

# **NOTICE**

DATE - 26/04/2025.

# ATKT Internal Examination APRIL, 2025 BIM (SEM. I- NEP 2020)

## **INSTRUCTIONS FOR THE STUDENTS HAVING ATKT IN INTERNALS:**

- 1. Date of Submission of the Projects- Friday 2nd May, 2025 at 10.00 am
- 2. Reporting time for students: at least 10 minutes before the mentioned time.
- 3. Venue: Class Room T3
- 4. Reporting time for students at least 10 minutes before the mentioned time.
- 5. Students have to be present in person for the submission.
- 6. Internal project topics are also uploaded on the college website.
- 7. 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.
- 8. 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.
- 9. On the date of submission there will be a viva voce on the given questions/topics.
- 10. If the student fails to present himself on the given date and time he will be marked ABSENT for the said subject.
- 11. Any Submissions after the above mentioned date and time will not be accepted and entertained under any circumstances.
- 12. 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. Mansi Bafna on or before 22nd August, 2024 by mailing to mansi.b@dalmialionscollege.ac.in or bimsfcdept@dalmialionscollege.ac.in

| SR.<br>NO | SUBJECT                   | ROLL<br>NO | NAME OF THE STUDENT          |
|-----------|---------------------------|------------|------------------------------|
| 1         | Applications of Ms. Excel | 113        | JAIN BHUMI YASHVANT          |
|           |                           | 105        | CHAURASIYA AKASH LALMAN      |
|           | Communication Skills In   | 155        | MAURYA SHUBHANGI SUBHASH     |
| 2         | BAE                       | 135        | RAUT SHRAVANI SACHIN         |
|           | DAI                       | 141        | SHAIKH ASIF NAUSHAD          |
|           |                           | 149        | SHINDE SHUBHAM VINOD         |
|           |                           | 113        | JAIN BHUMI YASHVANT          |
| 3         | Financial Accounting      | 115        | JEENA TANISHA DHIRAJ         |
|           |                           | 145        | SHAIKH REHAN SHABBIR         |
|           | Financial Mathematics     | 113        | JAIN BHUMI YASHVANT          |
|           |                           | 115        | SHAIKH REHAN SHABBIR         |
|           |                           | 126        | PAMAK SOAHAM MUKESH          |
| 4         |                           | 130        | PARMAR KRISHA PRAFUL         |
| 4         |                           | 141        | SHAIKH ASIF NAUSHAD          |
|           |                           | 145        | SHAIKH REHAN SHABBIR         |
|           |                           | 155        | MAURYA SHUBHANGI SUBHASH     |
|           |                           | 318        | SHARMA ABHISHEK LALATAPRASAD |
|           |                           | 113        | JAIN BHUMI YASHVANT          |
| 5         | Indian Constitution       | 130        | PARMAR KRISHA PRAFUL         |
|           |                           | 141        | SHAIKH ASIF NAUSHAD          |
| 6         | Indian Knowledge System   | 130        | PARMAR KRISHA PRAFUL         |
| 0         | Indian Knowledge System   | 141        | SHAIKH ASIF NAUSHAD          |
|           |                           | 113        | JAIN BHUMI YASHVANT          |
| 7         | Co-curricular Activities  | 130        | PARMAR KRISHA PRAFUL         |
|           |                           | 145        | SHAIKH REHAN SHABBIR         |

# Subject wise list of students Semester I ATKT – 2025:

| 8 | Introduction to Environment | 115 | SHAIKH REHAN SHABBIR     |
|---|-----------------------------|-----|--------------------------|
|   |                             | 126 | PAMAK SOAHAM MUKESH      |
|   |                             | 155 | MAURYA SHUBHANGI SUBHASH |
| 9 | Personal Financial Planning | 121 | MAHADIK VEDIKA SANTOSH   |

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

| SUBJECT                     | FACULTY                 |
|-----------------------------|-------------------------|
| Applications of Ms. Excel   | Dr Sheetal Suvarna      |
| Communication Skills In BAF | Dr Sheetal Suvarna      |
| Financial Accounting        | Ms Mansi Bafna          |
| Financial Mathematics       | Ms Akshata Pawar        |
| Indian Constitution         | Dr Malvika Khajuriya    |
| Indian Knowledge System     | Ms. Mona Sheth          |
| Co-curricular Activities    | Ms Shivapriya Acharya   |
| Introduction to Environment | Ms Shalini Chauhan      |
| Personal Financial Planning | Mr Vishwajeet Chaudhari |

| MBafre          | Ør                    | SMaitas               | La Junio                |
|-----------------|-----------------------|-----------------------|-------------------------|
| Ms. Mansi Bafna | CA. Mr Durgesh Kenkre | Ms. Subhashini Naikar | Prof.(Dr). D.N.Ganjewar |
| Co-ordinator    | Exam Convener         | (Vice-Principal, SFC) | Principal               |

DI/N-STD/GEN/00

# <u>ATKT Internal Examination April , 2025</u> <u>BIM (SEM I)</u>

### QUESTIONS FOR THE STUDENTS HAVING ATKT IN INTERNALS

### Communication Skills (Each student has to answer any 5 questions)

- 1. Explain in brief various types of communication?
- 2. What is communication and explain the objectives of communication?
- 3. Explain in brief the elements of effective communication
- 4. Define Communication and explain what is the process of communication
- 5. What are the parts of business letter?
- 6. Explain in brief Letter of Appointment?
- 7. What are the barriers to communication?
- 8. What is Letter of appreciation?
- 9. Explain in brief Letter of Resignation?
- 10. What is Job Application letter?
- 11. What is horizontal Communication?
- 12. Define Social Media and its Importance in business communication?
- 13. Define Communication and the need for communication in business?
- 14. Explain Downward Communication
- 15. What is verbal Communication in business?
- 16. Define Upward communication?
- 17. What does it means to responding to official emails in business?
- 18. What is Grapevine communication?
- 19. Write a note on Email?
- 20. What is the impact of technology in communication ?
- 21. Explain the principles of communication?
- 22. Role of effective communication in business
- 23. Explain the features of communication in business?
- 24. What is the process of communication

### Introduction to Environment (Each student has to answer any 5 questions)

- 1. The remedies to reduce pollution.
- 2. Discuss Explain the biotic, abiotic and cultural component of the environment in detail.
- 3. Write a note on the food pyramid.
- 4. Enumerate briefly about the importance of sustainable development.
- 5. Explain appiko movement in detail.
- 6. Write a note on silent valley movement.
- 7. Explain the importance of green marketing.
- 8. Enumerate briefly about the factors affecting exploitation of natural resources.
- 9. Discuss the human impact on the water cycle.
- 10. Explain chipko andolan in detail.
- 11. Explain the advantages of waste management.
- 12. Explain 4Ps of green marketing in detail.
- 13. Discuss the causes of pollution.

## Financial Accounting (Each student has to answer any 5 questions)

Q1.

3)Miss Bhagawati entered into the following transactions of purchase and sales of **12 percent** Debentures of **Rs 100** each of Mansi Ltd. **Interest is payable on 30<sup>th</sup> June and 31<sup>st</sup> December every year.** Transactions are as under:

| Date      | No of      | Terms                                    |
|-----------|------------|--|
|           | Debentures |  |
| 1-04-2012 | 800        | Opening balance at the cost of Rs 76,000 |
| 1-06-2012 | 300        | Sold at Rs 105 each cum-interest         |
| 1-09-2012 | 700        | Purchased at Rs 98 each Ex-Interest      |
| 1-12-2012 | 400        | Purchased at Rs 108 each Cum-Interest    |
| 1-02-2013 | 900        | Sold at Rs 97 each Ex-Interest           |
|           |            |  |

Prepare Investment Account of 12 percent debentures in the books of Bhagawati for the year ended **31<sup>st</sup> March**, **2013**. The market value on **31<sup>st</sup>** March, 2013 was Rs **67,500** of the said investment. Apply As-13.

Q2. Tinka Ltd issued 1,60,000 10% preference shares of Rs. 10/- each in 2013. These shares are redeemable on 31st March, 2023 at par. On this date, company's profit and loss account showed a credit balance of Rs. 8,00,000/- and General reserve Rs. 12,00,000/-. The shares were duly redeemed. Pass journal entries.

Q3. Luca Ltd. has 4,000 - 6% Preference Share Capital of Rs. 100/- each fully paid up which is due for redemption. The company has the following accompaniments:

|    | -          | _        | - |            | - 1 |
|----|------------|----------|---|------------|-----|
| a. | Profit and | Loss a/c |   | Rs. 20,000 |     |

| b. | General Reserves | Rs. 3,80,000 |
|----|------------------|--------------|

- c. Securities Premium Rs. 20,000
- d. Bank Balance Rs. 3,60,000

The company decided to redeem its preference shares at par. Pass journal entries with necessary comments.

Q4. On April 5th, XYZ Ltd. made the following transactions. Prepare journal entries for each:

- April 5th: Purchased goods worth ₹50,000 on credit from ABC Ltd.
- April 6th: Paid rent ₹10,000 in cash.
- April 8th: Owner introduced additional capital of ₹1,00,000 in the business.
- April 10th: Sold goods worth ₹40,000 to PQR Ltd. on credit.
- April 12th: Paid ₹25,000 to ABC Ltd. for goods purchased on credit.
- April 15th: Paid salaries ₹15,000 by cheque.
- April 18th: Purchased furniture worth ₹30,000 and paid through a bank loan.
- April 20th: Received ₹20,000 from PQR Ltd. for goods sold on credit.
- April 25th: Paid electricity bill ₹5,000 by cash.

Q5. Record the following transactions in the Purchase Book of XYZ Ltd. for April 2024:

- April 3rd: Purchased goods from DEF Ltd. for ₹60,000 (Trade discount of 5%).
- April 6th: Purchased goods from UVW Ltd. for ₹35,000 (Trade discount of 2%).
- April 10th: Purchased office supplies from GHI Ltd. worth ₹15,000.
- April 12th: Bought goods from LMN Ltd. for ₹40,000.
- April 18th: Bought machinery from JKL Ltd. for ₹75,000.
- April 22nd: Purchased raw materials from XYZ Traders for ₹1,20,000 (Trade discount of 7%)

Q6. Record the following sales transactions in the Sales Book of ABC Ltd. for May 2024:

- May 5th: Sold goods to MNP Ltd. for ₹80,000 (Trade discount of 10%).
- May 8th: Sold goods to XYZ Ltd. for ₹50,000 (Trade discount of 5%).
- May 15th: Sold furniture to OPQ Ltd. for ₹20,000.
- May 18th: Sold goods to DEF Ltd. for ₹70,000 (No discount).

- May 25th: Sold goods to XYZ Ltd. for ₹45,000 (No discount). •
- May 30th: Sold goods to UVW Ltd. for ₹90,000 (Trade discount of 8%). •

Q7. Solve the following

Compile three column cash book of Mr.Sundar from the following transactions:

Sundar started business with cash Rs.2,00,000

2002

Aug 1

Deposited into Bank Rs.50,000.  $\mathbf{Z}$ Cash purchases Rs.5,000. 4 Purchases by cheque Rs.6,000. 5Goods sold to Nathan on credit Rs. 5,000. 6 Received cheque from Mano Rs.490, Discount allowed 8 Rs.10. 10Paid carriage Rs.1,000. 12Withdrew from Bank for office use Rs.10,000. Paid to Sundari Rs.4,960, Discount allowed by her 15Rs.40. Received a cheque for Rs.4950 from Nathan in full 20settlement of his account, which is deposited into Bank.

#### Q8. Solve the following

Enter the following transactions in three column cash book of Mr.Muthu and balance the same.

#### 2003

| Aug | 1  | Cash in hand Rs.75,000<br>Cash at bank Rs.40,000                    |
|-----|----|---|
|     | 4  | Paid into bank Rs.20,000.   |
|     | 6  | Purchased machinery by cheque Rs.10,000                             |
|     | 8  | Received from Mohan Rs.2,560<br>Discount allowed Rs. 40.            |
|     | 10 | Paid to Somu by cheque Rs.3,970 in full se<br>his account Rs.4,000. |
|     | 11 | Withdrew cash from Bank for personal use                            |
|     | 15 | Received cheque from Balan Rs.4,900.                                |

C--- t--- t---- t---- 75,000

19Balan's cheque deposited into Bank

Allowed him discount Rs.100.

Anandan our customer has paid directly into our bank  $\mathbf{24}$ account Rs.10,000.

ttlement of

Rs.5,000.

27Rent paid by cheque Rs.3,000.

# Q9.

Q. Enter the following transactions in the Purchase Book, Sales Book, Purchase Returns Book and Sales Returns Book of Abhishek and Co. for the month of January, 2011. 2011 Jan.

- Purchased goods from Raj Traders Rs 16,400 at 10% trade discount.
- 3 Preeti enterprises invoiced goods to us Rs 17,250.
- 6 Sold goods to Vinita Stores Rs 19,000 at 5% trade discount.
- 9 Mitesh Associates invoiced goods to us Rs 17,000 at 2<sup>1/2</sup> trade discount.
- 12 Returned goods to Raj traders Rs 1,650 (Net).
- 15 Vinita Traders returned goods to us as they were damaged in transit Rs 4,000 (Gross).
- Returned goods to Preeti Rs 2,550
- 23 Placed an order with Novel Stores for goods worth Rs 29,000.
- 25 Novel Stores supplied goods worth Rs 19,000 only
- 26 Returned goods to Novel Stores as they were not as per specification Rs 2,550.
- 28 Sold goods to Deepika Rs 24,000 at 8% trade discount.
- 30 Deepika returned goods of Rs 4,000 (Gross).

# Q. 10

Prepare Proper subsidiary books and post them to the ledger from the following transactions for the month of February 2011

|    |  | Rs    |
|----|--|-------|
| 1  | Goods sold to Sachin                         | 5,000 |
| 4  | Purchase from Kushal Traders                 | 2,480 |
| 6  | Sold goods to Manish Traders                 | 2,100 |
| 7  | Sachin returned goods                        | 600   |
| 8  | Return to Kushal Traders                     | 280   |
| 10 | Sold to Mukesh                               | 3,300 |
| 14 | Purchased from Kunal Traders                 | 5,200 |
| 15 | Furniture purchased from Tarun               | 3,200 |
| 17 | Bought from Naresh                           | 4,060 |
| 20 | Return to Kunal Traders                      | 200   |
| 22 | Return to inwards from Mukesh                | 250   |
| 24 | purchased goods from Kirit&Co for list price | 5,700 |
|    | less 10% trade discount                      |       |
| 25 | Sold to Shri Chand goods                     | 6,600 |
|    | less5%trade discount                         |       |
| 26 | Sold to Ramesh Brothers                      | 4,000 |
| 28 | Return outwards to Kirit&Co                  |       |
|    | less%trade discount                          | 1,000 |
| 28 | Ramesh Brothers returned goods               | 500   |
|    |  |       |

11. From the following details, prepare Manufacturing, Trading and Profit & Loss Account, and Profit & Loss Appropriation Account for the year ending 31st March, 2016 and a Balance Sheet as on 31st March, 2016.

| Particulars      | Dr.      | Cr. |
|------------------|----------|-----|
|                  | ₹        | ₹   |
| Opening Stock:   |          |     |
| Raw Materials    | 60,000   |     |
| Work-in-Progress | 5,000    |     |
| Finished Goods   | 20,000   |     |
| Purchases:       |          |     |
| Raw Materials    | 2,10,000 |     |

| Finished Goods             | 10,000   |          |
|----------------------------|----------|----------|
| Cash                       | 2,000    |          |
| Factory Rent               | 12,000   |          |
| Office Rent, Rates & Taxes | 3,000    |          |
| Factory Salary             | 18,000   |          |
| Office Salary              | 13,100   |          |
| Debtors                    | 78,000   |          |
| Creditors                  |          | 56,000   |
| Sales                      |          | 4,00,000 |
| Selling Expenses           | 17,000   |          |
| Interest                   | 4,000    |          |
| Discount allowed           | 3,000    |          |
| Discount received          |          | 1,100    |
| Capital Wages              |          | 98,000   |
|                            | 50,000   |          |
| Machinery                  | 45,000   |          |
| Furniture                  | 5,000    |          |
|                            | 5,55,100 | 5,55,100 |

a) Provide 10% Depreciation on Machinery and Furniture.

- b) Closing Stock : Raw Materials Rs. 50,000 . Work –in-Progress Rs. 10,000. Finished Goods Rs. 35,000.
- c) Salary outstanding as on 31st March , 2016: Factory Rs. 2,000 . Office Rs. 1,000.
  Outstanding Factory Rent Rs. 1,000.

12. From the following extracts, prepare Manufacturing Account, Trading Account, Profit & Loss Account for the year ended 31st March, 2016 and the Balance Sheet as on 31st March 2016.

| Particulars                | ₹        | Particulars            | Rs.    |
|----------------------------|----------|------------------------|--------|
| Stock (At 1.4.2015)        |          | Machinery (WDV         |        |
| Raw Materials              | 13,000   | on 31.3.2016)          | 17,000 |
| Work-in-Progress           | 8,000    | Drawings               | 3,000  |
| Finished Goods             | 19,000   | Advertisement          | 1,800  |
| Capital A/c (including ₹   |          | Debtors                | 18,500 |
| 15,000 introduced on       |          | Office Salaries        | 3,820  |
| 1.4.2015)                  | 90,000   | Factory Insurance      | 1,070  |
| Balance with Bank          | 13,500   |                        |        |
| Cash in hand               | 810      | Lighting (including ₹  | 1,960  |
| Sales                      | 1,12,000 | Carriage Outward       | 550    |
| Purchase of Raw Material   | 79,000   | Interest received      | 450    |
| Return Inward              | 390      | Depreciation:          |        |
| Wages                      | 8,500    | Machinery              | 3,000  |
| Direct Expenses            | 2,300    | Office Furniture       | 800    |
| Rent ( including ₹ 2,500/- |          | Office Furniture (     |        |
| for Factory Premises )     | 3,000    | W.D.V 51.5.2010)       | 7,200  |
| Power Expenses             | 1,200    | Miscellaneous Expenses | 300    |
| Investments                | 10,100   | Discount received      | 600    |
|                            |          | Bad Debt               | 250    |
|                            |          | Creditors              | 300    |
|                            |          |                        | 16,000 |

- 1. Additional Bad debts of Rs. 500 are to be written off and R.D.D to be charged on debtors at 5%.
- 2. Machinery and Office Furniture are depreciated at wrong rates. Actual depreciation rate should be Machinery at the rate of 10% and Office Furniture at the rate of 15%.

Closing Stocks are: Raw Materials ₹ 2,000. W.I.P. ₹ 16,330. Finished Goods ₹ 28,000.

Q. 13. Gwalior India Ltd. had 9,000 10% redeemable Preference Shares of Rs.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 Rs.9 each fully paid up. You are required to pass necessary Journal Entries including cash transactions in the books of the company.

## Indian Constitution (Each student has to answer any 5 questions)

- 1. What is PIL and how does it impact the Indian legal system?.
- 2. Elaborate the jurisdiction of the Supreme Court of India.
- 3. Discuss with examples where judicial activism has led to significant social change.
- 4. Explain the term Constitution and its significance
- 5. What are the major challenges faced by the government in implementing the Directive Principles?
- 6. Elaborate the key features of the Constitution of India.
- 7. Explain the various remedies available for the violation of fundamental rights under Article 32 of the Indian Constitution.
- 8. Discuss the functions of the Supreme Court of India.
- 9. Can you name a few landmark cases which have shaped the interpretation of Article 21?
- 10. What is the basic structure doctrine? Explain with the landmark case law.
- 11. Explain Articles on the right to freedom in detail .
- 12. Discuss the key functions and powers of High Courts.
- 13. What do you mean by Judicial activism.
- 14. Discuss the jurisdiction of High court of India .
- 15. Explain article 19 and it's relevance in democracy.

### Financial Mathematics (Each student has to answer any 5 questions)

Find the simple interest of the amount Rs.2300 at 12% p.a. after 3 years. Also find the amount accumulated after 3 years.

Calculate the quartile deviation and its coefficient from the following.

| х | 43 | 44 | 45 | 46 | 47 | 48 | 49 |
|---|----|----|----|----|----|----|----|
| f | 10 | 18 | 21 | 18 | 15 | 10 | 8  |

A sum of Rs.6,400 accumulated to Rs.9,280 in a certain period. If the rate of simple interest is 9%. Find the period.

Find the semi interquartile range for the following data :

| Daily<br>wages<br>₹   | 0-10 | 10-20 | 20-30 | 30-40 | 40-50 | 50-60 | 60-70 | 70-80 |
|-----------------------|------|-------|-------|-------|-------|-------|-------|-------|
| No. of<br>worker<br>s | 10   | 17    | 26    | 30    | 33    | 25    | 12    | 9     |

Aisha kept a certain amount in a bank giving simple interest at 8% p.a. for 5 years and got a simple interest of Rs.10,000. Her friend also kept an identical amount in another bank for 3 years, giving simple interest at 11% p.a.. Calculate the interest Aisha's friend will get?

Mr. Ramesh borrowed Rs. 80,000 from his friend partly at 10% p.a. and the remaining at 12% p.a.. After 4 years,

he returned the money and paid a simple interest of Rs.34,400.

Find the amount he borrowed at each rate.

A principal amounts to Rs.10000 after 3 years and to Rs. 12500 after 5 years. Find the Principal and the rate of simple interest.

Mr. Pritam invested Rs.15000 at 9% p.a., Rs. 7000 at 6% p.a., and Rs. 2000 at 4% p.a.. Find the average rate of SI on his investment:

A sum of money amounts to Rs. 51,920 in 2 years and to Rs. 59,840 in 4 years at a certain rate of simple interest. Find the sum and the rate.

Calculate quartile deviation and its relative measures for the following :

| Values    | 20-29 | 30-39 | 40-49 | 50-59 | 60-69 | 70-79 |
|-----------|-------|-------|-------|-------|-------|-------|
| Frequency | 306   | 182   | 144   | 96    | 42    | 34    |

- 1. Mr. Bitta borrowed Rs.12000 for 4 years at a compound interest rate of 8% p.a.. How much does he have to pay at the end of 4 years?
- 2. The simple interest and compound interest for 2 years on the same principal at the same rate are Rs 7,200 and Rs. 7,632 respectively. Find the principal and the rate of interest.
- 3. The difference between simple and compound interest on a certain principal for 2 years at 6% rate of interest p.a. is Rs.13.50. find the principal.
- 4. Find the combined mean and standard deviation and also find the C.V. of each group.

|             | Group I | Group II |
|-------------|---------|----------|
| Number      | 70      | 90       |
| Mean Weight | 75      | 82       |
| S.D.        | 4       | 7        |

- 5. Find the final amount of Rs.10,000 at 10% in 1 years compounded (i) half yearly, (ii) Quarterly.
- 6. The difference between simple and compound interest on a certain sum for 2 years is 76.8. The simple interest on the same principal for 4 years is Rs. 3840. Find the principal and the rate of interest.
- 7. Find the quartile Deviation and coefficient of quartile deviation.

| No. of cracks      | 4-8 | 8-12 | 12-16 | 16-20 | 20-24 |
|--------------------|-----|------|-------|-------|-------|
| No of road segment | 2   | 5    | 11    | 13    | 9     |

- 8. Find the maturity amount of 1 year fixed deposit of Rs.1,00,000 at 8% p.a.if the interest is compounded (a)Annually (b) half yearly (c) quarterly.
- 9. Find the effective rate of interest if the nominal rate is 8% p.a. and the interest is compounded (a) semiannually, (b) quarterly.
- 10. Calculate the standard deviation of the combined group of 300 items from the following data and also find the C.V. of each group.

|              | Group I | Group II |
|--------------|---------|----------|
| No. of items | 100     | 200      |
| A.M.         | 83      | 87       |
| S.D.         | 16      | 9        |

11. A loan of Rs.50000 is to be returned in 3 equal monthly installments, the rate of interest being 24% p.a.Find the EMI using the reducing balance method.

Find the interest and principal repayment components of the EMI for each month.

- 12. A personal computer is priced at Rs.60000. A dealer offers an installment plan in which the customer pays Rs.20000 cash down and pays four equal installments at the end of each quarter for 4 quarters at 16% p.a. compounded quarterly. Find the amount of each installment.
- 13. Following data gives the number of days 100 patients stayed in the hospital after an operation.

| Stay in days | 1-3 | 4-6 | 7-9 | 10-12 | 13-15 |
|--------------|-----|-----|-----|-------|-------|
| No. of       | 5   | 20  | 40  | 25    | 10    |

- 14. An annuity of Rs. 3000/- is to be paid at the end of each quarter for 3 quarters at 12% p.a. compounded quarterly. What is the present value of the annuity?
- 15. For an immediate annuity to be paid for 4 years with interest compounded a 9% p.a. The present value is Rs.10000. Find the accumulated value after 4 years. Find the annuity payment for each year.
- 16. A company has to pay for the redemption of debentures of Rs. 20,00,000 at the end of 4 years. What amount should it set aside at the end of every year for investing at a compound interest of 10% p.a.?
- 17. After investing Rs. 20000 at the end of each year for some year, Ms. Reena received an accumulated amount of Rs.65,562. If the interest was compounded at 9% p.a.. Find the number of years.
- 18. Find the present value of an immediate annuity of Rs.20000 p.a. for 3 years at 14% p.a. compounded annually.
- 19. The following data gives marks distribution of 70 students :

| Marks              | 30-40 | 40-50 | 50-60 | 60-70 | 70-80 | 80-90 |
|--------------------|-------|-------|-------|-------|-------|-------|
| No. of<br>Students | 3     | 15    | 27    | 15    | 8     | 2     |

Find the mean deviation from mode and coefficient of M.D.

20. A loan of Rs. 80000 is to be repaid in 4 equal monthly installments starting from the end of first month.

The rate of interest is 9% p.a. compounded monthly. Find the amount of each installment.

### Indian Knowledge System (Each student has to answer any 5 questions)

- 1) Write meaning of Indian knowledge system
- 2) What is the need of revisiting ancient Indian Traditions?
- 3) Write a note on Pathshala Education.
- 4) Write a note on Home Education
- 5) Write a note on the water management system at kanheri.
- 6) Write a note on importance of yoga and sports in human life
- 7) Write a note on gurukul education.
- 8) Write the negative impact of MEP.
- 9) Explain role in the economy in Trade & Commerce.
- 10) Explain Problems of Trade & Commerce in India.

### Personal Financial Planning (Each student has to answer any 5 questions)

- 1. What is the need of Personal Financial Planning?
- 2. State the importance of Personal Financial Planning?
- 3. Write any eight investment option?

- 4. What are the sources of income as per IT Act?
- 5. Explain in detail how pension person can plan for old age investment?

### **Co-Curricular Act (Each student has to answer any 5 questions)**

- 1. Discuss the historical evolution of performing arts in Indian Culture.
- 2. Explain the Cultural significance of Performing Arts in fostering society values.
- 3. What are the basic elements of performing arts and how to interact to create a performance?
- 4. Describe the contribution of Natya Shastra to the development performing arts in India?
- 5. Analyze the role of performing arts in documenting historical events and traditions.
- 6. Compare and Contrast performing arts with visual arts.
- 7. How have performing arts evolved in modern times with the advent technology.
- 8. Explain the significance of dance as a form of performing art in Indian Culture.
- 9. Explain the steps involved in developing a character for a role.
- 10. Discuss the significance of emotional exploration in performing arts?
- 11. Describe the fundamentals of voice modulation and its impact on performance
- 12. What is the importance of improvisation in the creative process of performing arts.

### **Application of Ms. Excel (Each student has to answer any 5 questions)**

- 1. What is the use of Data Validation in Excel? Give one example related to business data entry.
- 2. How can Pivot Tables help in analyzing monthly sales data?
- 3. Mention any two key financial ratios that can be calculated using Excel.
- 4. How does conditional formatting improve financial reporting in Excel?
- 5. What steps are involved in protecting a worksheet with a password in Excel?