

**SAMPLE OF  
QUESTION  
PAPERS  
OF INTERNAL  
EXAMINATION**

I<sup>st</sup> INTERNAL EXAMINATION NOVEMBER 2023

**B. Sc -V SEMESTER**

PHYSICAL CHEMISTRY

Code: Paper-8

Time: 3.0 Hours

M.M: (15X5=75)

Note: Attempt only 5 questions only.

- Q.1 State and explain Lambert's law and Beer's Law governing absorption of Light by a sample. What are the limitations of Beer's Law?
- Q.2 What do you understand by 'quantum yield' or 'quantum efficiency' of a photochemical reaction? How it is determined experimentally?
- Q.3 What do you understand by spin multiplicity, singlet state and triplet states. Explain the phenomenon of fluorescence and phosphorescence using Jablonski diagram?
- Q.4 Explain the term "photosensitization" with atleast two examples with their mechanism.
- Q.5 Draw Jablonski diagram. Depict the non-radiative and radiative transitions, internal conversion and intersystem crossing. What should be the the type of multiplicity of fluorescence and phosphorescence?
- Q.6 A certain system absorbs  $3 \times 10^{18}$  quanta of light per second. On radiation for 20 minutes. 0.003 mole of reactant was found to have reacted. Calculate the quantum yield for the process (Avagadro number =  $6.022 \times 10^{23}$ ).

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LUCKNOW PUBLIC COLLEGE OF PROFESSIONAL  
STUDIES VINAMRA KHAND, GOMTI NAGAR,  
LUCKNOW

1<sup>st</sup> INTERNAL EXAMINATION OCTOBER 2023

B.Sc. 3<sup>rd</sup> Year 5<sup>th</sup> Semester

PAPER NAME: ANALYSIS

Time: 3 Hours

M.M: (15X5=75)

Note: Attempt any five questions only.

1. Define analytic function and prove Cauchy Riemann equation.
2. State and prove sufficient condition for analytic function.
3. Find the locus of complex number  $Z$ , If  $\arg(z) = \theta$
4. If  $\mu = \log(x^2 + y^2)$  then prove that  $\mu$  is harmonic function and also find analytic  $fz$
5. State and prove Cauchy Riemann equation in polar form.
6. State and prove Cauchy intergral fundamental theorem
7. State and prove Cauchy intergral formula
8. Find where  $C$  is circle  $|z| = 2$
9. State and prove Morera 's theorem
10. State and prove  $n^{\text{th}}$  derivative of Cauchy intergral formula and also find where  $C$  is circle such that  $|z| = 2$

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Time: 3 Hours

M.M: (15X5=75)

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11. Define analytic function and prove Cauchy Riemann equation.
12. State and prove sufficient condition for analytic function.
13. Find the locus of complex number  $Z$ , If  $\arg(z) = \theta$
14. If  $\mu = \log(x^2 + y^2)$  then prove that  $\mu$  is harmonic function and also find analytic  $fz$
15. State and prove Cauchy Riemann equation in polar form.
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1<sup>st</sup> INTERNAL EXAMINATION OCTOBER 2023

B.Sc. 3<sup>rd</sup> Year 5<sup>th</sup> Semester

PAPER NAME: NUMERICAL ANALYSIS

Time: 3 Hours

M.M: (15X5=75)

Note: Attempt any five questions only.

1. Attempt all parts:

- Define rate of convergence of an iterative method.
- Prove that  $\Delta + \nabla = (\Delta / \nabla) + (\nabla / \Delta)$ .

2.

- Define divided difference. Find relation between divided difference and forward difference.
- State and prove Newton's forward formula.

3) Find a root of the equation  $x^3 - 4x - 9 = 0$  by Bisection method.

4) Find a real root of the equation  $3x + \sin x - e^x = 0$  by method of False position.

5) Evaluate  $\sqrt{12}$  by Newton's iterative method.

6) The population of a town is given below:

Year x:	1891	1901	1911	1921
	1931			
Population y:	46	66	81	93
	101			

(In thousands)

Estimate the population for the year 1895.

7) The population of a town is as follows:

Year x:	1921	1931	1941	1951
	1961	1971		
Population y:	20	24	29	36
	46	51		

(In thousands)

Estimate the population in 1955.

8) State and prove Simpson 1/3<sup>rd</sup> formula.

9) Using Lagrange's interpolation formula, find y (10) from the following table:

x:	5	6	9	11
y:	12	13	14	16.

10) Using Newton's divided difference formula, find a polynomial function satisfying the following data:

x:	-4	-1	0	2	5
f(x):	1245	33	5	9	1335.

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1<sup>st</sup> INTERNAL EXAMINATION OCTOBER 2023

BAJMC - V SEMESTER

PAPER NAME: EXPOSURE TO NEW MEDIA  
INDUSTRIES

Code: Major 1- Paper 11

Time: 3 Hours

M.M: (14X5=70)

Note: Attempt any five questions only.

Q.1 What is the role of Media in Society?

Q2. What is new media? Discuss about role of new media in communication with examples.

Q3. Write a Blog Post on any topic of your own?

Q4. What is Website, Explain?

Q5. Give a brief explanation of Social Media with Examples?

Q6. List some Careers in Animation Industry?

Q7. What is Animation explain in detail with its types?

Q8. What is the difference between New Media and Traditional Media?

Q9. What are the common characteristics of segments of the media industry?

Q10. What is the significance of Social Media?

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1<sup>st</sup> INTERNAL EXAMINATION OCTOBER 2023

BA-JMC-SEMESTER V

PAPER NAME: Economics of New Media  
Communication  
Code: Major 1- Paper 10

Time: 3 Hours

M.M: (14X5=70)

Note: Attempt any five questions only.

- Q1. What is economics? How is economics the king of sociology?
- Q2. What is new media? How does new media impact the economy of old media?
- Q3. What are the different segments of media industries?
- Q4. Give an overview of contribution of different sectors of media in Indian economy.
- Q5. What is Merger? Explain the different types of merger?
- Q6. How is an acquisition different from merger? What can be the reasons for an acquisition?
- Q7. What is the relationship between economics and communication process? Give example.
- Q8. Explain in detail the political economy of Media Markets.
- Q9. Write a note on following:  
A) Brand Analysis  
B) Investment in Media Industry
- Q10. Write a detailed note on the digital divide in a global economy.

1<sup>st</sup> INTERNAL EXAMINATION OCTOBER 2023

BA-JMC-SEMESTER V


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1<sup>st</sup> INTERNAL EXAMINATION OCTOBER 2023

**BCH SEMESTER V**

**PAPER NAME: Insurance & Risk Management**  
**Code: 506 (FOS)**

**Time: 3 Hours**

**M.M: 70**

**Note:** *Attempt any five questions only.*

- Q.1** Explain Insurance as a Social Security Tool.
- Q2.** Describe the Principles of Insurance Contract.
- Q3.** Describe Life Insurance and its characteristics.
- Q4.** Explain Double insurance and Re-insurance.
- Q5.** Explain the purpose and needs of Insurance.
- Q6.** Explain the relation between insurance and economic development.
- Q7.** Explain Whole-life policy and Term-life policy.
- Q8.** Describe the terms and conditions of a life insurance policy.
- Q9.** What is Nomination and Assignment in Life Insurance.
- Q10.** Define Premium and factors affecting its calculation.

1<sup>st</sup> INTERNAL EXAMINATION OCTOBER 2023

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**1<sup>st</sup> INTERNAL EXAMINATION OCTOBER 2023**

**BCH SEMESTER I**

**PAPER NAME: FINANCIAL ACCOUNTING**

**Code: BCH 101**

**Time: 3 Hours**

**M.M: (14X5=70)**

**Note: Attempt any five questions only.**

- Q.1** Define accounting and discuss its scope and objective.
- Q.2.** Revenue earned and cost of earning that revenue should be properly identified for a period. Explain this statement.
- Q3.(a)** Define accounting standards. What are its main objectives?
- (b)** Give at least ten examples of capital expenditure and Revenue expenditure.
- Q4.(a)** Differentiate between cash and mercantile systems of accounting.
- (b)** Write short notes on- (i) Accounting Equation (ii) Dual Aspect Concept
- Q5.** Explain the following accounting concepts: (i) Business Entity Concept (ii) Going concern concept (iii) Cost concept
- Q6.** Mr Amit took a mine on lease for 15 years. Minimum rent per year is Rs. 1,00,000. Short-workings can be recouped out of excess of royalty in the next three years of short-workings. During the year of strike if royalty is less than minimum rent then minimum rent is reduced by 60% in the year of strike only. First year when minimum rent is to be paid, expires on 31<sup>st</sup> march. Excess over royalty paid during first year was Rs.30,000, of the second year Rs.40,000 and third year

Rs.20,000. In the fourth year actual royalty amounted to Rs.1,70,000 and in the fifth year Rs.50,000. There was a strike in the fifth year. Royalty of sixth year amounted to Rs.1,00,000. Pass necessary journal entries in the books of lessee and prepare Landlord account in the books of lessee.

**Q7.** S.M. Himalaya ship set voyage from Kolkata to Mumbai on 31<sup>st</sup> march, on which date the accounts are closed, the return voyage had not been completed. The details for the entire voyage to Mumbai and back to Kolkata completed after 31<sup>st</sup> march are: Freight Rs.4,00,000, Diesel consumption Rs.70,000, Stores consumed Rs.30,000, Port charges Rs.15,000, Salaries of crew Rs.40,000, Depreciation Rs. 40,000, Insurance-Ship Rs.20,000, Insurance-Freight Rs.8,000, Primage 10%, Address commission 5%. Only Rs.1,50,000 freight was available on return journey. Prepare voyage account upto 31<sup>st</sup> March. Expenses on full return voyage have been included.

**Q8.** On 1<sup>st</sup> January, 2022, the following were the ledger balances of Rock & co. : Cash in hand Rs.900, Cash at bank Rs.21,000, Suraj (Cr.) Rs. 3,000, Pramod (Dr.) Rs. 2,400, Stock Rs, 12,000, Prasad (Cr.) Rs.6,000, Sharma (Dr.) Rs.4,500, Lalit (Cr.) Rs.2,700, Ascertain Capital. Transactions during the month were:

Jan. 02 Bought goods of Prasad	
Jan. 03 Sold to Sharma	2,700
Jan. 05 Bought Goods of Lalit for cash, paid by cheque	3,000
Jan. 07 Took Goods for personal use	3,600
Jan. 13 Received from Pramod in full settlement	200
Jan. 17 Paid to Suraj in full settlement	2,350
Jan. 22 Paid cash for stationery	2,920
Jan. 29 Paid to Prasad by cheque	50
Discount allowed by him	2,650
Jan. 30 Provided interest on capital	50
Rent due to Landlord	100
	200

Prepare a Trial Balance from the above transactions.

**Q9.** What is voyage account? How is profit ascertained in case of incomplete voyage?

**Q10.** What is Hire-Purchase system? Give its merits and demerits.

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1<sup>st</sup> INTERNAL EXAMINATION OCTOBER 2023 BCH

SEMESTER I

PAPER NAME: PRINCIPLES OF ECONOMICS

Code: BCH 104

Time: 3 Hours M.M: (14X5=70) Note: Attempt any five questions only.

- Q.1. Explain the definition of economics. Give a comparative analysis of the definition of economics given by Adam Smith and Marshall.
- Q2. "Economics is about making choices in the presence of scarcity." Discuss.
- Q3. "The science of economics has both positive and normative aspects." Discuss.
- Q4. Differentiate between Micro and Macro-economics.
- Q5 State and explain the law of diminishing marginal utility with the Law of Equi-marginal Utility.
- Q6. Explain the following: (a) Demand function, (b) Demand schedule and (c) Demand curve.
- Q7. Distinguish between the movement along a demand curve and a shift in the demand curve. And also explain the exceptions of the law of demand.
- Q8. What are indifference curves? Explain the properties of the Indifference curve.
- Q9. Explain the decomposition of Price effect into Income effect and substitution effect by Hicks.
- Q10.. Explain ICC and PCC curves.

1<sup>st</sup> INTERNAL EXAMINATION OCTOBER 2023 BCH

SEMESTER I

PAPER NAME: PRINCIPLES OF ECONOMICS

Code: BCH 104

Time: 3 Hours M.M: (14X5=70) Note: Attempt any five questions only.

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1st INTERNAL EXAMINATION

B. Com V

PAPER NAME: INTRODUCTION TO ENTREPRENEURSHIP

Code: P27

Note: Attempt any five questions only.

Time: 3 Hours

M.M: (75)

Q1-What are the key concepts and objectives of entrepreneurship?

Q2-List three entrepreneurial traits and explain why they are important.

Q3-What factors might motivate someone to pursue a career in entrepreneurship?

Q4-How does entrepreneurship serve as a career option, and what are its benefits?

Q5-Explain the relationship between creativity, innovation, and entrepreneurship.

Q6-What are some common bottlenecks that can hinder creativity in an entrepreneurial context?

Q7-Name two sources of new ideas that entrepreneurs can tap into.

Q8-Describe at least two techniques for generating innovative business ideas.

Q9-How can entrepreneurs assess the business potential of an idea, and what is the process of turning an idea into an opportunity?

Q10-Describe different types of new ventures and tax implication of various forms of ventures



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1st INTERNAL EXAMINATION

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1st INTERNAL EXAMINATION OCTOBER 2023

B. Com I

PAPER NAME: Micro economics

Code:

Time: 3 Hours

M.M: (15X5=75)

Note: Attempt any five questions only.

- Q.1 Explain the geometric method of measuring Price Elasticity of Demand.
- Q2. Explain any five factors that affect Price Elasticity of Demand.
- Q3. When price of a good is 13 per unit, the consumer buys 11 units of that good. When price rises to 15 per unit, the consumer continues to buy 11 units. Calculate Price Elasticity of Demand.
- Q4. What causes an upward movement along a demand curve of a commodity with graph?
- Q5. Explain the Law of Diminishing Marginal Utility with the help of a Total Utility schedule.
- Q6. What do you mean by an 'inferior good'? Give some examples with graph?
- Q7. Explain the difference between cardinal utility and ordinal utility. Give example.
- Q8 Due to rise in price of commodity x the demand of commodity y falls. What type of commodity are they with example and graph.
- Q9. What are the assumptions underlying the indifference curve approach?
- Q10 "IC is always convex to the origin". Explain?

  
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Lucknow Public College of Professional Studies

BCA III SEM Practical Examination

(BCA-308P – OPERATING SYSTEM LAB)

Set –I

Roll No

**Note: Attempt any one part**

Perform practical using C language

1. FCFS(First Come First Served)
2. RR( Round Robin) Scheduling
3. SJF(Shortest Job First)
4. Priority Scheduling

Lucknow Public College of Professional Studies

BCA III SEM Practical Examination

(BCA-308P – OPERATING SYSTEM LAB)

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# LUCKNOW PUBLIC COLLEGE OF PROFESSIONAL STUDIES

## BCA I Sem Practical Examination

Paper code : NBCA-101

Paper name : Fundamental of Computer and its appl

Set – II

Note : ques 1-3 is compulsory choose any 2 from 4-7

Choose a topic of your own interest and prepare a presentation according to the following instructions.

1. Use a blank presentation if you already know the information you require or AutoContent wizard for tips on your topic.

2. Save the work in your folder using your number in the filename. Keep saving as you work.

3. Your presentation should hold at least 4 to 5 slides.

a) slide 1 should be the title slide

i) Insert a title and subtitle

ii) -- the title slide, use fill color on the drawing tool bar to give it a background color

iii) Select the title slide then apply a suitable shadow or 3D effects.

(fill color, shadow, and 3D effects are found on the drawing toolbar)

iv) Do the step ii and iii for the subtitle slide as well.

b) slide 2 should have a bullet

i) Insert a new slide(use Insert -> New Slide)

ii) From the autolayout choose the slide with a bulleted list.

iii) Type a suitable heading and a list of information

c) slide 3 should have a table or chart

i) Insert a new slide(use Insert -> New Slide)

ii) From the autolayout choose a slide with either a table or chart.

iii) Change the information in the chart or table to your own information.

d) slide 4 should have at list a graphic or word art

i) Insert a new slide(use Insert -> New Slide)

ii) From the autolayout choose the blank slide (usually the last on the set of choices)

iii) Insert a graphic or word art(use Insert > Picture > ClipArt or WordArt)

iv) Use the drawing toolbar to insert the following:

a) insert a text box – type in text

b) insert an oval or rectangle – give them background colors and effects

c) insert an autosshapes of your choice –give them suitable colors.

e) slide 5 can have any layout of your choice

4. DESIGN- go to Format > Apply Design and choose a design of your choice

5. BACKGROUND COLOR – go to Format > Background and choose a background color of your choice. This can be applied to all slides or different colors to single slides.

6. ANIMATION

i) Move to slide one

ii) Go to Slide show > Custom Animation > Click on an object (it will be highlighted) > click on effects tab > choose effects of your choice > do a preview.

iii) Click ok

iv) Do the same (no ii & iii) for slide two, three, four and five.

7. SLIDE TRANSITION

i) Go to Slide show > Slide Transition > choose an effect > choose the speed > apply to all slides or different transition effects for single slides



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1<sup>st</sup> INTERNAL EXAMINATION OCTOBER 2023

BBA Vth Semester

PAPER NAME: BUSINESS LAW  
Code: P10

Time: 3 Hours

M.M: (15X5=75)

Note: Attempt any five questions only.

- Q.1 Explain the meaning of contract also mention the various essential element for a valid contract with sections.
- Q2. What are the different types of contract, explain with examples.
- Q3. What do you mean by offer, discuss its types and modes for revocation of offer.
- Q4. Statement says "consent is set to be free when it is not caused by" which elements, Explain with sections.
- Q5. How can you define the term breach of contract and what are the various remedies for breach of contract.
- Q6. Differentiate between contract of indemnity/guarantee and bailment/pledge.
- Q7. Define Quasi contract, mention various cases and examples of quasi contract with sections.
- Q8 Explain, terms and condition for contract of sales also mention 4 important subject matter in contract of sales with section.
- Q9. Differentiate between condition and warranty and explain the concept of doctrine of caveat emptor.
- Q10. What do you mean by the term unpaid seller what are the rights and duties of unpaid seller.

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**1<sup>st</sup> INTERNAL EXAMINATION OCTOBER 2023**

**BBA-V SEMESTER**

**PAPER NAME: CONSUMER BEHAVIOUR**

**Code: P11 Y**

**Time: 3 Hours**

**M.M: (5X15=75)**

**Note: Attempt any 5 questions only.**

- Q. 1 Define consumer behaviour. What is the role of consumer behaviour in marketing strategy?
- Q. 2 Explain consumer motivation and describe its role in marketing strategy.
- Q. 3 Explain the difference between culture and sub-culture. What is the role of culture in consumer behaviour?
- Q. 4 Explain and differentiate between Consumer Buying Behaviour and Industrial Buying Behaviour in detail.
- Q.5 Define Segmentation. List down the bases of market segmentation. Discuss the advantages of market segmentation.
- Q. 6 Discuss the external factors influencing attention/ perception. Explain how marketers make use of these concepts in influencing the perceptions of consumers towards a product or brand.
- Q.7 What are attitudes? Discuss the factors involved in attitude formation.
- Q. 8 Explain Abraham Maslow's hierarchy of needs theory and discuss its marketing applications with examples.
- Q. 9 Analyse the stages of consumer decision-making. Explain the degree of involvement and factors which decide the degree of involvement.
- Q. 10 What is personality? Explain the determinants of personality in detail.

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