



தொன் போல்னா கல்லூரி

தொன் போல்னா கல்லூரி, பாளையங்கோட்டை, தருமபுரி 636 009
 தொன் போல்னா கல்லூரி, 04342-291570, 293800, 292210
 தொன் போல்னா கல்லூரி, 04342-291570, 293800, 292210
 தொன் போல்னா கல்லூரி, 04342-291570, 293800, 292210



இளங்கலை முதலாமாண்டு - முதல் பருவம்
 சுழற்சித் தேர்வு (செப்-2018)

தாள் : 1 இக்கால இலக்கியங்களும் உரைநடையும்
 காலம் : 2 மணி 17UFTA01 மதிப்பெண்-50
 பகுதி - அ

I. அனைத்து வினாக்களுக்கும் விடையளி:

(5X2=10)

1. "துறைதோறும் துறைதோறும்
 துடித்தே முந்தே" - இடங்கட்டிப் பொருள் தருக.
2. "தடையில் லாமலே -சேஷமம்
 தலைத்து வருமையா" - இடங்கட்டிப் பொருள்
 தருக.
3. "சட்டம் ஒழுங்குப் பிரச்சனை- எதுவும்
 இல்லாமல் நாடு அமைதியாக இருந்தது" -
 இடங்கட்டிப் பொருள் தருக.
4. "உண்மையின் ஆடைகளை உடுத்து வந்த
 பொய்யோ" - இடங்கட்டிப் பொருள் தருக.
5. நட்பு உருவாகும் முறைகள் யாவை?

பகுதி -ஆ

II. வையேனும் நான்கு வினாக்களுக்கு விடையளி.

(4X5=20)

6. அ) காந்தியைப் போல் இருப்பது எவ்வாறு
 என நாமக்கல் கவிஞர் அறிவுறுத்துகிறார்?

(அல்லது)

- ஆ) இயேசு பிரான் தம் சீடருக்குக் கூறிய
 அறிவுரைகளை விளக்குக.

7. அ) உலகில் முன்னேற்றத்தைத் தடுக்கும்
 முடிச்சகளை விளக்குக.
 (அல்லது)

- ஆ) 'சுதந்திரம் என்ன தந்ததாக' கவிஞர்
 வைரமுத்து கூறுகிறார்?

8. அ) 'திருக்குறள் எழுதப்பட்டது
 இல்லறத்திற்காகத்தான்' என்பதை நாமக்கல்
 கவிஞர் வழி விளக்குக.
 (அல்லது)

- ஆ) நட்பு குறித்து வேதாத்திரி மகரிஷி கூறும்
 கருத்துகளை இயம்புக.

9. அ) மனிதம் குறித்துக் கவிஞர் சிற்பி
 கூறுவனவற்றை எழுதுக.

(அல்லது)

- ஆ) சிறையில் இருப்பவர் செய்த குற்றங்களாகக்
 கவிஞர் கூறுவனவற்றை விளக்குக.

பகுதி-இ

III. வையேனும் இரண்டு வினாக்களுக்கு
 விடையளி. (2X10=20)

10. கவிமணி கூறும் 'ஒத்துழைப்பு' குறித்துக்
 கட்டுரைக்க.

11. 'தாடகை' குறித்துக் கவிஞர் வாலி
 கூறுவனவற்றைத் தொகுத்துரைக்க.

12. 'சங்கநெறி' குறித்துக்
 கட்டுரை வரைக.



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Cycle Test- SEP- 2018

ELECTRICITY AND MAGNETISM

Class : III B.Sc.Physics Marks : 50
Paper Code : 12UPH05 Time : 2 Hrs

SECTION – A

I. Answer any FIVE questions. (5x2=10)

1. State: farad.
2. Give the uses of a quadrant electrometer.
3. Write the principle of potentiometer.
4. Define Peltier coefficient.
5. Write the principle of Carey Foster Bridge.
6. What is self-inductance?
7. Define temperature coefficient of resistance.

SECTION – B

II. Answer ALL the questions. (4x5=25)

8. a) Explain the principle of a potentiometer.
(or)
b) What is meant by Peltier effect? Describe the S.G Starling method of demonstrating it.

9. a) How to measure Thomson effect and Thomson coefficient in S.G. Starling method?

(or)

- b) Explain Carey Foster's bridge.

10. a) Write a note on coefficient coupling.

(or)

- b) Describe Anderson's method for the measurement of self-inductance of a coil.

11. a) Write a note on damping correction.

(or)

- b) Calculate the magnetic induction at a point due to a straight conductor carrying current.

SECTION – C

III. Answer any TWO questions. (2x10=20)

12. Give the account of thermodynamics of thermocouple.
13. Explain in detail about Moving Coil Ballistic Galvanometer.
14. Describe with necessary theory of absolute capacity of a condenser.



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CYCLE TEST – SEP – 2018 GRAMMAR AND USAGE

Class : I B.A. ENGLISH
Sub Code : 17UEN02

Marks : 50
Time : 2Hrs

SECTION A

- I. Answer the following questions: (7 X 2 = 14)**
- Identify the case of the noun in the following sentences.
 - James threw a stone
 - He has a bunch of keys
 - He broke the glass
 - Honesty is the best policy
 - What are called the possessive pronouns?
 - Give the opposite gender for the following:
 - Master
 - Man-servant
 - Tiger
 - Dog
 - Fill in the blanks with suitable articles.
___ airport is ___ place where planes to landing and take-off. I had ___ opportunity to travel in ___ aeroplane.
 - Fill in the blanks with suitable pronouns.
 - Kumar met ___ yesterday.
 - Sheela went to ___ house.
 - Murali went to the market with ___ wife.
 - Lilly obeyed ___ words.
 - Fill in the blanks with suitable adjectives.
 - Bangalore is a ___ city.
 - He is a ___ man.
 - Be a ___ friend of all.
 - He always wears ___ shirts.

- Fill in the blanks with suitable prepositions.
Yesterday we went ___ the circus. An elephant stood ___ a small bench. The joker was running ___ one end ___ the other end.

SECTION B

- II. Answer any four of the following questions: (4X4=16)**

- What is a noun? Explain it with examples.
- Explain the kinds of sentences with examples.
- Mention different types of adverbs with examples.
- Choose the correct answer from the bracket.
 - Priya ___ till 9 Pm (works / write / sleep)
 - I ___ you English. (teaches / taught / learn)
 - I ___ my work daily. (do / does / did)
 - It ___ be the reason. (can / might / shall)
 - She ___ play marbles. (used to / must / need to)
 - I can drive a car. (transitive / intransitive)
 - He refused ___ the order. (obey / to obey)
 - She ___ play marbles. (used to / must / need to)
- Define hyperbole, metaphor, irony, personification with examples.

SECTION C

- III. Answer the following questions: (2X10=20)**
- Classify the different kinds of pronoun with suitable examples.
 - Discuss the kinds of preposition with suitable examples.



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CYCLE TEST – SEP – 2018 TWENTIETH CENTURY

Class : III B.A. ENGLISH
Sub Code : 12UEN10

Marks : 50
Time : 2Hrs

SECTION A

I. Answer any five of the following questions:

(5 X 2 = 10)

1. Write a note on epigraph used by Eliot.
2. Describe spring season in 'The Wasteland.'
3. Who is considered to be a tragic figure in *Mother Courage and Her Children*?
4. How did Katrin die?
5. What is meant by Capon?
6. Discuss the structure of 'The Wasteland.'
7. Define Epic Theatre.
8. List out the functions performed through words.

SECTION B

II. Answer any four of the following questions:

(4X5= 20)

9. Explain the role of Tiresias.
10. Write a paragraph on Grail Legend.
11. Elaborate the four scenes presented in *The Burial of the Dead*.
12. Sketch the character of Eilif.
13. Discuss the effects of the Thirty Years' War.
14. Narrate the significance of Silence and Dumbness.

SECTION C

III. Answer any two of the following questions:

(2X10=20)

15. Examine the conflict between motherhood and business in the play *Mother Courage and Her Children*.
16. Bring out the negative aspects of Mother Courage character?
17. 'The Wasteland' is touchstone of modern poetry- Illustrate.



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CYCLE TEST- SEPTEMBER -2018

COMPUTER FUNDAMENTALS AND MS-OFFICE

Class : I B.Sc D.P.M Mark : 50

Paper code: 17UDP01 Time : 2 hrs.

SECTION – A

I. Answer any five questions. (5x2=10)

1. Write short notes on main frame computers.
2. What is meant by microprocessors?
3. Expand ALU, RAM.
4. How do you add symbols in MS Word?
5. List any two storage devices.
6. Differentiate copy-paste and cut-paste.
7. Define Registers.
8. Write any four file formats.

SECTION – B

II. Answer all the questions. (4x5=20)

9. (a) How do you classify digital computer in today's computer era?

(or)

(b) Discuss the applications of mainframe IBM computers for specialized needs.

10. (a) Describe the functions of the central processing unit in a personal computer.

(or)

(b) Discuss the two types of storage , retrieval and component in computer.

11. (a) State the advantages of Microsoft office and related software packages in office automation.

(or)

(b) Explain the terms menu, commands and icons.

12. (a) Explain RAM and ROM in a computer

(or)

(b) Write different types of text alignment in MS-word.

SECTION – C

III. Answer any two questions. (2x10=20)

13. Elaborate the types and characteristics of the different types of computers.
14. Discuss in detail the memory units , input and output devices in computer.
15. How is formatting documents and mail merge done?



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CYCLE TEST – SEPTEMBER- 2018 BUSINESS COMMUNICATION

Class : I - BBA Marks : 50
Paper Code : 17UBA02 Time : 2 Hrs

SECTION - A

Answer any FIVE questions: (5X2=10)

1. Define communication.
2. List out the limitations of written communication.
3. Discuss about business correspondence.
4. Write the five types of business letters.
5. What is meant by quotation?
6. Explain the principles of collection letter.
7. Describe status enquiry.
8. List out the functions of modern bankers.
9. Explain agency correspondence and its kinds.
10. Write a letter to the editor.

SECTION - B

Answer ALL the questions: (4X5=20)

- 11.a) Illustrate the barriers of communication.

(or)

- b) What are the objectives of business communication?
12. a) Draw the layout of business letters.
(or)
- b) Explicate the complaints and adjustments.
13. a) Write a brief notes on status enquiry.
(or)
- b) Define letter of enquiry.
14. a) Find out the role of agency correspondence.
(or)
- b) Explain life and fire insurance.

SECTION - C

Answer any TWO questions: (2X10=20)

15. Discuss the different types of communication.
16. State and explain the various parts of a letter.
17. What is circular letter and mention its objectives?
18. Explain banking correspondence.



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CYCLE TEST – SEPTEMBER-2018 STRUCTURED SYSTEM ANALYSIS AND DESIGN

Class	:II BCA	Marks	: 50
Paper Code	:17UCA04	Time	: 2 Hrs

SECTION – A

I. Answer any five questions (5 x 2 = 10)

1. Abbreviate JAD.
2. List out the types of feasibilities.
3. Draw a diagram of process modeling.
4. Compare system analysis and design.
5. What does a system analysis do?
6. How can you maintain the project?
7. Delineate communication skills.
8. What is testing?

SECTION – B

II. Answer all the questions (4 x 5 = 20)

9. a) Explain the characteristics of a system.
(or)
b) Discuss the types of system.

10. a) Elucidate top five technical skills.
(or)
b) Discuss the duties of a system analyst.

11. a) Elaborate the MIS organization.
(or)
b) Illustrate general business knowledge.

12. a) List out the different types of feasibility analysis and explain it.
(or)
b) Enlighten the concepts of system approach to problem solving.

SECTION – C

III. Answer any two questions (2 x 10 = 20)

13. Define communication skill and explain its types.
14. Elaborate the system analysis and design.
15. Examine the process modeling with logical data diagrams.
16. Illustrate data flow diagram and its types.



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CYCLE TEST –SEPTEMBER 2018 OPERATING SYSTEM

Class : III B.Sc (CS)
Paper Code : 12UCS07

Marks : 50
Time : 2 Hrs

SECTION – A

I. Answer any five questions (5 x 2 = 10)

1. Define operating system.
2. List out the different types of system calls.
3. What is thread?
4. Compare MUTEX and Semaphore.
5. State busy waiting in I/O devices.
6. Abbreviate MMU and state its advantage.
7. Delineate page frame.
8. When will deadlock occur?

SECTION – B

II. Answer ALL the questions (4 x 5 = 20)

9. a) Explain the concept of multiprogramming with fixed partition.
(or)
b) Discuss the goals of I/O software.

10. a) Elucidate virtual memory concept in operating system.

(or)

b) Discuss Peterson solution with algorithm.

11. a) Elaborate the concept of deadlock detection and recovery.

(or)

b) Illustrate semaphores.

12. a) List out the types of operating system and explain.

(or)

b) Enlighten the concepts of processes and files.

SECTION – C

III. Answer ALL the questions (2 x 10 = 20)

13. a) Describe any four page replacement algorithms
(or)

b) Write about the principles of I/O hardware.

14. a) Examine the bankers and safety algorithm.
(or)

b) Illustrate system calls and their types.



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CYCLE TEST SEP - 2018

BUSINESS LAW

Class : II B.Com	Marks: 50
Paper Code: 17UCM05	Time : 2Hrs

SECTION – A

I. Answer ANY FIVE questions: (5x2=10)

1. ~~Explain~~ meaning of contract of guarantee.
2. What is indemnity?
3. Define performance of contract.
4. What do you mean by valid contract?
5. Define bailment.
6. Give the meaning of agency.
7. What is pledge?
8. State the termination of agency.

SECTION – B

II. Answer ALL the questions: (4x5=20)

9. (a) Enumerate the types of guarantee.

(or)

- (b) Who can demand the performance of contract?

10. (a) What is bailment? And give its feature.

(or)

- (b) Explain the rights of bailer.

11. (a) Explain the essential features of agency.

(or)

- (b) Explain the reason for termination of agency.

12. (a) What is indemnity? And give its rights.

(or)

- (b) Enumerate the right and duties of Principal and Agent.

SECTION – C

III. Answer ANY TWO questions: (2x10=20)

13. Discuss the relation of principal and third parties.
14. Describe the types of agent.
15. Explain the differences between indemnity and Guarantee.



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CYCLE TEST SEPTEMBER – 2018

MODERN BANKING

Class	: I M.Com.	Max. Marks	: 50
Paper Code	: 17PCM04	Time	: 2Hrs

Section – A

Answer ALL the questions (4 x 5 = 20)

1. a) Define Banking. Enumerate the functions of a banking company.

(or)

- b) Explain the features of banking.

2. a) Converse the functions of Central Bank.

(or)

- b) Distinguish between quantitative and qualitative credit controls.

3. a) List out some of the facilities of the credit card holder.

(or)

- b) State the advantage of online banking.

4. a) Assess the merits and demerits of e - banking.

(or)

- b) What is ATM? Explain the advantages of ATM.

Section – B

Answer ALL the questions (3 x 10 = 30)

5. a) Discuss the significance of banking system in the process of economic development.

(or)

- b) Elucidate the various functions of RBI.

6. a) Explain the risk involved in e-banking.

(or)

- b) Explicate the advantages and disadvantages of credit card to its members and banks.

7. a) List out the recent trends in Indian banking system.

(or)

- b) Bring out the importance of online banking.
-



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CYCLE TEST

FUNDAMENTALS OF INSURANCE

Class : III B.Com Marks: 50
Paper Code: 12UCME01 Time : 2 Hrs

SECTION – A

I. Answer any FIVE Questions (5×2=10)

1. Write a short note on surrender value.
2. What is meant by paid-up value.
3. Define the term marine insurance.
4. Who can make a claim on a policy?
5. Give any two examples of marine perils.
6. What do you mean by alteration in policies?
7. Write a short note on insurance of minor.
8. How will you compute surrender value?

SECTION – B

II. Answer ALL questions (4×5=20)

11. a) Indicate the bases of calculating surrender Value.

(or)

- b) Explain loan against life policies.
12. a) Distinguish between surrender value and paid-up value.

(or)

- b) What are the various types of claims of a policy?
13. a) What are the conditions of marine insurance policy?

(or)

- b) Bring out the different kinds of marine perils.
14. a) Explain the characteristics of the marine insurance contract.

(or)

- b) How the claims are settled to the assured?

SECTION – C

III. Answer any TWO questions (2×10=20)

15. Explain the various types of marine insurance policies available in India.
16. Make a detailed description on and about marine insurance.
17. What do you mean by claim? and explain how the claim may arise.



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CYCLE TEST-SEP 2018

FUNDAMENTALS OF INSURANCE

Class : III B.Com, CA. Marks: 50
Paper Code: 08UCCE01 Time: 2 Hrs

Section – A

Answer ALL the questions (5 x 2 =10)

1. Define Insurance.
2. What is risk?
3. Give the meaning of nomination.
4. State the meaning of assignment.
5. Write short note on premium.
6. Quote the meaning of surrender value.
7. What is paid up value?
8. Write a note on claim by death.

Section – B

Answer ALL questions (4x 5 = 20)

9. a) Explain the functions of insurance.
(or)

b) Describe the natures of insurance.

10. a) Elucidate the different types of annuities.

(or)

b) State the natures of life insurance.

11. a) Mention the methods of reinsurance.

(or)

b) Point out the essentials of fire insurance.

12. a) Explain the features of fire insurance.

(or)

b) Discuss the fire policy condition.

Section – C

Answer any TWO questions (2x 10 = 20)

13. Describe the various principles of insurance contract.
14. Discuss the advantages of life insurance.
15. Explain the various types of fire insurance.



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CYCLE TEST SEP- 2018 INORGANIC CHEMISTRY - III

Class : II M.Sc.Chem. Marks : 50
Paper Code : 17PCH07 Time : 2 Hrs.

SECTION – A

Answer ALL the questions: (6×5=30)

1. a) Describe the Neutron diffraction.
(or)
b) Define X-ray diffraction and give the method of X-ray diffraction.
2. a) Derive the analysis of X-ray data for cubic system.
(or)
b) What are the crystallographic point groups and space groups.
3. a) Discuss the Structure factor and fourier synthesis.
(or)
b) Give the detailed concept of Miller indices and labelling of planes.
4. a) Discuss about decay of radio nuclei.
(or)

b) Write note on Binding energy and exchange forces.

5. a) Determine the half-life period.

(or)

b) Explain the rate of decay

6. a) Draw the G.M counter and Scintillation counters.

(or)

b) Write about Q-values.

SECTION – B

Answer ALL the questions: (2×10=20)

7. a) Show that the bravais lattice of the crystal systems.
(or)
b) Determine the neutron and electron diffraction method.
 8. a) Describe the decay of modes and nuclear isomerism.
(or)
b) Explain the following
 - (i) Internal Conversions. (3 Marks)
 - (ii) Nuclear potential. (3 Marks)
 - (iii) Nuclear cross section. (2 Marks)
 - (iv) Binding energy. (2 Marks)
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CYCLE TEST - SEP 2018 GENERAL CHEMISTRY – III

Class : II B.Sc. Chem Marks :50
Paper Code : 17UCH03 Time : 2 Hrs

SECTION – A

Answer any FIVE questions: (5 X 2 = 10)

1. Define trans esterification.
2. How will you prepare citric acid?
3. Give the preparation of malonic acid.
4. Differentiate hydroxy acids and dicarboxylic acids.
5. State space lattice.
6. Tabulate saturated acids and unsaturated acids.
7. What are isotropy and anisotropy?
8. Draw the structure of NaCl and CsCl.
9. Mention the interfacial angle.
10. Write a note on Bragg's equation.

SECTION – B

Answer ALL the questions: (4X5=20)

11. a) Explain the amido-imido tautomerism.
(or)

b) Discuss the preparation and properties of cinnamic acid.

12. a) Sketch the Keto-enol tautomerism.

(or)

b) Describe conversion of acid into its derivatives.

13. a) Give the experimental methods structures of NaCl and ZnS.

(or)

b) Find out law of rational indices.

14. a) Differentiate crystalline and amorphous solid.

(or)

b) Derive Bragg's equation.

SECTION – C

Answer ALL the questions: (2X10=20)

15. a) Write the preparation and properties of acrylic and oleic acid.

(or)

b) Distinguish action of heat on hydroxy acids.

16. a) Illustrate the elements of symmetry.

(or)

b) Explain Band theory of solids.



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CYCLE TEST- SEP 2018 PHYSICAL CHEMISTRY - I

Class : III B.Sc. Chem. Marks : 50
Paper Code : 12UCHE01 Time : 2 Hrs

SECTION – A

Answer ANY FIVE questions: (5x2=10)

1. Define order of reaction.
2. What is meant by activation energy?
3. State rate constant.
4. Write down the molecularity.
5. Bring out the limitations of collision theory.
6. Illustrate the entropy of activation.
7. Give the collision number.
8. Define energy of activation.

SECTION – B

Answer ALL the questions: (4x5=20)

9. a) Derive the rate constant for the reaction
 $3A \longrightarrow P$.

(or)

b) Explain the Arrhenius equation.

10. a) How polarimetry method can be used for the study of kinetics?

(or)

b) Derive an expression for $t^{1/2}$ of a first order reaction.

11. a) Discuss the Lindemann theory of Unimolecular reaction.

(or)

b) Write the rate constant of a bimolecular reaction from collision theory.

12. a) Enumerate the comparison between ARRT and CT.

(or)

b) What are the drawbacks of collision theory?

SECTION – C

Answer ANY TWO questions: (2x10=20)

13. Discuss about the rate constant of a second order reaction.
14. Explain the determination of reaction kinetics by volumetric and colorimetric method.
15. Derive the ARRT theory.
16. Discuss about the transition state theory.



CYCLE TEST - SEPTEMBER 2018
ADVANCED MATHEMATICS-I

CLASS : B.C.A., B.Sc.,(C.S.,CHE,PHY)
 PAPER CODE : 17UMAA01

MARKS : 50
 TIME : 2Hrs

SECTION - A

I. Answer any FIVE questions.

(5× 2=10)

1. State Cayley-Hamilton theorem.
2. Find the characteristic roots of $\begin{bmatrix} 3 & 2 \\ 2 & 3 \end{bmatrix}$.
3. What is the relation between curvature and radius of curvature?
4. Write the Cartesian formula for finding the radius of curvature.
5. Find the Eigen values of $\begin{bmatrix} a & h & g \\ 0 & b & 0 \\ 0 & 0 & c \end{bmatrix}$.
6. What is the formula for finding radius of curvature in polar co-ordinates?
7. Define R.C.

SECTION - B

II. Answer ALL questions.

(4×5=20)

8. (a) Find the Eigen values of $\begin{bmatrix} 6 & -2 & 3 \\ -2 & 3 & -1 \\ 2 & -1 & 3 \end{bmatrix}$.
 (or)
 (b) Verify Cayley- Hamilton theorem for $\begin{bmatrix} 5 & 3 \\ 2 & 4 \end{bmatrix}$ and find A^{-1} .
9. (a) Show that the matrix $\begin{bmatrix} 0 & c & -b \\ -c & 0 & a \\ b & -a & 0 \end{bmatrix}$ satisfies Cayley-Hamilton theorem.
 (or)

- (b) Find the characteristics equation of $A = \begin{bmatrix} 1 & 1 & 3 \\ 5 & 2 & 6 \\ -2 & -1 & -3 \end{bmatrix}$ and show that the matrix A satisfies the equation.

10. (a) Show that the radius of curvature at the point (x,y) on the curve $y = c \cosh(x/c)$ is y^2/c .

(or)

- (b) Verify that the radius of curvature at the point $(a/4, a/4)$ to the curve $\sqrt{x} + \sqrt{y} = \sqrt{a}$.

11. (a) Show that the radius of curvature at the point θ on the curve $x = a(\cos \theta + \theta \sin \theta), y = a(\sin \theta - \theta \cos \theta)$.

(or)

- (b) Find the radius of curvature at (a, θ) on the curve $y^2 = \frac{a^2(a-x)}{x}$ is $\frac{a}{2}$.

SECTION-C

III. Answer any TWO questions.

(2x10=20)

12. Show that the radius of curvature for the curve $r = a(1 + \cos \theta)$ at the point (r, θ) is $2/3 \sqrt{2ar}$.
13. Find the radius of curvature at any point on the curve $r^n = a^n \cos n\theta$.
14. Verify all the characteristic roots and find the Eigen vectors of the matrix $\begin{bmatrix} 8 & -6 & 2 \\ -6 & 7 & -4 \\ 2 & -4 & 3 \end{bmatrix}$.

.....

**CYCLE TEST - SEPTEMBER 2018**
DIFFERENTIAL CALCULUS**CLASS : I- B.Sc., MATHS MARKS:50**
PAPER CODE: 17UMA02 TIME : 2Hrs**SECTION - A****I. Answer any FIVE questions (5× 2=10)**

1. If $x = r \cos \theta$, $y = r \sin \theta$, find $\frac{\partial(x,y)}{\partial(r,\theta)}$.
2. Write the conditions for finding maxima and minima.
3. If $x = u(1+v)$ and $y = v(1+u)$, find $\frac{\partial(x,y)}{\partial(u,v)}$.
4. Find the maximum value of $f(x,y) + 2(x^2 - y^2) - x^4 + y^4$, at $(\pm 1, 0)$.
5. Define radius of curvature of the curve.
6. What is the radius of curvature of the curve $y = e^x$ at $(0, 1)$.
7. Write the formula for finding R.C. in polar co-ordinates.
8. Show that the pedal equation of $r = ae^{\theta \cot \alpha}$.

SECTION - B**II. Answer ALL questions (4×5=20)**

9. (a) Find the minimum value of $x^2 + 5y^2 - 6x + 10y + 12$.
(or)
(b) Examine for maximum and minimum of the function $f(x,y) = x^2 - 3xy + y^2 + 2x$.

10. (a) If $x = \sin \theta \sqrt{1 - a^2 \sin^2 \theta}$, $y = \cos \theta \cos \theta$, then show that $\frac{\partial(x,y)}{\partial(\theta,\theta)} = \frac{-\sin \theta [(1-a^2) \cos^{-2} \theta + a^2 \cos^{-2} \theta]}{\sqrt{1-a^2 \sin^2 \theta}}$.
(or)

(b) Classify the shortest distance from the point $(1, 0, -2)$ to the plane $x + 2y + z = 4$.

11. (a) Find the radius of curvature at the point (x, y) on the curve $y = c \cosh(x/c)$ is y^2/c .

(or)

(b) Prove that the radius of curvature at the point θ on the curve $x = a(\cos \theta + \theta \sin \theta)$, $y = a(\sin \theta - \theta \cos \theta)$.

12. (a) Verify that the pedal equation of the curve $r = a(1 - \cos \theta)$.
(or)

(b) Show that the radius of curvature for the cardioid $r = a(1 + \cos \theta)$ at the point (r, θ) is $\frac{2}{3} \sqrt{2ar}$.**SECTION - C****III. Answer any TWO questions (2×10=20)**

13. Find the radius of curvature at $x = y = \frac{3a}{2}$ to the curve $x^3 + y^3 = 3axy$.
14. Investigate the extreme values of $xy(a - x - y)$.
15. Show that the radius of curvature at the point $(\frac{a}{4}, \frac{a}{4})$ to the curve $\sqrt{x} + \sqrt{y} = \sqrt{a}$.



தொன் போஸ்கோ கல்லூரி

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முதுகலைத் தமிழ் இரண்டாமாண்டு - மூன்றாம் பருவம்
 தாள் - கல்வெட்டியல்
 சுழற்சித் தேர்வு (செப் - 2018)

காலம்: 2 மணி

17PTA16

மதிப்பெண்: 50

பகுதி - அ

(4×5=20)

I. அனைத்து வினாக்களுக்கும் விடையளி.

1. அ) அரச மரபுத் தரவுகள் குறித்து விளக்குக.

(அல்லது)

ஆ) புகழூர்க் கல்வெட்டு - குறிப்பு வரைக.

2. அ) இரு வரிவடிவக் கல்வெட்டுக்கள் காண்பெறும் இடங்களைச் சுட்டுக.

(அல்லது)

ஆ) பாலி மொழிக் கல்வெட்டுக்கள் குறித்து விளக்குக.

3. அ) பிற்காலப் பாண்டியர் கல்வெட்டுக்கள் குறித்து எழுதுக?

(அல்லது)

ஆ) கல்வெட்டும் மொழியியலும் குறித்துத் தெளிவுறுத்துக.

4. அ) கரோஷ்டி - குறிப்பு வரைக.

(அல்லது)

ஆ) கல்வெட்டு ஆய்விற்காகத் தொடங்கப்பட்ட இதழ்கள் குறித்து எழுதுக?

பகுதி - ஆ

(3×10=30)

II. எவையேனும் மூன்றனுக்கு விடையளி.

5. அ) தமிழக வரலாற்றை அறிய கல்வெட்டுக்களும், இலக்கியங்களும் துணைபுரியுமாற்றை விளக்கி வரைக.

(அல்லது)

ஆ) செப்பெடுகள் என்னும் தலைப்பில் கட்டுரை வரைக.

6. அ) அசோகர் கல்வெட்டுக்கள் குறித்துச் சுருக்கமாக விவரிக்க.

(அல்லது)

ஆ) முற்காலக் கல்வெட்டுக்கள் மற்றும் சோழர் காலக் கல்வெட்டுக்களைத் தெளிவுப்படுத்துக.

7. அ) இந்தியக் கல்வெட்டாய்வின் வரலாற்றைத் தொகுத்துரைக்க.

(அல்லது)

ஆ) கல்வெட்டுக்களின் காலக் கணிப்பு முறை பற்றிக் கட்டுரை வரைக.



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MODEL EXAM – OCTOBER 2018 SOFTWARE ENGINEERING

Class : III B.Sc CS 'A' & 'B' Marks: 75
Paper Code: 12UCS08 Time : 3 Hrs

SECTION – A

Answer all the questions: (10X2=20)

1. Define Software Engineering.
2. Write any three factors which affects software.
3. State coupling.
4. Write down the main purpose of requirement analysis.
5. What is window system?
6. Expand UML.
7. Mention the use of CASE tools.
8. What do you mean by structured chart?
9. Mention various user interfaces.
10. List out the maintenance measures of software.

SECTION – B

Answer all the questions: (5X5=25)

11. a) Write short notes on changes in software development.
(or)
b) Explain the design approaches in software development.

12. a) Explain the job responsibilities of project manager.

(or)

b) Write a note on functional requirements.

13. a) Enumerate function-oriented design.

(or)

b) Write briefly about symbols used in DFD.

14. a) Describe user interface design.

(or)

b) Elucidate SA/SD Methodology.

15. a) Illuminate software quality.

(or)

b) Give a detailed description on ISO 9000.

SECTION – C

Answer any three questions: (3x10=30)

16. How will you develop software using waterfall model? Explain.
17. Illustrate the design patterns in detail.
18. Write in detail about planning of a project.
19. Explain testing and its types.
20. Discuss the concept of software maintenance.



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MODEL EXAMINATION – OCTOBER 2018 LIFE SKILL EDUCATION

Class	: II BBA	Marks	: 75
Paper Code:	17UBAS02	Time	: 3 Hrs

SECTION – A

Answer any five questions (10X2=20)

1. Define life skill.
2. Explain any two components of life skills.
3. What is self esteem building?
4. Demonstrate emotional self awareness.
5. Mention the meaning of Self Control.
6. State the meaning of interpersonal relations.
7. What do you mean by sensitivity training.
8. Differentiate good stress and bad stress.
9. List our any two causes of strain.
10. Enunciate emotion.

SECTION - B

Answer all the questions (5X5=25)

11. (a). Why life skill is important?

(or)

(b). Explain critical thinking skills.

12. (a). How to cultivate self awareness.

(or)

(b). Mention the causes of Self-Esteem

13. (a). List out the factors affecting interpersonal relations.

(or)

(b). State the types of thinking.

14. (a). Enunciate the causes of stress.

(or)

(b). List out the major symptoms of stress.

15. (a). Construct a career plan.

(or)

(b). Mention the methods of coping emotions.

SECTION- C

Answer any three questions (3X10=30)

16. Explain life skill a life course approach.
17. Discuss the impact of Self Awareness in one's life .
18. Enumerate the Components of Interpersonal Relationship.
19. How to manage stress.
20. Point out emotion coping strategies in detail.



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MODEL EXAM - OCTOBER 2018 INORGANIC CHEMISTRY-III

Class : II M.Sc. Chem. Mark : 50
Paper Code : 17PCH07 Time : 3 Hrs

SECTION – A

I. Answer ALL the questions: (5×5=25)

1. a) Identify the X-ray data for cubic system.
(or)
b) Explain the miller indices and labelling of planes.
2. a) Brief an account of Madelung constant.
(or)
b) Demonstrate the structures of rock salt and cesium chloride.
3. a) Write a note on dislocations.
(or)
b) Elucidate the electrical properties of solids.
4. a) Discuss the scintillation counters.
(or)
b) Write short notes on liquid drop model.
5. a) Describe the stellar energy.
(or)
b) Explain synthesis of new elements.

SECTION – B

II. Answer ALL the questions: (5×10=50)

6. (a) Discuss the following:
(i) Isotopic dilution analysis. (5 Marks)
(ii) Neutron activation analysis. (5 Marks)
(or)
(b) What are the usages of radioisotopes.
 7. (a) Illustrate the Structure factor and Fourier synthesis.
(or)
(b) Explain the powder and rotating crystal methods.
 8. (a) How do you find out the point defect in solids.
(or)
(b) Explain semiconductors?
 9. (a) Discuss the Born-Haber cycle.
(or)
(b) Narrate the Goldschmidt radius ratio rule.
 10. (a) Explain the following:
(i) Alpha decay. (5 Marks)
(ii) Nuclear isomerism. (5 Marks)
(or)
(b) Clarify the linear accelerator and betatron.
-



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MODEL EXAMINATION - OCTOBER 2018 RETAIL MARKETING

Class : II M.Com. Marks: 75

Paper Code : 17PCME06 Time : 3 Hrs

SECTION – A

I. Answer ALL the questions: (5×5=25)

1. a) write a short note on origin of retailing in India.
(or)
b) Describe the characteristics of retailing.
2. a) Discuss how a retailer takes his buying decision process.
(or)
b) Narrate the changes of retail market structure.
3. a) Write a note on product retailing.
(or)
b) Describe the store location arises..
4. a) What are the key elements of merchandise planning.
(or)
b) Explain the various sales promotion tolls used by retailing.

5. a) Discusses the components of merchandises budget plan.

(or)

- b) Describe internet offers advantages to a retailer.

SECTION – B

II. Answer ALL the questions: (5×10=50)

6. a) Elucidate in details the emerging trends in Indian retail.

(or)

- b) Describe the types of store retailer.

7. a) Discuss the factor affecting consumer buying decision.

(or)

- b) Narrate the various communication methods used by retailer.

8. a) Explain the various significant aspects associated with retail strategy preparation.

(or)

- b) Describe the briefly the various non-store based retail formats.

9. a) Elucidate the various components of retail mix.

(or)

- b) How consumer can effect retail pricing policy?

10. a) Discusses the success guidance of online retailing

(or)

- b) Describe the retailer's advertising strategy differ from the manufactures.



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MODEL EXAM – OCT - 2018 SOFT SKILLS FOR CAREER COMMUNICATION

CLASS : II B.A. ENG. Marks : 75
PAPER CODE : 17UENS02 Time : 3 Hrs

SECTION A

I. Answer the following questions in about 50

words: (10x2=20)

1. Define Communication.
2. What is Written Communication?
3. Differentiate Skimming and Scanning.
4. Write the plural form of the following words:
(a) Agenda (b) Alumni (c) Data (d) News
5. Bring out the methods of reading pattern.
6. List out the four language skills.
7. Define Syntax.
8. Give a brief account of 'Guidance'.
9. Write a short note on 'Public Speaking'.
10. How do you use the Dictionary?

SECTION B

II Answer the following questions in about

200 words: (5x5=25)

11. (a) How is 'Group Communication' differed from the 'Individual communication' and how would you implement it?
(or)
(b) 'Communication is to people as fish is to water' bring out the underlying importance of communication.
12. (a) What are the barriers in the reading skill?

(or)

(b) Bring out the importance of grammar in learning a language with special reference to English Language.

13. (a) Discuss the role of libraries in Guidance and Counselling.

(or)

(b) Elucidate the differences between hard and soft skills.

14. (a) Will the thinking skill support one to achieve one's target?

(or)

(b) Do you agree with the saying that 'Early to bed and Early to rise?' Explain.

15. (a) Narrate the stages of Team Work.

(or)

(b) How does appearance make difference in an Interview?

SECTION C

III. Write any THREE of the following questions in about 400 words: (3x10=30)

16. What is communication? Explain the different types of communication.
17. Illustrate the different types of essays.
18. Does personality development skill play an important role in bring out one's career achievement?
19. What are the safety methods through which one can avoid stress?
20. What are the need, types and functions of Interview? Give examples with reference to substantiate your answers.



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MODEL EXAMINATION- OCT- 2018 DIFFERENTIAL EQUATION AND LAPLACE TRANSFORMS

Class : II B.Sc., Maths Marks: 75

Paper code: 17UMA06 Time: 3Hrs

SECTION - A

I Answer All the questions. (10 x 2 = 20)

- Solve $(D^2 + D - 2)y = 0$
- What is complementary function of $(D^2 + D - 2)y = 0$
- Find C.F of $(x^2 D^2 - 2x D - 4)y = 0$
- Solve $(x^2 D^2 - 7x D - 12)y = 0$
- Define Complete solution
- Solve $p(1+q) = qz$
- Find $L(e^{at} t^n)$
- Solve $L(t^2 \sin t)$
- Find the value of $L^{-1}\left(\frac{1}{(s+a)^2}\right)$
- Compute $L^{-1}\left(\frac{s}{s^2+k^2}\right)$

SECTION - B

II Answer All the questions. (5 x 5 = 25)

- (a) Find the general solution of $(D^2 - 2D + 1)y = x e^x \sin x$
(or)
(b) Solve $(D^2 + 2D + 1)y = e^{-x}$
- (a) Write the complementary function and particular integral of the equation $(x^2 D^2 - 2x D + 4)y = x^2$

(or)

(b) Solve the equation

$$x^2 \frac{d^2 y}{dx^2} + 4x \frac{dy}{dx} + 2y = \sin(\log x)$$

13. (a) Find the complete solution of

$$p+q = \sin x + \sin y$$

(or)

(b) Solve $z^2(p^2+q^2) = x^2 + y^2$

14. (a) Find the Laplace transform of $\left(\frac{e^{-3t} - e^{-4t}}{t}\right)$

(or)

(b) Solve $L(t \sin^2 t)$

15. (a) Find $L^{-1}\left(\frac{s}{s^2-1}\right)$

(or)

(b) Solve $L^{-1}\left(\frac{s}{s(s^2+a^2)}\right)$

SECTION - C

III Answer Any THREE questions. (3x10=30)

- Find the general solution of $(D^2 + 1)y = x^2 \cos x$
- Solve $x^2 \frac{d^2 y}{dx^2} + 4x \frac{dy}{dx} + 2y = x^{-2} + \sin \log x$
- Use Lagrange's equation, solve $(y+z)p + (z+x)q = x+y$
- Find the values of
(a) $L[t^2 \cosh at]$
(b) $L\left[\frac{\cos 3t - \cos 2t}{t}\right]$
- Solve $\frac{d^2 y}{dx^2} - 3 \frac{dy}{dx} + 2y = 4$ given that $y(0)=2$ and $y'(0)=3$



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MODEL EXAM – OCT - 2018 NGO MANAGEMENT

Class : II-MSW **Marks: 75**
Paper Code : 17PSW11C **Time : 3 Hrs.**

SECTION – A

I. Answer all the questions: (5 x 5 = 25)

1. a) Write the objectives of Non Profit Organization.
(or)
- b) Explain the functions of CBO's
2. a) Define the term evaluation and explain the process of evaluation
(or)
- b) Give 5 examples for Community based Organization.
3. a) List out the women welfare programs in Tamil Nadu
(or)
- c) How the NGOs are classified?
4. a) Write the importance of budgeting.
(or)
- b) Write the techniques of fund raising.
5. a) Explain the features of MIS.
(or)
- b) Enumerate the uses of base line survey for a project

SECTION – B

II. Answer all the Questions: (5X10=50)

6. a) Discuss the principles of Non Profit Organizations.
(or)
- b) Write the major functions of social welfare organizations.
7. a) Discuss the welfare programmes implemented by Govt. for the women and child development.
(or)
- b) What are the effective ways to implement the welfare projects?
8. a) Elaborate project proposal preparations.
(or)
- b) Explain the methods of PRA.
9. a) How do the NGO finally sustain without the external funding? Explain the problems faced.
(or)
- b) Explain the objectives and steps involved in planning.
10. a) Discuss the role of educational community welfare organizations.
(or)
- b) Explain the procedures for formation of societies act.



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MODEL EXAM – OCT - 2018

ENERGY PHYSICS

Class	: III B.Sc. Physics	Marks : 75
Paper Code	: 12UPHE04	Time : 3 Hrs

Section - A

I. Answer all the questions . (10x2=20)

1. What do you know about solar recorder?
2. Define beam radiation.
3. Elucidate about the wind data.
4. State types of rotors used in wind machine.
5. Give a short note on biomass energy.
6. Classify biomass conversion technologies.
7. Express the uses of Ni-Cd battery.
8. Discuss about sodium sulphur cell.
9. List out the types of heat pipes.
10. Describe the energy audit.

Section – B

II. Answer all the questions: (5x5=25)

11. a) Explain the principle and working of Solar cell.
(or)
b) Express the concept of solar radiation at the earth surface.

12. a) Give a short note on wind data and energy estimation.

(or)

b) Discuss the advantages of WECS system.

13. a) Write a note on process of photosynthesis.

(or)

b) Discuss in detail continuous type biogas plant.

14. a) Illustrate the construction and working of NiCd battery.

(or)

b) Elucidate the hydrogen storage.

15. a) List out the types of energy conservation technologies.

(or)

b) What are the advantages of energy audit?

Section - C

III. Answer any three questions: (3x10=30)

16. State the types of solar cooker with neat sketch.
 17. Discuss in detail about the basic components of WECS.
 18. Illustrate the Fixed dome digester type biogas Plant.
 19. Write and explain the functions of Lead acid battery with neat sketch.
 20. Describe in detail the construction and working of heat pipes.
-



தொன் போஸ்கோ கல்லூரி

தொன் போஸ்கோ கல்லூரி, தொன் போஸ்கோ கல்லூரி, தொன் போஸ்கோ கல்லூரி
 தொன் போஸ்கோ கல்லூரி, தொன் போஸ்கோ கல்லூரி, தொன் போஸ்கோ கல்லூரி
 தொன் போஸ்கோ கல்லூரி, தொன் போஸ்கோ கல்லூரி, தொன் போஸ்கோ கல்லூரி



முதலாமாண்டு - முதல் பருவம் மாதிரித் தேர்வு (அக்டோபர்-2018)

தொன் : 1 இக்கால இலக்கியங்களும் உரைநடையும்
 காலம் : 3 மணி 17UFTA01 மதிப்பெண்: 75

பகுதி - அ (10X2=20)

I. அனைத்து வினாக்களுக்கும் விடையளி.
 இடக்கட்டிப் பொருள் விளக்கம் தருக.

1. 'கங்கை நதிப்புறத்துக் கோதுமைப் பண்டம்'
2. 'உயிரிழுந்தும் செங்குருதி மண்ணிற் பாய்ந்தும்'
3. 'வீட்டிலும் ஏர்காலும் வலம் வந்த நிலம்'
4. 'நான் வேலையில்லாதப் பட்டதாரி'
5. 'ஐம்புலத்து ஆறு' என வள்ளுவர் குறிப்பிடுவன யாவை?
6. 'பண்பாடு' என்றால் என்ன?
7. தமிழ்ப் புதுக்கவிதையின் தந்தை யார்?
8. 'மனோன்மனியம்' நாடகத்தின் ஆசிரியர் பெயரைச் சுட்டுக.
9. மயங்கொலிச் சொற்பொருள் வேறுபாடு அறிக.
 தின்-தின்
10. கலைச்சொல்லாக்கம் தருக.

அ. Webpage ஆ. Memory

பகுதி - ஆ (5X5=25)

II. அனைத்து வினாக்களுக்கும் விடையளி.

11. அ. தமிழ்மொழியைக் காப்பதில்
 இளைஞர்களுக்குரிய பங்களிப்பை விளக்குக.
 (அல்லது)
 ஆ. காந்தியைப் போல் நாம் செய்யவேண்டிய
 செயல்கள் யாவை?

12. அ. உலகின் முன்னேற்றத்தைத் தடுக்கும்
 முடுக்ககளை அவிழ்த்து உடைப்பது எங்கனம்?
 (அல்லது)
 ஆ. நாடகையின் வருகையும், செய்கையும் குறித்து
 எழுதுக.
13. அ. 'நட்பு' குறித்து வேதாந்திரி மகரிஷி கூறும்
 கருத்துகளைக் குறிப்பிடுக.
 (அல்லது)
 ஆ. வள்ளுவர்தான் இல்லறம் வகுத்தார்
 என்பதற்குரிய காரணங்களை நிறுவுக.
14. அ. தமிழ் நாவலின் தோற்றம் பற்றி விளக்குக.
 (அல்லது)
 ஆ. நாட்டுப்புற இயலின் வகைகளைக் குறிப்பிடுக.
15. அ. எழுத்துப்பிழை நீக்கும் வழிமுறைகளைக்
 கூறுக.
 (அல்லது)
 ஆ. வலி மிகா இடங்கள் குறித்து எழுதுக.

பகுதி - இ (3X10=30)

- III. எவையேனும் மூன்று வினாக்களுக்கு விடையளி.
16. பாரதியார் உணர்த்தும் நாட்டுப்புறறையும், தேசிய
 ஒருமைப்பாட்டையும் விவரி.
 17. 'பாருக்குள்ளே நல்லநாடு' கவிதை உணர்த்தும்
 சமூக அவலங்களை விளக்குக.
 18. 'சங்க நெறிகள்' குறித்து வ.சுப. மாணிக்கம் தரும்
 கருத்துகளைத் தொகுத்துரைக்க.
 19. தமிழ்ச் சிறுகதையின் தோற்றமும் வளர்ச்சியும்
 குறித்துக் கட்டுரை வரைக.
 20. வலி மிகும் இடங்களைத் தக்க சான்றுகளுடன்
 நிறுவுக.

**MODEL EXAM – OCT-2018****NEW LITERATURES IN ENGLISH**

Class	: II M.A., ENGLISH	Marks	: 75
Paper Code	: 17PEN08	Time	: 3 Hrs

SECTION- A

I. Annotate any THREE of the following in about 150 words each: (5x3=15)

- 1) "The price seemed reasonable, location Indifferent. The landlady swore she lived Off premises"

(or)

"Hard on the mouthpiece 'WHAT'S THAT?' conceding 'DON'T KNOW WHAT THAT IS.' 'Like brunette.' 'THAT'S DARK, ISN'T IT?'"

- 2) "And the great earth, with neither grief nor malice, Receives the tiny burden of her death".

(or)

"And day by day the whisper of love grows stronger; That delicate voice, more urgent with despair, Custom and fear constraining her no longer".

- 3) "to red, the color of their saris, the marriage mark on their foreheads, we hold it carefully inside"

(or)

"When the grey lake-water rushes Past the dripping alder-bushes, And the bodeful autumn wind"

- 4) "You shall remain lowest forever. This means the struggle between Hindus and Untouchables shall continue forever. How will you survive through this struggle is the main question"

(or)

"There are two ways of achieving equality. One, by remaining in the Hindu fold and another by leaving it by conversion. If equality is to be achieved by remaining in the Hindu fold"

To talk of annihilating caste is like talking of changing the poison into amrit....sense of discrimination on account of caste, which is deeply rooted in our minds"

(or)

"She is a large woman in the dangerous forties, ripe and bursting. Her hair still black is swept up untidily"

SECTION - B

II. Answer All the questions in about 250 words each: (5x6=30)

- 6) Summarize the major ideas reflected in the poem 'Judas.'

(or)

Critically analyze the poem 'The Kittens.'

- 7) Sketch the character of Alma Lusty.

(or)

Sketch the character of Joseph.

- 8) Justify the title *Clothes*.

(or)

"The age-old search for values by which one can live in the world"-Discuss.

- 9) Give short note on *Among Pigeons*.

(or)

Explain Ahmed Ali is a Progressive Poet in Pakistan.

- 10) List out the themes of *The Masquerade*.

(or)

Write a critical appreciation on Arasanayagam's 'In the Month of May'

SECTION - C

III. Answer any THREE of the following in about 500 words each: (3x10=30)

- 11) 'Telephone Conversation' reflects the theme of 'racial prejudice' - Elucidate.

- 12) Write an essay on Maki Kureshi's poetry with reference to 'The Kittens.'

- 13) *The Ham Funeral* is a tragicomic drama- Demonstrate.

- 14) *Clothes* is a tale of young Indian woman- Exhibit your answer.

- 15) Write a short note on the following:

- Class Struggle.
- Three types of strength
- No Equality in Hinduism
- Poona Pact
- Conversion brings Happiness
- "Three factors are required for the uplift of an individual. They are: Sympathy, Equality and Liberty"- Comment.



தொன் போஸ்கோ கல்லூரி

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(அல்லது)

ஆ) 'விடியுமா' ஂன்று கதையில் வீட்டிலிருப்பவர்கள் அடைந்த வேதனையை விவரி.

இலங்கலை முதலாமாண்டு - இரண்டாம் பருவம்

கழற்சித் தேர்வு - (பிப்ரவரி - 2019)

தான் -2- இடைக்கால இலக்கியங்களும்

சிறுகதையும்

காலம் : 2 மணி நேரம்

மதிப்பெண் : 50

17UFTA02

பகுதி - அ

I. அனைத்து வினாக்களுக்கும் விடையளி. (5X2=10)

1. 'காலனும் கிழவியும்' சிறுகதையின் ஆசிரியர் யார்?
2. வானத்தைப் பார்த்துக்கொண்டிருந்த குழந்தை எதற்காக அழத்தொடங்கினான்?
3. சைவ சமயக்குறவர்கள் யாவர்?
4. சைவ மடங்கள் சிலவற்றின் பெயர்களைக் குறிப்பிடுக.
5. 'பெரிய நாயகி உலா' ஂன்று கதை உணர்த்தும் செய்தி யாது?

பகுதி - ஆ

II. அனைத்து வினாக்களுக்கும் விடையளி. (4X5=20)

6. அ) மருதாயிக் கிழவியின் வாழ்க்கையைப் புதுமைப்பித்தன் ஂவ்வாறு வருணித்துள்ளார்?

(அல்லது)

ஆ) பெரிய நாயகி உலாவில் கண்ட காட்சிகளை விவரி.

7. அ) குழந்தை ரோகிணி கண்டு ரசித்த மாலை நேரத்தை வருணித்து எழுதுக.

8. அ) குழந்தைகள் புத்தகத்திற்காகச் செய்த செயல்களை 'அன்பளிப்பு' சிறுகதை வழியாக உணர்த்துக.

(அல்லது)

ஆ) தமிழில் தோன்றிய ஐந்திலக்கண நூல்கள் குறித்து எழுதுக.

9. அ) ஆண்டாளின் பக்திச் சிறப்பினைப் புலப்படுத்துக.

(அல்லது)

ஆ) திருவாவடுதுறை மடத்தின் தமிழ்ப் பணிகளை விளக்குக.

பகுதி - இ

III. எவையேனும் இரண்டனுக்கு விடையளி. (2X10=20)

10. 'விடியுமா' ஂன்று சிறுகதையின் தலைப்புப் பொருத்தம் குறித்து ஆராய்க.
11. 'காலனும் கிழவியும்' சிறுகதையைத் திறனாய்வு செய்க.
12. பன்னிரு திருமுறைகள் குறித்துக் கட்டுரை வரைக.
13. பன்னிரு ஆழ்வார்களின் பக்திச் சிறப்பினைப் புலப்படுத்துக.



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CYCLE TEST – FEBRUARY - 2019

MICROPROCESSOR AND ITS APPLICATIONS

Class : III B.Sc. PHYSICS Marks : 50

Paper Code : 12UPHS06 Time : 2 Hrs

SECTION – A

I. Answer any FIVE questions: (5x2=10)

1. Write a note on 8085 μ P.
2. Define stack pointer in 8085 μ P.
3. Give a short note on Mnemonics.
4. Summarize the operations of ALU in μ P.
5. What is meant by polling?
6. Solve the arithmetic operations.
A) $(4F)_{16} + (DE)_{16}$
B) $(BA)_{16} - (A3)_{16}$
7. What do you know about Op-Code?
8. State program counter.

SECTION – B

II. Answer ALL questions: (4x5=20)

[Q. No. 9 compulsory]

9. Develop an assembly program for 8 bit multiplication and store the result in $(8D07)_{16}$.

10. a) What are the addressing modes of 8085 μ P?
(or)

b) Discuss about the interrupts of 8085 μ P.

11. a) Write a note on peripheral interfacing unit in 8085 μ P.

(or)

b) Draw a flow chart for 8 bit multiplication.

12. a) Write a program and flow chart for 8-bit Addition.

(or)

b) Give a program with flow chart for 8-bit Subtraction.

SECTION – C

III. Answer any TWO questions: (2x10=20)

13. Write a program and flow chart for 8-bit division.
14. Explain the instruction set of 8085 μ P.
15. Discuss about the instruction format and assembly language programming of 8085 μ P.



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SECTION – B

CYCLE TEST – FEBRUARY-2019

HEALTH AND HYGIENE

Class : I MSW Marks : 50
Paper Code : 17PSW09B Time : 2 Hrs

SECTION – A

Answer all the questions: (4 x 5 = 20)

1. a) Define health and its relationship to welfare.
(or)
b) Examine the factors influencing the health status of individual.
2. a) Write a short note on vital health statistics.
(or)
b) Explain how nutrition is important for health.
3. a) What do you mean by malnutrition? Write any two disease caused by malnutrition.
(or)
b) What is balanced diet?
4. a) Elucidate the changing concept of health.
(or)
b) What do you understand by the concept of well-being.

Answer all the questions: (3 x 10=30)

5. a) Discuss the determinants of health..
(or)
b) Describe the comprehensive health care indicators.
6. a) Discuss the sources of dietary fibre in food and what are its function.
(or)
b) Mention the sources, function and deficiency caused by vitamin A.
7. a) Discuss the factor involved in the process of disease transmission.
(or)
b) Mention the sources and function of protein.



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CYCLE TEST – FEBRUARY – 2019 AMERICAN LITERATURE

Class	: III B.A.ENG	Marks	: 50
Paper Code:	12UENE02	Time	: 2 hrs

SECTION – A

I. Answer any five of the following questions

(5x3=15)

1. What was the opinion about the novel in the past?
2. How is art considered in the Protestant communities?
3. How does James distinguish novels?
4. Where does the young man search for his lady love?
5. Why does the young man kill himself?
6. What was Rosicky's opinion about the city people?
7. Write a note on Polly.

SECTION – B

II. Answer any three of the questions briefly in about 200 words: (3x5=15)

8. Bring out the comparison between a Novel and a Painting.
9. According to James, what are the features of a good novel.
10. Give a description of the previous tenants of that room.
11. Describe the difference between the country grave yard and the city cemeteries.

SECTION – C

III. Answer any two questions in about 500 words each: (2x10=20)

11. Attempt a critical appreciation of Henry James's *The Art of Fiction*.
 12. Elaborate the tragic end of the young man in *The Furnished Room*.
 13. Sketch the character of Rosicky.
-



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CYCLE TEST – FEBRUARY 2019 PRINTING MACHINERY MAINTENANCE

Class : III B.Sc. DPM Marks : 50
Paper Code : 12UDPE02 Time : 2 Hrs

SECTION- A

I. Answer any FIVE questions: (5X2=10)

1. What is maintenance?
2. Mention the types of maintenance.
3. Define contract maintenance.
4. State the equipments needed for erection.
5. What are the procedure needed for the test run?
6. State the principles of reconditioning.
7. Mention the defects of the gear.
8. What is man power planning?
9. Define lubrication.
10. State the types of lubrication.

SECTION- B

II. Answer ALL the questions: (4X5=20)

11. a) Explain the maintenance planning, scheduling and control.

(or)

- b) Elucidate the contract maintenance.
12. a) Describe the principles of machinery erection.

(or)

- b) Test run - Explain elaborately.
13. a) Write in detail on replacing the worn out parts.

(or)

- b) Explicate the reconditioning of various machine parts.
14. a) Explain the principles of lubrication.

(or)

- b) Describe the annual lubrication and replacement schedule.

SECTION-C

III. Answer any TWO questions: (2X10=20)

15. Explain the types of maintenance activities.
16. State the principles and methods of machine reconditioning.
17. Elaborate the lubrication chart.



CYCLE TEST-FEBRUARY- 2019
RELATIONAL DATABASE MANAGEMENT
SYSTEM

Class	: III B.Sc.CS	Time	: 2Hrs
Paper code	: 12UCS09	Marks	: 50

SECTION – A (5 x 2 =10)

I. Answer any five questions:

1. Define triggers.
2. Expand BCNF.
3. What is a Schema?
4. Mention some constraints in database.
5. Term query.
6. Delineate entity and entity set.
7. Write note on Normalization.
8. What is the use of NULL value?

SECTION – B (4 x 5 = 20)

II. Answer all the questions:

9. a) Give an overview of referential integrity.
(or)
b) Describe an assertion and trigger

10. a) Explain an authorization in SQL.
(or)

- b) Illustrate authentication in SQL.

11. a) Write about pitfalls in database design.
(or)

- b) Discuss nested sub-queries.

12. a) Demonstrate first normal form in RDBMS.

(or)

- b) Elaborate functional dependencies in second normal form.

SECTION – C (2 x 10 = 20)

III. Answer any two questions:

13. What do you mean by constraints? Explain.
14. Elucidate SQL queries for DDL and DML.
15. Illustrate third normal form with example.
16. Write a detailed note on Relational algebra.



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CYCLE TEST FEBRUARY - 2019 SBEC V – SOFT SKILLS

Class : III BCA Marks : 50
Paper Code : 12UCAS05 Time : 2 Hrs

SECTION – A

I. Answer any five questions (5 x 2 = 10)

1. Describe the term "job interview".
2. Define interview process.
3. Distinguish between learned skills and intuitive skills.
4. List the types of interview questions.
5. Define conversation.
6. What is a group discussion?
7. Differentiate between group discussion and debate.
8. List out the steps in group discussion.
9. What are the skills required for group discussion?
10. What do you mean by body language?

SECTION – B

II. Answer ALL the questions (4 x 5 = 20)

11. a) Mention the characteristics of the job interview.
(or)
b) Explain briefly frequently asked interview questions.

12. a) Discuss about good manners and positive behaviour of interviewer.
(or)
b) What are the alternative interview formats?

13. a) Mention different strategies in group discussion.
(or)
b) Explain the importance of group discussion.

14. a) Discuss about leadership skills in group discussion.
(or)
b) How to exchange suggestions and proposals in GD?

SECTION – C

III. Answer ALL the questions (2 x 10 = 20)

15. a) Explain the pre-interview preparation techniques.
(or)
b) How to project a positive image of the employer?
16. a) Illustrate the characteristics of a successful group discussion.
(or)
b) Explain selection group discussion.



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CYCLE TEST – FEBRUARY 2019 PROJECT METHODOLOGY

Class :II B.Com-/II B.Com C.A. Max. Marks : 50
Paper Code : 17UCMS02/17UCCS02 Time:2Hrs

SECTION – A

I. Answer any FIVE Questions: (5 x 2 = 10)

1. What do you mean by project?
2. State any two objectives of project.
3. Write any four good qualities of project.
4. Write a short note on research problem.
5. What are the contents of review?
6. Define – Sampling.
7. Where is secondary data collected?
8. Write a short note on Trend analysis.

SECTION – B

II. Answer ALL questions: (4 x 5 =20)

9. a. Mention the features of project.
(or)
b. What are the objectives of project?

10. a. Discuss steps to formulate project problem.
(or)
b. Explain research problems in marketing.
11. a. Discuss the purpose of the literature review.
(or)
b. Write a note on primary and secondary data.
12. a. Describe the characteristics of good sample.
(or)
b. What is interpretation of data?

SECTION – C

III. Answer any TWO Questions: (2 x 10 =20)

13. How will you distinguish between thesis and dissertation
14. Discuss the common problems encountered by researchers in India.
15. What are the methods of data collection?



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CYCLE TEST – FEBRUARY-2019 BUSINESS MANAGEMENT

Class	: I B.Com	Max. Marks	: 50
Paper Code	: 17UCM04	Time	: 2 Hrs

SECTION – A

I. Answer any FIVE questions: (5 x 2 = 10)

1. Define organization.
2. Give the meaning of organization.
3. Who is a leader?
4. Give the meaning of authority.
5. How do you define directing?
6. What is motivation?
7. What is meant by delegation?
8. State any two types of organization.

SECTION – B

II. Answer ALL the questions: (4 x 5 = 20)

9. a) What are the benefits of organization?

(or)

- b) List out factors determining span of Control.

- 10.a) Explain the nature of an organization.

(or)

- b) Trace the importance of organization.

- 11.a) Illustrate the functions of a leader.

(or)

- b) Compare and contrast between delegation and decentralization.

- 12.a) Give merits and demerits of the decentralization demerits

(or)

- b) Outline the basic principles of organization.

SECTION – C

III. Answer any TWO questions (2 x 10 = 20)

13. Differentiate delegation and decentralization.
14. Explain the essential qualities of a good leader.
15. Describe the principles of organization.
16. Explain the different types of leader.



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CYCLE TEST FEBRUARY - 2019 SERVICE MARKETING

Class	: II M.Com.	Max Marks: 50
Paper Code: 17PCM14		Time : 2 Hrs

SECTION – A

I. Answer ALL the questions (4×5=20)

1. a) Explain the importance of service marketing.
(or)
b) Educate the features of services marketing.
2. a) Discuss the merits of road transport.
(or)
b) Describe the demerits of railway transport.
3. a) Explain the advantages of air transport.
(or)
b) Educate the demerits of water transport.

4. a) Discuss the advantages of tourism.
(or)
b) Describe the users of tourism services.

SECTION – B

II. Answer ALL the questions (3×10=30)

5. a) Explain the classification of services.
(or)
b) Educate the marketing mix for road transport.
6. a) Discuss the marketing mix for tourism.
(or)
b) Describe the marketing mix for railway transport.
7. a) Explain the marketing mix for air transport.
(or)
b) Educate the types of mutual funds.



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CYCLE TEST – FEBRUARY – 2019 FOOD AND NUTRITION

Class : I B.Sc. Chem

Marks: 50

Paper Code: 17UCHS01

Time : 2 Hrs

SECTION – A

Answer any FIVE questions: (5x2=10)

1. Classify the Vitamins.
2. What is meant by scurvy?
3. Mention the source of Vitamin-A.
4. Give any two example for biological function of Magnesium.
5. Define Adulteration.
6. Indicate any two food adulterants.
7. Narrate the causes of Dyspepsia.
8. Write any two causes of sodium deficiency.

SECTION – B

Answer ALL the questions: (4x5=20)

9. a) Explain the sources and deficiency diseases of Vitamin-E.
(or)
b) State the deficiency diseases caused by Vitamin-B₁ and B₂.

10. a) Elaborate the deficiency and daily requirements of Vitamin-D
(or)
b) Illustrate the source and daily requirements of Mg.
11. a) Describe the causes of Acidity.
(or)
b) Predict the causes and remedies for Constipation.
12. a) Discuss bacterial food poisoning.
(or)
b) Outline the types of food adulteration.

SECTION – C

Answer any TWO questions: (2x10=20)

13. Construct the source and biological importance of Iron and Potassium.
14. Write an essay on sources biological functions and deficiency diseases of vitamin C and Sulphur.
15. Elaborate the effects and detection of Food Adulterants.



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CYCLE TEST – FEBRUARY 2019 PHYSICAL CHEMISTRY - II

Class : I M.Sc Chem. Marks : 50
Paper Code : 17PCH05 Time : 2 Hrs

SECTION – A

Answer ALL the questions: (4×5=20)

- a) Discuss the origin of quantum numbers.
(or)
b) Identify the ground state term symbol for Fe^{2+} and Fe^{3+} atom.
- a) Explain the distribution of distinguishable and Non-distinguishable particles.
(or)
b) Elaborate a notes on LS coupling and JJ coupling.
- a) Describe the acid base catalysis and its Kinetics.
(or)
b) Derive the mechanism of Michaelis menton equation with effect of pH and its temperature.

- a) Write a symmetry and selection rule for electronic spectra.

(or)

- b) Give the symmetry of hybrid orbital in XeF_4 molecule.

SECTION – B

Answer ALL the questions: (3×10=30)

- a) Derive the application of schrodinger equation in hydrogen atom.
(or)
b) Explain the application of helium atom in perturbation method.
- a) Discuss the application of variation method to hydrogen atom.
(or)
b) How will you determine the vibrational modes in ammonia?
- a) Give the symmetry of hybrid orbitals in CH_4 and PCl_5 molecules.
(or)
b) Write the method of determination in vibrational modes of water.



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CYCLE TEST - FEBRUARY - 2019 ORGANIC CHEMISTRY-II

Class	: III B.Sc. Chem.	Marks	: 50
Paper Code:	12UCH08	Time	: 2 Hrs

SECTION - A

Answer any FIVE questions: (5x2=10)

1. Give two examples for monosaccharides and disaccharides.
2. What is mutarotation?
3. Define the term Osazone formation.
4. Show that sucrose is a non-reducing sugar.
5. Mention the number of asymmetric carbons in the open chain of glucose and fructose.
6. Indicate any two polysaccharides.
7. Write the structure of cellulose.
8. Draw the constitution of glucose.

SECTION - B

Answer ALL the questions: (4x5=20)

9. (a) Give any five reactions of fructose.
(or)
(b) Justify the classification of carbohydrates.

10. (a) What is Haworth's projection formulae.
(or)
(b) Write a note on determination of ring size.
11. (a) Construct the structural elucidation of starch.
(or)
(b) Explain the important applications of cellulose.
12. (a) What are epimers? Give example with their structure.
(or)
(b) How is glucose converted to fructose?

SECTION - C

Answer any TWO questions: (2x10=20)

13. Discuss the constitution of glucose.
14. Elaborate the osazone formation and mutarotation in glucose and fructose.
15. Outline the structural elucidation of sucrose.



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CYCLE TEST - FEBRUARY 2019 INORGANIC CHEMISTRY – II

Class : III B.Sc. Chem. Marks: 50
Paper Code : 12UCH07 Time : 2 Hrs

SECTION – A

Answer ANY FIVE questions: (5X2=10)

1. What is meant by metal excess defect?
2. Define crystal defect.
3. How will you identify conductors?
4. Give the comment and examples of Semiconductors.
5. What are nanomaterials?
6. Draw the structure of metal deficiency defect.
7. Write the types of symmetry elements.
8. Find out the point group of CO_2 .
9. State magnetic susceptibility.
10. What is diamagnetism?

SECTION – B

Answer ALL the questions: (4X5=20)

11. a) Describe the band theory of conductors.
(or)
b) Write account on nanomaterials.

12. a) Illustrate the consequences of Stoichiometric and Non stoichiometric Crystal defects.

(or)

- b) Outline about the insulators and semiconductors

13. a) Discuss about the Symmetry of elements with Symmetry operations.

(or)

- b) Define point group. Identify the point of H_2O and PCl_5 .

14. a) Differentiate between diamagnetism and paramagnetism.

(or)

- b) Write the Symmetry elements present in HCl and NH_3 molecules and give their Point groups.

SECTION – C

Answer ANY TWO questions: (2X10=20)

15. Explain the defects in crystals.
16. Write notes on ferromagnetism and antiferromagnetism.
17. How will you determine the magnetic moment by using Guoy's balance?



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CYCLE TEST- FEBRUARY – 2019 MONEY BANKING AND GLOBAL BUSINESS

Class : II BBA **Marks : 50**
Paper Code : 17UECA04 **Time : 2 Hrs**

SECTION – A

I Answer any five questions: (5X2=10)

1. Define inflation.
2. What is deflation?
3. Mention any two kinds of inflation.
4. Write a brief note on cost push inflation.
5. Enumerate money market.
6. Explain capital market.
7. State the purpose of London market.
8. List out the kinds of banking.
9. Expand: commercial banks function.
10. Bring out the concept of other financial institutions.

SECTION – B

II Answer the following questions: (4X5=20)

11. a) State various types of inflation.
(or)
b) Difference between inflation and deflation.

12. a) What are the characteristics of inflation?
(or)

b) Explain phrase of trade cycle.

13. a) Write a short note on monetary policy.
(or)

b) Differentiate between money market and capital market.

14. a) Bring out the importance of capital market.
(or)

b) List out the various instruments of new york money market.

SECTION – C

III Answer the following questions: (2X10=20)

15. a) Bring out the effect of inflation.
(or)

b) Discuss controlled inflation in detail.

16. a) Briefly discuss about the capita market functions.
(or)

b) Describe the structure and working of the London money market.



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CYCLE TEST - FEBRUARY- 2020 FINANCIAL INSTITUTIONS AND SERVICES

Class : III BBA Marks : 50
Paper Code : 12UBA16 Time : 2 Hrs

SECTION – A

I Answer any five questions: (5X2=10)

1. What is underwriting?
2. Expand SIDC's.
3. State EXIM Bank.
4. What do you mean by Venture capital?
5. Enumerate State Finance Corporation.
6. Write a note on ICICI.
7. Mention any two objectives of NSE.
8. Explain OTCEL.
9. Name the institutions promoted by TIIC.
10. List any two functions of DFHI.

SECTION – B

II Answer the following questions: (4X5=20)

11. a) Bring out the features of NSE.
(or)
b) State the objectives of IDBI.
12. a) Explain the powers of SEBI in relation to stock exchange.

(or)

- b) Write the objectives of SEBI.
13. a) What are the characteristics of securities exchange board of India.

(or)

- b) Explain the importance of SFC.
14. a) Enumerate the activities of discount and finance house of India.

(or)

- b) Describe the services provided by SIDC's.

SECTION – C

III Answer the following questions: (2X10=20)

15. a) Briefly explain the functions of IDBI.

(or)

- b) Enumerate the services provided by IFCI.

16. a) Bring out the primary and secondary functions of ICICI.

(or)

- b) Describe the various functions of SEBI.



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CYCLE TEST FEBRUARY – 2019 FINANCIAL ACCOUNTING

Class : I BBA **Marks: 50**
Paper Code : 17UBAE01 **Time : 2 Hrs**

SECTION – A

Answer any five questions: (5X2=10)

1. What is hire purchase?
2. Define bill of exchange.
3. Explain hire vendor.
4. What do you mean by drawer?
5. Write a short note on accommodation bill.
6. State the installment purchase.
7. Discuss the purchase and seller.
8. What do you understand by drawee?
9. Give the meaning of the renewal.
10. What are the different methods of calculation of interest?

SECTION – B

Answer the following questions: (4X5=20)

11. a) Enumerate the methods of computing interest under hire purchase system.
(or)
- b) Briefly explain about the formation of accounting standard board.
12. a) Distinguish between hire purchase system and instatement purchase system.
(or)

- b) What are the characteristics of bill of exchange?
13. a) Discuss the scope of accounting standard.
(or)
- b) How will you ascertain cash price? When it is not given?
14. a) What are the salient features of bill of exchange?
(or)
- b) Write a note on the significance of accounting standards.

SECTION – C

Answer the following questions: (2X10=20)

15. a) Briefly explain the function of the accounting standards board(ASB).
(or)
- b) On 1-1-18 X purchase machinery on hir purchase system the payment is to be made Rs.4,000 down (on signing of the contract) and Rs.4,000 annually for three year. The cash price of the machinery is Rs.14, 900 and the rate of interest is 5% Calculate the interest in cash year installment.
(or)
16. a) What are the benefits of books in draw and drawee
(or)
- b) On 1-1-1999, jayanthi sold goods to Devi of credit for Rs.2,000 and drew a bill on Devi for Rs.2,000 for 3 months after date. Devi accepted it on 3-1-1999 and returned it to jayanthi on maturity, the bill was duly honoured by Devi. Pass journal entries in the books of both the parties.



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CYCLE TEST FEBRUARY – 2019 EXPORT IMPORT DOCUMENTATION & PROCEDURES

Class	: II BBA	Marks	: 50
Paper Code	: 17UBAS04	Time	: 2 Hrs

SECTION – A

Answer any five questions; (5X2=10)

1. What is custom clearance?
2. Explain export documentation.
3. What you meant by shipping bill?
4. Discuss GR-I form.
5. What do you understand by bill of exchange?
6. Write a short note on bill of lading.
7. State the export invoice.
8. Give the meaning of clearing agents.
9. Distinguish export and import?
10. Define world shipping.

SECTION – B

Answer the following questions; (4X5=20)

11. a) Explain the stages of customs clearance.
(or)
b) Discuss the importance of export documents.

12. a) Bring out the functions of customs clearance.
(or)
b) Describe the negotiable instruments bill of lading.
13. a) What are the advantages and disadvantages of export order?
(or)
b) Briefly explain the importance of export order.
14. a) Describe types of bill of lading.
(or)
b) List out the types of world shipping.

SECTION – C

Answer the following questions; (2X10=20)

15. a) Describe the various types of bills used in bill of exchange.
(or)
b) What are the objectives of the customs control?
16. a) Briefly explain the regulatory documents.
(or)
b) Explain in the procedures of export order.



CYCLE TEST FEBRUARY – 2019 ADVERTISING

Class	: II DPM	Marks	: 50
Paper Code	: 12UBAA07	Time	: 2 Hrs

SECTION – A

Answer any five questions; (5X2=10)

1. Define promotion mix
2. What is sales promotion?
3. Explain personal selling.
4. What do you mean by advertising?
5. Write a short note on advertising copy.
6. Mention the stages of promotion mix?
7. State the AIDAS.
8. Discuss about marketing mix.
9. What do you understand by price?
10. Give the meaning of commercial advertising.

SECTION – B

Answer the following questions; (4X5=20)

11. a) What are the characteristics of sales promotion?
(or)
b) Describe elements of advertising copy.

12. a) Explain the good aspects of advertisement copy
(or)
b) Bring out the need for marketing mix.

13. a) Discuss about functions of social advertising.
(or)
b) List out the types of advertising research.

14. a) What are the benefits of advertising?
(or)
b) Discuss about the process of advertising.

SECTION – C

Answer the following questions; (2X10=20)

15. a) Briefly explain the objectives of promotion mix.
(or)
b) What are the types of pricing?
16. a) Describe the functions of advertising.
(or)
b) Discuss in detail about the objectives of advertising.



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CYCLE TEST - 2019 PROBABILITY THEORY

Class : B.M.Sc. Maths

Max.Marks: 50

Paper Code : 17PMA13

Time : 2Hrs

SECTION – A

I. Answer ANY FIVE questions:

(5 X 2 = 10)

1. Define standardized random variable.
2. State the types of event
3. Define probability generating function.
4. What do you mean by marginal distribution?
5. Explain random variable.
6. Show that $E(aX+b) = aE(X)+b$.
7. Define absolute moments
8. Explain semi – invariants.
9. Define characteristic function.
10. Explain conditional probability.

SECTION – B

II. Answer All the questions.

(4 x 5 = 20)

11. (a) If X and Y are independent random variables, prove that

$$F(x,y) = F_1(x) \cdot F_2(y)$$

(or)

- (b) State and prove the properties of expected values.

12. (a) The random variable X takes the value 2 and 4 with probabilities $P(X=2) = 0.2$ and $P(X=4) = 0.8$. Then find $E(X)$ and $E(X^2)$.

(or)

- (b) State and prove Tchebychev's inequality.

13. (a) State and prove properties of characteristic function.

(or)

- (b) Show that the coefficient correlation satisfies the double inequality $-1 \leq \rho \leq 1$.

14. (a) State and prove properties of characteristic function.

(or)

- (b) Show that the coefficient correlation $\rho \pm 1$

SECTION – C

III. Answer ANY TWO questions.

(2 X 10 = 20)

15. State and prove Liapouov inequality.

16. Find the p.d.f of random variable X whose characteristic function is

$$\phi(t) = e^{-|t|^2}$$

17. Find the characteristic function of normal distribution.

----- All the Best -----

**MODEL EXAM - 2019
THE VICTORIAN AGE**

Class : I M.A. ENGLISH

Mark: 75

Paper Code : 17PEN05

Time : 3 hrs

SECTION – A (5X3=15)**I. Annotate ALL the following :**

1. a) "Time to taste life" another would have said,
Up with the curtain!"
(or)
- b) Sleep, crop and herd! sleep, darkling thrope
and croft,
Safe from the weather!
2. a) I ask but that my death may find
The freedom to my life denied;
Ask but the "folly of mankind",
Then, at last, to quit my side.
(or)
- b) Nor bring, to see me cease to live,
some doctor full of phrase and fame,
To shake his sapient head and give
The ill he cannot cure a name.
3. a) "It is my kiss that saved her life".
(or)
- b) "The little girl in the bed is my baby".
4. a) A desirable young man? Dust and ashes?
"I see nothing desirable but death".
(or)
- b) "To be nailed to a continuation and
exaggeration of my present life"
5. a) He was one of the great Anglican churchmen
who made up of the Oxford Movement.
(or)
- b) He is most famous as the headmaster of Rugby
school.

SECTION – B (6X5=30)**II. Answer the following questions:**

6. The poem "Tithonus" was
dedicated to whom and why.
(or)
- b) Describe the theme of the poem "The Darkling
Thrush".
7. a) Explain briefly the theme of a mother in
Swinburne's poem
(or)
- b) Discuss the feeling of duchess in Browning
poem.
8. a) Write a brief note on "After Death".
(or)
- b) Explain the feeling of the Lady love in the
Poem of "After Death".
9. a) Write the adventures in the play "Peter Pan".
(or)
- b) Sketch the character of Christy.
- 10 a) Write a short note on Thomas Arnold.
(or)
- b) Write the biography of Goldsmith.
- 11 a) Sketch the character of Heathcliff.
(or)
- b) Write a brief note on "Middlemarch"

SECTION – C (3X10=30)**III. Answer any THREE of the following questions**

12. Differentiate the thoughts of students and
Grammarian
13. Enumerate the thirst of Hardy in "The Darkling
Thrush".
14. Discuss the play "Peter Pan".
15. Comment on "The Wuthering Heights".
16. Discuss the contribution of Florence
Nightingale in Victorian age.



**MODEL EXAM – MARCH 2019
MULTIMEDIA PACKAGE**

Class : I - DPM Mark : 75
Paper code : 17UDPS01 Time : 3 hrs.

SECTION – A

I. Answer all the questions. (10x2=20)

1. Define the functions of flash.
2. Explain time line.
3. What are the system requirements for flash?
4. Why pen tool used in flash?
5. Write the elements of time line.
6. Mention some tools name used in flash.
7. State the different elements of time line.
8. Why viewing options are important in flash?
9. What are stage and overlay objects?
10. How to convert objects to symbols in flash?

SECTION – B

II. Answer the following questions. (5x5=25)

11. (a) Explain the installation of flash.
(or)
(b) What is the free transform tool?

12. (a) Why Grouping objects are used in flash?
(or)
(b) Enumerate the stage and overlay objects.
13. (a) How can you work with layers in flash?
(or)
(b) State the importance of tools and tool bars.
14. (a) Explain the flash environment.
(or)
(b) What are the system requirements to installing flash?
15. (a) Write grouping objects and it's uses of flash.
(or)
(b) Explain working with frames in detail.

SECTION – C

III. Answer any three questions. (3x10=30)

16. How to add, delete and copy frames in flash?
17. Explain the elements of animation.
18. How to create motion tweening? Give some examples.
19. Write about tools and tool bar.
20. Describe about the menu bar.



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MODEL EXAM – MARCH 2019

FILM ASSEMBLY AND PLATE MAKING

Class : II DPM Max mark : 75
Paper Code: 17UDP07 Time : 3 Hrs.

SECTION – A

I. ANSWER ALL THE QUESTIONS. (10x2=20)

1. Define film image assembly.
2. What are the various methods of obtaining positive film elements?
3. Narrate the importance of planning.
4. Write short notes on manilla paper.
5. Explain the polyester sheet.
6. Narrate the use of pin register.
7. What is the purpose of star target?
8. Mention a few chemicals used in plate making.
9. State the plate making process.
10. Mention the types of plates available in printing industry.

SECTION – B

II. ANSWER ALL THE QUESTIONS. (5x5=25)

11. (a) Explain briefly about film image assembly and the main printing process.
(or)
(b) Narrate film assembly and finishing operations in offset.

12. (a) Draw the 16 page portrait imposition scheme for half sheet work.

(or)

- (b) What do you mean by sheet work? Explain work and tumble.

13. (a) Briefly explain about the operations in projection plate maker system.

(or)

- (b) Give a brief explanation on preparation of film assembly for litho graphic process.

14. (a) Write few problems and remedies during plate making process.

(or)

- (b) Detail about quality control.

15. (a) Explain the steps for wipe- on and PS plates.

(or)

- (b) Write a short note on automatic plate making process.

III. ANSWER ANY THREE QUESTIONS.

(3x10=30)

16. Explain briefly film image assembly and the main printing process with diagrams.
17. Discuss about the computer - aided masking systems.
18. Explain in detail Plate making process with diagrams.
19. Give a note on pin register system.
20. Describe in detail negative film assembly on golden rod paper.



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MODEL EXAM – 2019 DESIGNING AND PLANNING FOR PRINT PRODUCTION

Class	: II B.Sc DPM	Mark: 75
Paper code	: 17UDP06	Time : 3 hrs.

SECTION – A

I. Answer all the questions. (10x2=20)

1. What is a design?
2. State the principles of symmetrical and asymmetrical arrangements.
3. Define layout preparation and dummy.
4. What are the typographic fundamentals?
5. Why colour is important in printing?
6. Name ten fonts name.
7. Write the types of work involved in pre-press?
8. State the different types of proof stages.
9. What is colour?
10. Describe warm and cool colour.

SECTION – B

II. Answer the following questions. (5x5=25)

11. (a) Explain the work of contrast in design.
(or)
(b) Write about colour elements.

12. (a) State the importance of book work typography .
(or)
(b) How far dummy and layout preparation plays vital role in press?
13. (a) Write the types and classification of magazine.
(or)
(b) Explain the parts of the news paper.
14. (a) What are the proof reading symbols, meanings and its importance?
(or)
(b) Explain the qualification of a proof reader.
15. (a) What are the advantages and disadvantages of second generation typesetters?
(or)
(b) Elaborate the history of typesetting.

SECTION – C

III. Answer any three questions. (3x10=30)

16. What are the design elements, which gives more effectiveness in design?
17. State the importance of legibility and readability.
18. Elaborate the parts of a book.
19. What are the principles of news paper layout design?
20. Explain the stages of proofs for different kinds of jobs.



தொன் போஸ்கோ கல்லூரி

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இளங்கலைத் தமிழ் முதலாமாண்டு
 இரண்டாம் பருவம் - மாதிரித் தேர்வு
 (மார்ச் - 2019)

தாள்: தமிழ் இலக்கிய வரலாறு

காலம்: 3 மணி தேர்வு - 17/18 A02 மதிப்பெண்: 75

பகுதி - அ

I அனைத்து வினாக்களுக்கும் விடையளி

(10x2=20)

1. சங்கம் இருந்தமைக்கான இலக்கியச் சான்றுகள் இரண்டு தருக.
2. எட்டுத் தொகையில் அக நூல்கள் எத்தனை? அவை யாவை?
3. இரட்டைக் காப்பியங்கள் யாவை? அவற்றை இயற்றியவர்கள் யாவர்?
4. தேவாரம் பாடியவர் எத்தனை பேர்? எத்தனை திருமுறைகள் பாடியுள்ளனர்?
5. திருவிளையாடற் புராணம் - குறிப்பு வரைக.
6. "குறவஞ்சிப் பாடியவர்" - விளக்கம் தருக.
7. சீகன் பால்கு ஐயர் - குறிப்பு வரைக.
8. தாயுமானவரின் தமிழ்ப் பணியைக் குறிப்பிடுக.
9. தேசிக விநாயகம்பிள்ளை - குறிப்பு வரைக.
10. தமிழ் நாடகத்தின் முன்னோடிகள் இருவரைக் குறிப்பிடுக.

பகுதி - ஆ

II அனைத்து வினாக்களுக்கும் விடையளி

(5x5=25)

11. அ. பதிற்றுப்பத்து - விளக்குக.
 ஆ. திருக்குறள் குறித்து எழுதுக.

12. அ. மதுரைக் காஞ்சி - நூலின் செய்தியை எழுதுக.

அல்லது

- ஆ. ஆண்டாள் பாடிய நூல்கள் பற்றி விளக்குக.
13. அ. பெரிய புராணம் பற்றி தெளிவாக எடுத்துரைக்க.
 அல்லது
 ஆ. சித்தர்கள் எத்தனை பேர்? அவர்களைக் குறிப்பிடுக.
14. அ. வீரமாமுனிவரின் படைப்புகள் பற்றி எடுத்துரைக்க.
 அல்லது
 ஆ. இஸ்லாமியரின் தமிழ்த் தொண்டினைக் குறிப்பிடுக.
15. அ. தமிழ் உரைநடையின் வளர்ச்சி நிலைகளைக் குறிப்பிடுக.
 அல்லது
 ஆ. நாடகத்தமிழ், கல்வெட்டியல் பற்றிக் குறிப்பு வரைக.

III. எவையேனும் மூன்றினுக்கு விடையளி

(3x10=30)

16. முச்சங்கம் பற்றி இலக்கிய வரலாற்று நோக்கில் கட்டுரை வரைக.
17. பதினெண்கீழ்க்கணக்கு நூல்கள் பற்றி விவரி.
18. புராணங்களின் தோற்றமும் வளர்ச்சியும் குறித்து விளக்கி எழுதுக.
19. 19ஆம் நூற்றாண்டில் தமிழ் வளர்ச்சி குறித்துக் கட்டுரை வரைக.
20. நாவல், சிறுகதை இலக்கியங்களின் தோற்றமும் வளர்ச்சியும் குறித்து விவரிக்க.



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MODEL EXAM- MARCH – 2019

MICROPROCESSOR AND ITS APPLICATIONS

Class : III B.Sc. PHYSICS Marks: 75

Paper Code : 12UPHS06 Time : 3Hrs

SECTION – A

I. Answer ALL the questions: (10x2=20)

1. What is meant by Microprocessor?
2. List out any three applications of μP .
3. What is ALU in μP ?
4. Write a note on Word length in 8085 μP .
5. State Mnemonics.
6. Why data bus is bidirectional?
7. Define program counter in 8085 μP .
8. Solve the arithmetic operations of
A) $(4F)_H + (DE)_H$ B) $(BA)_H - (A3)_H$
9. Arrange the hexadecimal numbers of DE, AE, AA, E7, 77 and B2 in descending order.
10. What are the uses of A/D conversion?

SECTION – B

II. Answer ALL the questions: (5x5=25)

11. a) What are the features of Microcomputer?
(or)
b) Elucidate the history of the μPs .

12. a) Explain the internal bus organization of 8085 μP .

(or)

- b) Give an account on Assembly language programming.
13. a) Discuss the addressing modes of 8085 μP .
(or)
b) Write a note on the interrupt subroutine of 8085 μP .
14. a) Write the μP program for the Addition and Subtraction.
(or)
b) Write the μP program to find the biggest number in an array.
15. a) Write the μP program to find sum of N numbers.
(or)
b) Write the μP program for A/D conversion.

SECTION – C

III. Answer any THREE questions: (3x10=30)

16. Illustrate the architecture of 8085 μP .
 17. Draw and explain the block diagram of 8085 μP .
 18. Elucidate the Instruction sets of 8085 μP .
 19. Write the μP program for 8-bit multiplication.
 20. Write the μP program to find ascending numbers in an array.
-



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MODEL EXAM - MARCH - 2019 SPACE SCIENCE

Class : I B.Sc. PHYSICS Marks: 75
Paper Code: 17UPHS01 Time : 3Hrs

SECTION - A

I. Answer ALL the questions: (10x2=20)

1. Define Universe.
2. State Magnetosphere.
3. What is meant by asteroids?
4. Write a note on comet.
5. Mention about the term constellations.
6. What do you know about galaxies?
7. Reason out the meaning of sunspot.
8. What is corona?
9. List out the origin of universe hypothesis.
10. Justify about the dark energy.

SECTION - B

II. Answer ALL the questions: (5x5=25)

11. a) Write a note on the planets of our solar system.
(or)
b) Explain the interior layers of earth.

12. a) What are the features of asteroids?
(or)
b) Extend the term "Meteors and Meteorites".
13. a) Justify chromosphere and photosphere of sun.
(or)
b) Discuss about the satellite of Jovian planets.
14. a) Draw and explain the life cycle of stars.
(or)
b) Mention any three types of galaxies.
15. a) Summarise the concept of Big bang theory.
(or)
b) Explain the composition of expanding universe.

SECTION - C

III. Answer any THREE questions: (3x10=30)

16. Explain the regions in atmosphere of earth.
 17. Draw and explain the composition of comet.
 18. Illustrate the interior of sun.
 19. Write about the star cluster and globular cluster in detail.
 20. Elucidate any two theoretical ideas behind the origin of universe.
-



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MODEL EXAM - 2019

PSYCHIATRIC SOCIAL WORK

Class : II MSW Marks : 75
Paper Code : 17PSWI4B Time : 3 Hrs

SECTION – A

Answer all the questions: (5x 5 = 25)

1. a) Explain the mental health problem in aged.
(or)
b) Examine the various problems faced by disaster victims.
2. a) Explain the role of psychiatric social worker in hospital setting.
(or)
b) How to collaborate mental health with other organization.
3. a) Briefly explain crisis intervention.
(or)
b) Explain the need of family centred treatment.
4. a) Write the objectives of child guidance clinics.
(or)
b) Write a short note on cerebral palsy.
5. a) Explain the treatment process in SCARF.
(or)
b) Explain the various principles in psychological rehabilitation.

SECTION – B

Answer all the questions: (5 x 10=50)

6. a) Explain the scope of social work in mental health.
(or)
c) Discuss in detail the mental health problems among women.
7. a) Explain the new avenues to mental health.
(or)
b) Enumerate the social work practice in non psychiatric setting.
8. a) Discuss about behaviour modification and cognitive therapy.
(or)
b) Describe the psychoanalytical treatment techniques.
9. a) Discuss the role of social worker with rape victims.

b) Elucidate the role of social worker in child guidance clinics.
10. a) Is psychiatric social work a recognized profession in India? What is the status of psychiatric social work in India?
(or)
b) Explain in detail the National mental health programme.



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MODAL EXAM – MARCH -2019 SOCIAL WELFARE ADMINISTRATION

Class : I-MSW **Marks: 75**
Paper Code : 18PSW08 **Time** :3 Hrs

SECTION – A

I. Answer any Four questions: (5 x 5 = 25)

1. (a) Define and explain the meaning of social welfare administration.
(or)
(b) Narrate the historical development of social welfare administration.
2. (a) Explain social welfare administration and social work administration
(or)
(b) Write the social welfare program agencies.
3. (a) Elucidate the types and modals of NGO's
(or)
(b) Explain the qualities of Tamil Nadu state council board.
4. (a) Give the types and aims of social policies.
(or)
(b) Enumerate the schemes and programs for development of OBC's.
5. (a) Write the objectives of planning.
(or)

- (b) Explain the eight fundamental rights.

SECTION – B

II. Answer all the questions: (5X10=50)

6. (a) Explain the types and functions of social welfare administration.
(or)
(b) Brief the annual report preparations in all contrasts.
7. (a) Explain the voluntary social welfare agencies functions, services and limitations.
(or)
(b) Write the different types of non governmental organizations in India.
8. (a) Enumerate the development of scheduled caste and scheduled tribes in India.
(or)
(b) Give the policies and programs for the women, children, aged and handicapped.
9. (a) Explain the planning machineries at the state and national levels.
(or)
(b) Describe the five year plans of social development, concept and indicators for social change.
10. (a) Explain the state policies for Hindu, Muslim and Christians.
(or)
(b) Discuss the legislation relating social problems in India.



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MODEL EXAM – MARCH - 2019

PROBABILITY THEORY

CLASS : II M.Sc. Maths MARKS:75
PAPER CODE: 17PMA13 TIME :3Hrs

SECTION – A

Answer ALL the questions. (10x2=20)

1. Define random experiment.
2. State mutually exclusive events.
3. What do you mean by random event?
4. State the properties of expected values.
5. Define characteristic function.
6. Show that $E(aX+b)=aE(X)+b$.
7. Explain poisson distribution.
8. Define marginal distribution.
9. State De-Moivre Laplace theorem
10. Define WLLN.

SECTION – B

Answer ALL the questions. (5x5=25)

11. a) If the events A and B satisfy the condition $A \subset B$, then prove that $P(A) \leq P(B)$.
(or)
b) The events A_1, A_2 are independent of one another, then prove that complementary of A_1, A_2 are also independent of one another.

12. a) State and prove the properties of expected values.

(or)

b) The random variable X takes the value 2 and 4 with probabilities $P(X=2) = 0.2$ and $P(X=4) = 0.8$, then find $E(X^2)$.

13. a) State and prove properties of characteristic function.

(or)

b) Explain the concept of semi invariants.

14. a) Prove that the variance of one point distribution is zero.

(or)

b) Derive the additive property of poisson distribution.

15. a) Derive Lind Berg theorem.

(or)

b) Explain the concept of Bernoulli law of large numbers.

SECTION – C

Answer any THREE questions. (3x10=30)

16. State and prove Baye's theorem on probability.
17. State and Prove Liaponov inequality.
18. Find the p.d.f of random variable X whose characteristic function is $\phi(t) = e^{-t^2/2}$
19. Find the characteristic function of normal distribution.
20. State and prove Levy-Cramer's theorem



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MODEL EXAM – MARCH 2019 PAPER – XI - SHAKESPEARE

CLASS : III B.A ENGLISH MARKS: 75
PAPER CODE:12UEN11 TIME : 3hrs

SECTION – A (10X2=20)

I. Answer all the questions in about 30 words each:

1. Why does Caesar say, 'Cowards die many times before their deaths'?
2. How does Cassius attempt to alter the mind of Brutus?
3. Write a short note on Antony's funeral oration.
4. Compare and contrast Ariel and Caliban.
5. Bring out the virtue of Prospero.
6. Who was Prospero?
7. Trace the reason for Alonso's sadness.
8. What is Lady Macbeth's reflection on Macbeth's letter?
9. How did the three witches welcome Macbeth?
10. Establish that *The Tempest* is a romantic play.

SECTION – B (5X5=25)

II. Answer the following in about 100 words each:

11. a) Explain the meeting between Brutus and his wife, Portia.

(or)

- b) Give an account on the funeral oration of Brutus and Antony in *Julius Caesar*.

12. a) Write a paragraph on Calpurnia's dream.

(or)

- b) Comment on the songs and music in the play *The Tempest*.
13. a) Critically examine the theme of forgiveness in the play *The Tempest*.

(or)

- b) Discuss the significance of the game of chess in *The Tempest*.

14. a) *The Tempest* is purely a romantic drama. Comment on the above statement and state the reasons why is it not a comedy or a tragedy?

(or)

- b) Sketch the character of Duncan.

15. a) How is Macbeth deceived by the prophecy of the witches?

(or)

- b) What is Macbeth's reaction to the appearance of the ghost of Banquo?

SECTION – C (3X10=30)

III. Answer any three of the following in about 200 words each:

16. Comment on the supernatural elements in *Julius Caesar*.
17. Consider "Julius Caesar" as a Shakespearean tragedy.
18. Elucidate *the Tempest* as the romantic comedy.
19. Bring out the use of supernatural elements in *Macbeth*.
20. Attempt the evolution of actions in *Macbeth* marking the climax.



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MODEL EXAMINATION-MARCH 2019 RELATIONAL DATABASE MANAGEMENT SYSTEM

Class : II B.Sc. CS/II BCA Time : 3Hrs
Paper Code: 17UCS09/17UCA07 Marks: 75

SECTION – A

I. Answer all the questions: (10x 2 =20)

1. Define RDBMS.
2. Mention some of the components of ER - diagram.
3. List out the aggregate functions.
4. Write a short note on where and from clause.
5. Expand BCNF.
6. Give some examples of 3NF.
7. What is SQL?
8. Write the data types in RDBMS.
9. Define assertion.
10. List out the pitfalls of lock-based protocol.

SECTION – B

II. Answer all the questions: (5 x 5 = 25)

11. a) Give details on constraints.
(or)
b) Explain five aggregate operations.

12. a) Differentiate between DBMS vs file.
(or)
b) Describe basic concepts of ER-Model.
13. a) Explicate the triggers.
(or)
b) Discuss about authorization in SQL.
14. a) Elucidate decomposition.
(or)
b) Illuminate 1NF and 2NF.
15. a) Explain deadlock handling.
(or)
b) Illustrate two-phase lock protocol.

SECTION – C

III. Answer any three questions: (3 x 10 = 30)

16. Illustrate the basic structure of an SQL expression.
17. Elucidate the database system architecture.
18. Discuss normalization in detail.
19. Explain security and authorization.
20. Expound serializability and its types.



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MODEL EXAMINATION – MARCH 2019 RELATIONAL DATABASE MANAGEMENT SYSTEM

Class : III B.Sc. CS Time : 3Hrs
Paper Code: 12UCS09 Marks: 75

SECTION – A

I. Answer all the questions: (10x 2 =20)

1. Define RDBMS.
2. Mention some of the components of ER - diagram.
3. List out the aggregate functions.
4. Write a short note on where and from clause.
5. Delineate decomposition.
6. Give some examples for 3NF.
7. What is SQL?
8. Write the data types in RDBMS.
9. Define assertion.
10. List out the types of persistent programming language.

SECTION – B

II. Answer ALL the questions: (5 x 5 = 25)

11. a) Give details on constraints.
(or)
b) Explain five aggregate operations.

12. a) Differentiate between DBMS vs file.
(or)
b) Describe the basic concepts of ER-Model.
13. a) Explicate the triggers.
(or)
b) Discuss about authorization in SQL.
14. a) Elucidate decomposition.
(or)
b) Illuminate the 1NF and 2NF.
15. a) How do you modify the database? Explain.
(or)
b) Give an explanation on the Structured Query Language.

SECTION – C

III. Answer any three questions: (3 x 10 = 30)

16. Illustrate the basic structure of an SQL expression.
17. Elucidate the database system architecture.
18. Discuss briefly on Normalization.
19. Explain security and authorization.
20. Expound the object oriented language and object relational data models.



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MODEL EXAM – MARCH - 2019 COMPANY LAW

Class	: II B.Com	Max Marks:	75
Paper Code:	17UCM08	Time	: 3 Hrs

SECTION – A

I. Answer ALL the questions: (10×2=20)

1. Define joint stock company.
2. What is company law?
3. Give the meaning of MOA.
4. Write a short note on 'certificate of incorporation'
5. Who can be a manager?
6. State the meaning of ordinary resolution.
7. Who is liquidator?
8. Define winding up.
9. Comment on criminal liability.
10. What is quorum?

SECTION – B

II. Answer ALL the questions: (5×5=25)

11. a) Justify the features of company.
(or)
b) Trace out differences between the public company and the private company.

12. a) Elaborate the various types of promoters.
(or)
b) Distinguish between memorandum of association with articles of association.

13. a) Evaluate misstatement in prospectus and remedies.
(or)
b) Briefly describe various kinds of preference shares.

14. a) Describe the qualification of shares.

- (or)
- b) What is ordinary resolution? when is it necessary?

15. a) Discuss the process of winding up in a company.

- (or)
- b) Enumerate the duties of the liquidators of winding up of the company

SECTION – C

III. Answer any THREE questions: (3×10=30)

16. Discuss the kinds of company.
17. Explain the clauses of memorandum.
18. Analyze the contents of prospectus.
19. Mention the powers and duties of directors.
20. Explain the circumstances where winding up is compulsory.



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MODEL EXAM - MARCH - 2019 FINANCIAL MANAGEMENT

Class : III B.Com.
Paper Code: 12UCME02

Max Marks: 75
Time : 3Hrs

SECTION – A

I. Answer ALL the questions: (10 x 2 = 20)

1. What is financial management?
2. Define current assets.
3. Give the meaning of capital structure.
4. Specify the meaning of flexibility.
5. Define cost of capital.
6. Write a short note on WACC?
7. What is leverage?
8. How will you calculate EBIT?
9. What do you mean by working capital?
10. State the meaning of return on investment.

SECTION – B

II. Answer ALL the questions: (5 x 5 = 25)

11. a) Describe the advantages of wealth maximization.
(or)

- b) List out the objectives of financial management.
12. a) Examine the features of capital structure.
(or)
b) Evaluate the importance of capital structure.
13. a) What are the merits and demerits of WACC?
(or)
b) Mention the classification cost of capital.
14. a) Discuss the importance or signification of leverage.
(or)
b) Give an account describe the composite leverage.
15. a) Elaborate the concept of working capital.
(or)
b) Enumerate objects of working capital.

SECTION – C

III. Answer any THERE questions: (3 x10 =30)

16. Examine the scope of financial management.
17. Analyze the capital structure theories.
18. What are the various types of approach?
19. Compare operating leverage with financial leverage.
20. Describe the importance of working capital.



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MODEL EXAM – MARCH 2019 PHYSICAL CHEMISTRY-II

Class : I M.Sc. Chem.

Marks : 75

Paper Code: 17PCH05

Time : 3Hrs

SECTION-A

Answer ALL the questions : (5x5=25)

- (a) Write a brief account on distribution of distinguishable and non-distinguishable particles.
(or)
(b) State and explain the principles of microscopic reversibility.
- (a) Explain the kinetics of consecutive complex reactions.
(or)
(b) Discuss the principle of flash photolysis.
- (a) List the differences between physical adsorption and chemical adsorption.
(or)
(b) Write about the enzyme acid-base catalysis.
- (a) Assign the ground state term symbol for Fe^{2+} and Fe^{3+} atom.
(or)
(b) Give the spin orbit interaction of LS coupling and JJ coupling.
- (a) Show that symmetry selection rule for electronic Spectra.
(or)
(b) Evaluate the determination method of vibrational modes in ammonia.

SECTION-B

Answer ALL the questions : (5x10=50)

- (a) Deduce an expression for Maxwell-Boltzmann statistics.
(or)
(b) State and explain Einstein and Debye theory of Heat capacity of solids.
- (a) How will you determine the Rice-Herzfeld mechanism of H_2-O_2 reactions?
(or)
(b) Write notes on the following:
i) Relaxation method (5)
ii) Stopped flow technique (5)
- (a) Derive the mechanism of Michaelis menton equation and effect of pH and its temperature.
(or)
(b) Describe the assumptions and equation of B.E.T adsorption isotherm.
- (a) Discuss the application of schrodinger equation of hydrogen atom.
(or)
(b) Justify the following:
i) Variation method (5)
ii) Perturbation method (5)
- (a) Give the symmetry of hybrid orbitals in XeF_4 molecule.
(or)
(b) Design the vibrational modes of water and methane molecules.



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MODEL EXAM - MARCH 2019 PHYSICAL CHEMISTRY-II

Class : III B.Sc., Chem. Marks : 75
Paper Code : 12UCHE04 Time : 3 Hrs

SECTION - A

Answer ALL the questions: (10×2=20)

1. Define Phase rule.
2. What is meant by Eutectic point?
3. State Equivalent conductance.
4. Give the Walden's rule.
5. Which are buffer solutions?
6. Write the degrees of hydrolysis.
7. Illustrate the Reference electrode.
8. How to define electrochemical series?
9. What is Galvanic cell?
10. Find out the term over voltage.

SECTION - B

Answer ALL the questions: (5×5=25)

11. a) Explain the KI - H₂O system.
(or)
b) Write an account of sulphur system.
12. a) How will you determine the transport number by moving boundary method?
(or)
b) Write a note on Kohlrausch's law.

13. a) Describe the importance of buffer in living system.
(or)
b) Derive an Henderson equation for calculating acidic and basic buffer.
14. a) Account the function of Weston standard cell.
(or)
b) Derive Nernst equation for single electrode potential.
15. a) Explain the contraction cells with transference.
(or)
b) Write a note on i) LJP.
ii) Polarization.

SECTION - C

Answer any THREE questions: (3×10=30)

16. Derive the Zn-Mg simple eutectic system.
17. Explain the types of conductometric titrations and draw the corresponding curves.
18. Derive the expression for hydrolysis constant, degree of hydrolysis and P^H for salt of weak acid and weak base.
19. Explain the P^H using hydrogen and quinhydrone electrodes.
20. Discuss the working of Lead - Storage battery and Hydrogen - Oxygen fuel cell.



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MODEL EXAM - MARCH- 2019 FINANCIAL INSTITUTIONS AND SERVICES

Class : III BBA Marks : 75
Paper Code : 12UBA16 Time : 3 Hrs

SECTION – A

I Answer ALL the questions: (10X2=20)

1. What is financial system?
2. Expand OTCEI.
3. State HDFC.
4. What do you mean by underwriting?
5. Enumerate factoring.
6. Name any four development banks.
7. Mention any two objectives of HUDCO.
8. Who is merchant banker?
9. Write a note on NBFI.
10. List any four money market instrument.

SECTION – B

II Answer the following questions: (5X5=25)

11. a) Explain the functions of RBI.
(or)
b) Describe the features of NSE.
12. a) Bring out the types of mutual fund.
(or)

b) Distinguish between operating and financial lease.

13. a) Briefly explain the functions of merchant banking.

(or)

b) What are the types of credit rating?

14. a) Enumerate the functions of IDBI.

(or)

b) Discuss the role of merchant banking in corporate sector.

15. a) Briefly explain credit rating agencies in India.

(or)

b) Examine the functions of commercial bank.

SECTION – C

III Answer any three of the following questions:

(3X10=30)

16. Bring out the types of leasing.
17. Explain the role of financial system in economic development.
18. State the functions of NHB.
19. Differentiate between hire purchase and lease purchase.
20. Examine the powers and functions of SEBI.



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MODEL EXAM MARCH – 2019 BUSINESS POLICY AND STRATEGIC MANAGEMENT

Class	: III BBA	Marks	: 75
Paper Code	: 12UBA15	Time	: 3 Hrs

SECTION – A

I Answer all the questions: (10X2=20)

1. Mention any two features of business policy.
2. What is meant by SWOT analysis?
3. What do you mean by functional level strategy?
4. Define strategic management.
5. Enumerate the marketing policy.
6. List out the various process of business policy.
7. Write a note on “strategic business unit”.
8. List out the kinds of growth strategy.
9. Explain: business ethics.
10. Bring out importance of social responsibility.

SECTION – B

II Answer all the questions: (5X5=25)

11. a) List out the objectives of business policy.
(or)
b) Bring out the purpose of business policy.
12. a) Explain the steps involved in policy making.

(or)

- b) Discuss the policy of production designing.

13. a) Write a note on ETOP analysis.

(or)

- b) Explain the various process of responsibility in business towards community.

14. a) Point out the features of social audit.

(or)

- b) List out the components of strategy.

15. a) Discuss the merits of social responsibility.

(or)

- b) Narrate the essential characteristics of personnel policy.

SECTION – C

**III Answer any three of the following questions:
(3X10=30)**

16. Describe the classification of business policy.
17. Enumerate the BCG matrix method and bring out the limitations.
18. List out the kinds of major business strategies.
19. What are the merits and demerits of growth strategy?
20. Define social audit and describe its benefits.

**MODEL EXAM – MARCH - 2019**
FOUNDATION ENGLISH IVClass : **U.B.A., B.Sc.** Marks : **75**
Sub Code: **17UFL/NU** Time : **3Hrs****SECTION A****I. Answer the following questions: (10X2=20)**

- Match the following:
 - Agonized - flirtatiously
 - Coquettishly - dangers
 - Snubbed - bemoaning filled with agony
 - Hazards - insulted
- Unscramble the following words:
 - DKAR
 - ELDNAC
 - NWDO
 - DPEOSI
- Choose the correct meaning of the highlighted phrases given below:
 - Kindness** melted me.
 - angry
 - kindhearted
 - humility
 - economical
 - No, Please do not refuse' Shasha **went on** muttering as he unpacked the parcel.
 - stop
 - continue
 - cease
 - quit
 - Thirty minutes past six means
 - 5:30
 - 6:30
 - 6:00
 - 7:30
 - It **depends** on water passed into the atmosphere above the forests by the trees.
 - needs support
 - act individually
 - joins
 - separates
- Fill up the blanks using the words given below:
The figures were smiling _____ and altogether looked as though, had it not been for the necessity of supporting the _____, they would have _____ off the pedestal and have indulged in an orgy such as is _____ for the reader even to imagine. (skipped, improper, candlestick, coquettishly)
- Choose the correct answer:
 - Gandhiji could never learn the art of _____.
 - copying
 - writing
 - talking
 - joking
 - The character Shashkin is a _____.
 - lawyer
 - doctor
 - magician
 - comedian
 - Gortsby was sitting on the park bench _____.
 - searching for his purse
 - eating bread
 - waiting for a friend
 - thinking man's life
 - White Urban landscape would _____ global warming.
 - quicken
 - stop
 - delay
 - continue
- State whether the following true or false:
 - The Persian teacher was not a lenient.
 - Madam Smirnov bought and sold antique painting.
 - Gortsby was sitting at the theatre.
 - Studying climate change is called by the name bombshell.

7. Rearrange each item into a meaningful sentence:

- a/of research/academic/this/is/new area.
- was in the mood/among the defeated/to count himself/he.
- all at once/and/flew into the room/the door opened/Shasha Smirnov.
- the/was lenient/teacher/Persian.

8. Fill in the blanks with the correct interjection:

- _____ My grandma is no more.
- _____ It pains a lot.

- _____ The patient is resting.
- _____ The can has broken down again.

9. Change the following sentences into indirect speech:

- He said, "Where can I get an application form?"
- The captain says, "I prefer death to dishonor."

10. Write four words that used as both adjectives and adverbs.**SECTION B****II. Answer the following questions: (5X5=25)**

- What is the practical joke being played in Olivia's garden?
(or)
Summarize the speech of Antony.
- Fill up with appropriate conjunction:
 - He is rich _____ miserable.
 - Work hard _____ you should fail.
 - Neither a lender _____ a borrower be.
 - We eat _____ we may live.
 - I cannot excuse you _____ you apologies.
(or)
- Rewrite each sentence using the adverb correctly:
 - She comes here. (seldom)
 - I have any money. (hardly)
 - My mother tells a lie. (never)
 - The painting is good (fairly)
 - John will pick it up. (gradually)
- Convert the following sentences into indirect speech:
 - I said, "You will have to go alone today, Nisha."
 - "May I have a little more pudding?" said the little girl.
 - "Drive fast and overtake that car," said the man in the taxi.
 - "Good Heavens!" cried the officer, "did he really commit such a crime?"
 - He said, "Where can I meet you tomorrow?"
(or)
- You have witnessed an accident that took place near Moolchand flyover between a car and a truck. Write a report of the accident to be published in a newspaper. You are a news reporter of Delhi times.
- Send an e-mail to your friend describing how Indians celebrate Deepavali.
(or)
- You have recently constructed a house with all the facilities in a posh area, you have decided to give it on a rent. Draft a suitable advertisement for 'To Let' column of local daily.
- How will you request a medical leave to your department head in your office?
(or)
- A famous cricketer has announced retirement from first class cricket. As a press reporter what should be your questions?

SECTION C**III. Answer any three of the following questions: (3X10=30)**

- How does Anton Chekhov add humour to the story 'A Work of Art'?
- Write an essay on the impact of climate change on man's lives as envisaged by David Adam.
- What does the poet wish to bring home from her grandmother's house?
- Describe the encounter between the poet and the snake.
- Bring out the significance of Act II scene V in 'Twelfth Night.'