journal entries.

1039 JAIN HAIRAT

- 1) Define goodwill and when is goodwill valued.
- 2) Distinguish between divisible and non-divisible profits.
- 3) Profit for the past five years are Rs.15000, Rs.14000, Rs.19000, Rs.26000 and Rs.18000. Calculate the value of goodwill at 2.5 times the average profits of past 3 years.
- 4) C Ltd. had 10,000, 10% Redeemable Preference Shares of `100 each, fully paid up. The company decided to redeem these preference shares at par, by issue of sufficient number of equity shares of `10 each at a premium of `2 per share as fully paid up. You are required to pass necessary Journal Entries

1044 JOSHI BHAKTI

- 1) Explain intrinsic method of valuation of equity shares.
- 2) What do you mean by redemption of preference shares? Explain the legal provisions.
- 3) Profits for the past three years are Rs.126000, Rs.145000 and Rs.161000. Value goodwill at 2 times the average profits of past 3 years.
- 4) G India Ltd. had 9,000 10% redeemable Preference Shares of ` 10 each, fully paid up. The company decided to redeem these preference shares at par by the issue of sufficient number of equity shares of ` 9 each fully paid up. You are required to pass necessary Journal Entries

1047 KALVATKAR SHIFA

- 1) Explain fair value method of valuation of equity shares.
- 2) Explain the conditions for buy back of equity shares.
- 3)

| Years | Profits/ (Loss) |
|-------|-----------------|
| 2018 | 60000 |
| 2019 | 68000 |
| 2020 | (15000) |
| 2021 | 47000 |

Value goodwill at 3 times the average profits of the past 4 years.
- 4) The following particulars are available in respect of Goodluck Limited: (a) Capital 450, 60% preference shares of ` 100 each fully paid and 4,500 equity shares of ` 10 each fully paid. (b) External liabilities: ` 7,500. (c) Reserves and Surplus ` 35,000. (d) The average expected profit (after taxation) earned by the company ` 8,500. (e) The normal profit earned on the market value of equity shares (full paid) of the same type of companies is 9%. (f) 10% of the profit after tax is transferred to reserves. Calculate the intrinsic value per equity share and value per equity share according to dividend yield basis. Assume that out of total assets, assets worth of ` 350 are fictitious.

1048 KAMBLI LAVANYA YASHWANT

- 1) Explain yield method of valuing shares.
- 2) Explain the legal provisions relating to buy back of equity shares.
- 3)

| Years | Profits/ (Loss) |
|-------|-----------------|
| 2018 | 40000 |
| 2019 | 38000 |
| 2020 | (10000) |
| 2021 | 27000 |

Value goodwill at 2.5 times the average profits of the past 4 years.
- 4) Following details are extracted from the records of a company: ` 2000 9% Preference Shares of ` 100 each 2,00,000 50,000 Equity shares of ` 10 each, ` 8 per share paid up 4,00,000 Expected Profit 2,18,000 Tax Rate 40% Transfer to general reserve 20% Normal rate of earning 15%. Find the yield value per share.

1049 KHADSE PRATHAM

- 1) Gross assets are ` 1,01,000, fictitious assets ` 350 are included in the gross assets. External liabilities are ` 7,500. 6% preference share capital is ` 45,000. Equity capital is 4,500 equity shares of ` 10 each fully paid. Average expected profit is ` 8,500. Transfer to reserves is 10% preference dividend is payable. NRR is 9%. The Net Asset Value Per share is
- 2) Capital employed is ` 50,000. Trading Profit amounted to ` 12,200, ` 15,000 and ` 2,000 loss for 2008, 2009 and 2010 respectively. Rate of interest is 8% and the rate of risk is 2%. Remuneration from alternative employment of the proprietor is ` 3,600 p.a. Amount of Goodwill at 3 years' purchase of Super Profit is
- 3) The net profit of the company after deducting all working charges and providing depreciation and taxation were as under:

| Year ending | Rs. in Lakhs |
|-------------|--------------|
| 31-03-2007 | 170 |
| 31-03-2008 | 192 |
| 31-03-2009 | 180 |
| 31-03-2010 | 200 |
| 31-03-2011 | 190 |

Find the value of goodwill under five years purchase of super profits.
- 4) Explain net assets method of valuation of equity shares.

1050 KHANDELWAL NISHTHA RITESH

- 1) The Net profit of a company before providing for taxation at 30% .for the past five years were Rs 80000 ,Rs 85000,Rs 92000 and Rs 100000.capital employed in the business is Rs 350000.NRR is 15%.Calculate Goodwill by Capitalization of Profit Method.
- 2) Types of Preference Shares
- 3) Explain any two Intangible Assets with examples.
- 4) Journal entries for redemption of Preference Shares

1056 MANRAL SANDEEP NANDAN

- 1) The balance sheet of M Ltd .contained the following items on 31 st March 2017.
7.5% preference share capital (shares of Rs. 100 each) Rs. 400000
Security Premium Account Rs. 18000
General Reserve Account Rs. 320000
The company redeemed the preference shares at a premium of 5 % on 1 st April 2017 . For the purpose of redemption it issued 20000 equity shares of Rs. 10 each.
Show Journal Entries in the books of the company to give effect to the above transaction.
- 2) Explain the legal provisions relating to buy back of equity shares.
- 3)

| Years | Profits |
|-------|---------|
| 2018 | 40000 |
| 2019 | 38000 |
| 2020 | 33000 |
| 2021 | 27000 |

Value goodwill at 3.5 times the average profits of the past 4 years.

- 4) Following details are extracted from the records of a company: ` 2000 9% Preference Shares of ` 100 each 2,00,000 50,000 Equity shares of ` 10 each, ` 8 per share paid up 4,00,000 Expected Profit 2,18,000 Tax Rate 40% Transfer to general reserve 20% Normal rate of earning 15%. Find the yield value per share.

1063 NAIK GAURAV

- Gross assets are ` 1,01,000, fictitious assets ` 350 are included in the gross assets. External liabilities are ` 7,500. 6% preference share capital is ` 45,000. Equity capital is 4,500 equity shares of ` 10 each fully paid. Average expected profit is ` 8,500. Transfer to reserves is 10% preference dividend is payable. NRR is 9%. The Net Asset Value Per share is
- Capital employed is ` 50,000. Trading Profit amounted to ` 12,200, ` 15,000 and ` 2,000 loss for 2008, 2009 and 2010 respectively. Rate of interest is 8% and the rate of risk is 2%. Remuneration from alternative employment of the proprietor is ` 3,600 p.a. Amount of Goodwill at 3 years' purchase of Super Profit is
- The net profit of the company after deducting all working charges and providing depreciation and taxation were as under:

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Find the value of goodwill under five years purchase of super profits.
- Explain net assets method of valuation of equity shares.

1069 PAL ARCHANA

- Conditions for Buy Back
- Discuss Fair value method of shares
- The balance sheet Yetharth LTD .showed the following items on 31 st March 2017:
7.5% Preference share capital (Rs. 100each) 1200000
Security Premium 90000
General Reserve 800000
The company redeemed the Preference shares at a premium of 10% on 1 st April 2017.For redemption 60000 Equity shares of Rs 10 each issued at a premium of 10%
Show journal entries in the books of the company.
- Distinguish between Divisible Profit & non divisible profit

1074 PATHARIYA MEGHA SUBODH

- Sources of Redemption of preference shares
- Write a short note on legal provision for redemption of preference shares
- Rohit Ltd decided to redeem 100000,10% Debentures of Rs 100 each at 10% premium on 31-3-2018 out of Profits .Pass necessary Journal entries.
- Distinguish between shares vs debenture.

1075 PATIL MANALI

- A ltd Company has 12000 redeemable preference shares of Rs 100 each fully paid . The company decides to redeem these shares at 10% premium
The company makes the following issues:
1)3000 equity shares of Rs. 100 each at 10% Premium
2)2000 debentures of Rs. 100 each
The issue was fully subscribed and allotment were made .The redemption was carried out.The company has sufficient Profit. Journalise the transactions.
- Explain Bonus Shares
- Write a short note on Sources of Redemption of Preference Shares
- List down the circumstances under which Goodwill is calculated

1084 SALVI NIKITA NARENDRA

- The Net profit of a company before providing for taxation at 30% .for the past five years were Rs 80000 ,Rs 85000,Rs 92000 and Rs 100000.capital employed in the business is Rs 350000.NRR is 15%.Calculate Goodwill by Capitalization of Profit Method.
- Sources of Redemption of preference shares
- Write a short note on legal provision for redemption of preference shares
- Write short note on Buy back of equity shares

1086 SAYYED ISHFA RIZVI

- Explain the meaning of Redemption of Preference Shares & legal provision under the section 55
- Distinguish between Buy back & Redemption of Pref shares.
- Distinguish between shares vs debenture
- Calls in arrears & Calls in advance

1087 SAYEED TAMANNA MEHBOOB

- How will you find the offer price of shares in case of buy back?
- Write short note on Sources of Redemption of Preference share
- Distinguish between buyback & redemption of debenture
- The Net profit of a company before providing for taxation at 30% .for the past five years were Rs 80000 ,Rs 85000,Rs 92000 and Rs 100000.capital employed in the business is Rs 350000.NRR is 15%.Calculate Goodwill by Capitalization of Profit Method.

1094 SHETTY RAKSHITH

- 1) Explain Intrinsic Value Method, Yield method and Fair Value Method with formulae
- 2) Sources of Redemption of preference shares
- 3) The balance sheet Yetharth LTD .showed the following items on 31 st March 2017:
9% Preference share capital (Rs. 100 each) 1200000
Security Premium 90000
General Reserve 800000
The company redeemed the Preference shares at a premium of 10%. For the purposes of redemption 60000 Equity shares of Rs 10 each issued at a discount of 10%
Show journal entries in the books of the company.
- 4) The net profit of the company after deducting all working charges and providing depreciation and taxation were as under:

| Year ending | Rs. in Lakhs |
|-------------|--------------|
| 31-03-2007 | 170 |
| 31-03-2008 | 190 |
| 31-03-2009 | 180 |
| 31-03-2010 | 210 |
| 31-03-2011 | 190 |

Find the value of goodwill under five years purchase of super profits.

1101 SONI SOURABH

- 1) Explain asset backing of valuation of equity shares.
- 2) What do you mean by redemption of preference shares? Explain the legal provisions.
- 3) Profits for the past three years are Rs.126000, Rs.145000 and Rs.161000. Value goodwill at 2.5 times the average profits of past 3 years.
- 4) G India Ltd. had 9,000 10% redeemable Preference Shares of ` 10 each, fully paid up. The company decided to redeem these preference shares at par by the issue of sufficient number of equity shares of ` 9 each fully paid up. You are required to pass necessary Journal Entries

1104 THAKUR MONIKA

- 1) Distinguish between buy back of shares and redemption of shares
- 2) Give the conditions for buy back of shares
- 3) Give the conditions for redemption of preference shares
- 4) Explain the different types of debentures

1112 YADAV ARJUN

- 1) The Net profit of a company after providing for taxation at 30% .for the past five years were Rs 80000 ,Rs 85000, Rs 92000 and Rs 100000. capital employed in the business is Rs 350000. NRR is 15%. Calculate Goodwill by Capitalization of Profit Method.
- 2) Gross assets are ` 1,01,000, fictitious assets ` 350 are included in the gross assets. External liabilities are ` 7,500. 6% preference share capital is ` 45,000. Equity capital is 4,500 equity shares of ` 10 each fully paid. Average expected profit is ` 8,500. Transfer to reserves is 10% preference dividend is payable. NRR is 9%. The Net Asset Value Per share is
- 3) Capital employed is ` 50,000. Trading Profit amounted to ` 12,200, ` 15,000 and ` 2,000 loss for 2008, 2009 and 2010 respectively. Rate of interest is 8% and the rate of risk is 2%. Remuneration from alternative employment of the proprietor is ` 3,600 p.a. Amount of Goodwill at 3 years' purchase of Super Profit is
- 4) Explain the classification of preference shares.

FOUNDATION COURSE - II

1043 JHA RINKI KUMARI

1. Explain the concepts of liberalization, privatization and globalization
2. Write in brief about Human Rights constituents with special reference to Fundamental Rights stated in the Constitution
3. List down the Causes of stress and conflict in individuals and society
4. Explain Maslow's theory of self-actualisation
5. Write short note on Sustainable development

1124 KHAN ARSHI

1. Write the features of rural characteristics as per regional Variation
2. Explore the disparities arising out of gender with special reference to violence against women.
3. Explain conflicts arising out of communalism.
4. Explain Fundamental Duties of the Indian Citizen.
5. Write a short notes on Linguistic conflicts in India.

QMB - II

1018 GOSWAMI VISHAKHA

1. Explain the terms trade discount, cash discount, profit, loss, commission and Del creder commission.
2. What are matrices and explain their type.
3. What is a ratio & explain its type.
4. The ages of Ajay and his younger brother Vijay are in the ratio 7:4. Six years ago, their ages were in the ratio 4:1. find their present ages.
5. Solve the following equation by using crammers rule $4x+2y-9z=12$ $3x+4y+z=5$ $x-3y+2z=8$.

1023 GIRI PRIYANSHU

1. What is a proportion explain its type and properties.
2. What is LLP explain with two example.
3. Distinguish between cash discount and trade discount.
4. Find x,y,z by using reduction method $2x+3y+5z=30$, $x+y+z=10$, $2x-5y+4z=20$
5. Three partners Ram, Shyam, and Ramesh invested RS 100000 , 80000 and 180000 respectively in a start up business .at the end of the year Ram received rs16000 as his share in the profit ,find the total profit also find Shyam and Ramesh share in the profit.

1050 KHANDELWAL NISHTHA

1. Find expected value
2. Difference between trade discount and cash discount.
3. What is a Simplex method in LPP with steps to solve problems?
4. x is jointly proportional to y & z. $x=40$ when $y=2$ & $z=10$.
 - a. Find constant of variation
 - b. Find equation of variation
 - c. Find x when $y= 8$ & $z= 4$
 - d. Find y when $x= 4$ & $z= 1$
 - e. Find z when $x= 24$ & $y= 3$

1087 SAYEED TAMANNA MEHBOOB

1. What is a brokerage, list price, sale Price.
2. Mr. Avinash Purchases a T.V. Set at rs 8100 after 10% trade discount and 10% cash discount. Find list price of a TV. set.
3. Find x,y,z by using Inversion method $x+3y+5z=30$, $x+2y+z=10$, $2x-5y+2z=20$
4. What is a proportion explain its type and properties.
5. What is LLP explain with two example.

1091 SHARMA HARSH

1. From the following equation find the value of X, Y, Z using crammers rule method $2x +y-z =3$, $x+y+2z=9$, $2x+5y+z=5$.
2. A merchant gave 10% trade discount and 10% cash discount and sold a T.V. for a net price of rs. 8100. find list price of T.V.?
3. A person bought 2 purses at rs500 each. He sold one at 10% profit and other 2% loss. Find his total percentage of profit and loss?
4. Explain the different types of matrices
5. Explain brokerage, list price and invoice price

1101 SONI SOURABH

1. Solve the following system of linear equations by method of inversion
2. A company manufactures two types of ornaments A & B which requires gold & silver. One unit of A requires 2 gm of silver & 1 gm of gold .One unit of B requires 1gm of silver & 2 gm of gold Company must utilized maximum 90 gm of silver but minimum 60 gm of gold .Profit per unit of A & B is Rs. 400 & Rs. 500 respectively.
3. Formulate the following problem as LPP & solve by graphical method
4. Write a short note on :Various Types of matrices
5. Solve the following LPP by graphical method:

If $A = \begin{bmatrix} 2 & -1 & 1 \\ -2 & 3 & -2 \\ -4 & 4 & -3 \end{bmatrix}$ then prove that $A^2 - A$ is a null matrix.

1110 WARIS ABBAS

1. Write a short note on :Singular Matrix , Non-Singular Matrix & Inverse of a Matrix
2. Solve the following LPP by graphical method
Min $z = 3x + 5y$ subject to $x+2y \leq 2000$, $x + y \geq 1500$, $x, y \geq 0$
3. Write a short note on : Type I Error & Type II Error
4. Write a short note on :Different methods of estimating GDP

5. If $A = \begin{bmatrix} 1 & 0 & 3 \\ 2 & 1 & -1 \end{bmatrix}$ $B = \begin{bmatrix} 1 & 4 \\ -3 & 2 \\ 0 & 1 \end{bmatrix}$ & $C = \begin{bmatrix} 0 & 1 \\ 1 & 3 \\ 1 & 0 \end{bmatrix}$ are

given matrices then determine $A(B+C)$ & $A(B-C) = AB - AC$

1124 KHAN ARSHI

1. Write a short note on: Systematic & unsystematic Risk
2. Write a short note on: Null Hypothesis & Alternative Hypothesis
3. The probability distribution of returns of a company is shown below. Find the expected returns, total risk & the standard deviation of returns

| Return in % | 1 | 2 | 3 | 4 | 5 | 6 | 7 |
|-------------|------|-----|------|------|-----|-----|-----|
| Probability | 0.10 | 0.2 | 0.26 | 0.04 | 0.1 | 0.1 | 0.2 |

4. Two types of vitamins A & B are found in food packets P1 & P2. One packet of P1 contains 3 gm of A & 4 gm of B. One packet of P2 contains 1 gm of A & 3 gm of B. The minimum daily requirement of A & B are 30 gm & 60 gm respectively. The cost of one packet of P1 is Rs.20 & one packet of P2 is Rs.30. Formulate the given problem as LPP & solve by graphical method
5. Write a short note on :Decision criteria & critical region for one tail test

NOTE - Students who has paid ATKT fees for internal component but has not been allotted questions is requested to contact Mr. Nirav Tawadia on or before 12th September, 2023 by mailing on