



தொன் போஸ்கோ கல்லூரி

தொன் போஸ்கோ கல்லூரி, தருவூர் 636 809
தொன் போஸ்கோ கல்லூரி, தருவூர் 636 809
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இளங்கலைத் தமிழ் இரண்டாமாண்டு-மூன்றாம் பருவம்

கழற்சித் தேர்வு (செப்-2019)

தாள் : தமிழ் மொழி வரலாறு

காலம் : 2 மணி 17UTAA03 மதிப்பெண்: 50

பகுதி - அ

I. அனைத்து வினாக்களுக்கும் விடையளி:

(5X2=10)

1. ஒலியை ஆராயும் முறைகள் யாவை?
2. இந்திய வரிவடிவங்களின் தாய் எது?
3. சங்க மருவிய காலத்தமிழை எந்நூல்களின் வழி ஆராயலாம்?
4. ஆக்கப் பெயர்களுக்குச் சான்று தருக.
5. வானொலித் தமிழில் இடம்பெறும் சொற்கள் யாவை?

பகுதி - ஆ

II. கொடுக்கப்பட்ட வினாக்களுக்கு விடையளி.

(4X5=20)

6. அ) தென்திராவிட மொழிகளின் சிறப்பியல்புகளை இயம்புக.

(அல்லது)

- ஆ) வெளிநாட்டார் எழுதிய இலக்கணங்கள் குறித்துத் தெளிவுறுத்துக.

7. அ) குகைக் கல்வெட்டுகளைச் சான்று காட்டுக.
(அல்லது)
ஆ) சங்ககாலத் தமிழ்க் குறித்துச் சுருக்கமாக எழுதுக.

8. அ) பல்லவர் கால உயிரொலி, மெய்யொலி மாற்றங்களைப் பட்டியலிடுக.
(அல்லது)
ஆ) நாயக்கர் காலத் தமிழ் ஒலியன்களை வரிசைப்படுத்துக.

9. அ) இருபதாம் நூற்றாண்டு தமிழ்ச் சொற்சொற்களின் மாற்றத்தினை எழுதுக.
(அல்லது)
ஆ) மராட்டியக் கால ஒலியன் மாற்றத்தை நிரல்படுத்துக.

பகுதி - இ

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

10. திராவிட மொழிகளின் வகைகள் குறித்துக் கட்டுரைக்க.
11. தொல்காப்பியத் தமிழ்க் குறித்து விவரிக்க.
12. சோழர் காலத் தமிழை ஆய்க.



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CYCLE TEST – SEPTEMBER– 2019 COUNSELLING SKILLS FOR CONTEMPORARY SOCIAL WORK

Class	: II MSW	Marks	: 50
Paper Code	: 17PSW12	Time	: 2 Hours

SECTION – A

I. Answer all the questions: (4x5=20)

1. a) Explain the portrait of a trainer.
(or)
b) Write the elements of counselling.
2. a) Mention the importance of attending and listening skill.
(or)
b) Enumerate the psychological foundations of counselling.
3. a) Write short notes on genuineness and concreteness.
(or)
b) Detail the concept of self-actualization.
4. a) Describe the need for family therapy.
(or)
b) Explain the significance of cognitive approach.

SECTION – B

II. Answer all the questions: (3x10=30)

5. a) Discuss the effectiveness of a counsellor.
(or)
b) Examine the significance of counsellor and counselee relationship.
 6. a) Elucidate the salient features of Client-centered approach.
(or)
b) Discuss about eclectic approach in counselling.
 7. a) Elaborate counselling process in detail.
(or)
b) Describe the helper's skills needed for effective counselling.
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CYCLE TEST – 2019

PERSONALITY DEVELOPMENT AND HUMAN BEHAVIOUR

Class	: I MSW	Marks	: 50
Paper Code	: 17PSW05	Time	: 2 Hours

SECTION – A

I. Match the following: (10x1=10)

- | | |
|----------------------|-------------------------|
| 1. Sigmund Freud | - Functionalism |
| 2. William James | - Empiricism |
| 3. Wilhelm Wundt | - Associationism |
| 4. Carl Roger | - Psycho analysis |
| 5. John B. Watson | - Structuralism |
| 6. William McDougall | - Dualism |
| 7. Johann Herbart | - Behaviourism |
| 8. Descartes | - Defined Psychology |
| 9. John Locke | - Individual Psychology |
| 10. Kant | - Analytical Psychology |

SECTION – B

II. Answer any TWO questions: (2x5=10)

11. Explain the relevance of psychology in social work.
12. Describe the fields of psychology.
13. Mention the development tasks of babyhood.
14. Explain the nature and definition of learning.

13. Mention the development tasks of babyhood.
14. Explain the nature and definition of learning.
15. Write the types of coping mechanism.

SECTION – C

III. Answer all the questions: (3x10=30)

16. a) Elaborate on the branches of psychology.
(or)
b) Explain the fields of psychology.
17. a) Discuss the difference between Human growth and development.
(or)
b) Elucidate the social aspects of development of adult.
18. a) Illustrate the theories of learning and its importance in social work.
(or)
b) Explain the schools of psychology.



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CYCLE TEST – SEPTEMBER - 2019

SOCIAL HISTORY OF ENGLAND

Class : I B.A.ENG

Marks : 50

Paper Code: 17UENA01

Time : 2 Hrs

SECTION A

I. Choose the best answer:

(1x10=10)

- Earl of Surrey and Thomas Wyatt brought _____ form of poetry into England.
(a) Ballad (b) Sonnet (c) Ode (d) Epic
- William Caxton brought printing press to England in _____.
(a) 1450 (b) 1476 (c) 1480 (d) 1487
- _____ was responsible for English Reformation.
(a) King Henry VI (b) King Henry VII
(c) King Henry VIII (d) King Henry IV
- Reformation Parliament was summoned by _____.
(a) King Henry VI (b) King Henry VII
(c) King Henry VIII (d) King Henry V
- In Restoration England, the Great Plague of London broke out in _____.
(a) 1565 (b) 1665 (c) 1645 (d) 1675
- In Restoration England, the Great Fire of London broke out on _____.
(a) 1 September 1565 (b) 2 September 1665
(c) 3 September 1645 (d) 4 September 1665
- There were only about _____ million people in Restoration England.
(a) 2million (b) 5 million (c) 6 million (d) 7 million
- Elizabeth I was fluent in _____ languages.
(a) 2 (b) 5 (c) 6 (d) 8

9. Elizabeth I established _____ in 1600.

- (a) Black Fire Theatre (b) East India Company
(c) New England (d) Plymouth

10. Queen Anne ruled England _____.

- (a) From 1702 to 1714 (b) From 1704 to 1714
(c) From 1700 to 1714 (d) From 1706 to 1714

II Answer any TWO of the following questions in about 100 words:

(2x5=10)

- Write short notes on the Puritan contribution to English Literature.
- Write a short note on Virginia.
- Write short notes on the Gunpowder Plot.
- What were the causes for the Reformation?
- What are the results of the Agrarian Revolution?

III Answer ALL questions in about 300 words:

(3x10 =30)

- (a) Write an essay on the Reformation.
(or)
(b) Write an essay on the Agrarian Revolution.
- (a) Write an essay on the golden age of Queen Anne.
(or)
(b) Write an essay on the Restoration England.
- (a) Write an essay on the Colonial expansion of England.
(or)
(b) Write an essay on the Glorious Revolution.



**CYCLE TEST- SEPTEMBER-2019
PRINTING PROCESS & MATERIALS**

Class : II B.Sc. D.P.M Marks: 50
Paper code : 17UDP04 Time : 2 hrs.

SECTION – A

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

1. Write about stock preparation.
2. Define paper pulp.
3. What is gray board?
4. Write short notes on finishing process.
5. Define testing.
6. What are the board properties?
7. List out the types of paper sizes.
8. Mention glossy ink.
9. Write about duplex board.
10. Define bleaching.

SECTION – B

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

- 11.a) What are the various operations in paper making process?
(or)
b) Explain pulping process.

12. a) Write the various stages in board making Process.

(or)

b) Describe runnability properties and testing.

13. a) Why is bleaching done in paper making process?

(or)

b) List out the different process involved in screen printing.

14. a) Elaborate the types of papers and boards.

(or)

b) Explain about ISO paper sizes.

SECTION – C

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

15. Emergence of the four printing process. Explain in detail.
16. Describe the different industrial applications of paper and boards.
17. Write in detail the complete paper making process.



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CYCLE TEST SEPTEMBER - 2019

WEB TECHNOLOGY

Class	: III BCA	Time	: 2 Hrs
Paper Code	: 17UCA06	Marks	: 50

SECTION – A

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

1. List out the types of array.
2. What is numeric array?
3. How will you store a data in array?
4. Define nesting array.
5. Write short notes on user defined data types in php.
6. How will you create a class in php?
7. What is the use of file_size() function?

SECTION – B

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

8. a) Elucidate the topic of date and time function.

(or)

b) How will you use forms in arrays?

9. a) Give a note on constructor.

(or)

b) Explicate about oop concepts in php.

10. a) Write the procedure to work with arrays.

(or)

b) List and explain the numeric functions.

11. a) Detail the file concept.

(or)

b) List and explain the directory functions.

SECTION – C

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

12. Illustrate process arrays with loops and iterations.
13. Explain the arrays and functions.
14. How will you read and write files from directory?



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CYCLE TEST - SEPTEMBER – 2019 BUSINESS APPLICATION SOFTWARE

Class : I B.Com CA Marks : 50
Paper Code : 17UCSA10 Time : 2 Hrs

SECTION – A

I. Answer All questions (10 x 1 = 10)

1. We can start MS Word by typing _____ in the Run Dialog box.
A. winword.exe B. word.exe C. msword.exe D. docx.exe
2. Which one is the the spreadsheet application that comes with MS Office software group?
A. MS Word B. MS Excel C. MS PowerPoint
D. MS Access
3. We can apply border to _____
A. Cell B. Paragraph C. Table D. All of These
4. What is the shortcut key to open the Open dialog box?
A. F12 B. Shift F12 C. Alt + F12 D. Ctrl + F12
5. You cannot close MS Office application by
A. Exit from File menu B. Pressing Alt+F4
C. Clicking [X] Button D. Close from File Menu
6. By default Footers are printed on :
A. First Page B. Last Page C. All Pages D. Even Pages
7. Which shortcut make selected text Italic ?
A. Ctrl + I B. Ctrl + A C. Ctrl + S D. Ctrl + V
8. Which shortcut is used to select entire text ?
A. Ctrl + I B. Ctrl + A C. Ctrl + S D. Ctrl + V

9. What is the shortcut key to search for any Spelling mistake on a document ?

- A. Function Key 2 B. Function Key 5
C. Function Key 7 D. Function Key 9

10. Name word processing application that comes with MS office.

- A. MS Word B. MS Excel
C. MS power Point D. MS Paint

SECTION – B

II. Answer any TWO questions (2 x 5 = 10)

11. Illustrate the parts of word window.
12. Explain about table menu.
13. Describe the various aspects of editing and formatting in excel
14. How will you create a chart?
15. Write down the steps to create a data form.

SECTION – C

III. Answer ALL the questions (3 x 10 = 30)

16. a) How will you format the document?
(or)
b) Discuss excel formulae and functions.
17. a) Explain the various aspects of art and sound in Ms power point.
(or)
b) Elaborate format and slide show menu.
18. a) Narrate text and format in power point.
(or)
b) Mention the commands used in insert menu.



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CYCLE TEST – SEPTEMBER – 2019 BANKING THEORY LAW AND PRACTICE

Class : II B.Com.

Paper Code: 17UCM07

Marks: 50

Time : 2 Hrs

SECTION – A

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

1. State the qualities of negotiable instrument.
2. Define the term cheque.
3. Give the meaning commercial bank.
4. What do you mean by lending practice?
5. What is general crossing?
6. Write a short note on central bank.
7. Give any two types of deposits account.
8. How will you compute secured loan?

SECTION – B

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

9. a) Bring out the different kinds of deposits account.
(or)
b) Explain the classification of commercial bank.

10. a) What are the condition of sound bank lending?
(or)
b) Describe the different types of advance.
11. a) Narrate the elements of negotiable instruments.
(or)
b) Distinguish between cheque and bill of exchange.
12. a) Indicate the types of crossing cheque.
(or)
b) Enumerate the effective duties of collecting banker.

SECTION – C

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

13. Briefly explain various types of endorsement.
14. Mention the monetary policy of RBI.
15. Describe the role of economic development.
16. List out the methods of credit control.



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CYCLE TEST – SEPTEMBER- 2019 INORGANIC CHEMISTRY – I

Class : III B.Sc. Chem. Marks : 50
Paper Code : 17UCH05 Time : 2 Hrs

SECTION – A

Answer ANY FIVE questions: (5X2=10)

1. What is meant by ligand?
2. Write the IUPAC name of the following complex a) $K_4[Fe(CN)_6]$ b) $[Co(NH_3)_6]Cl_3$
3. Define Coordination number.
4. Find out EAN of $[Pt(NH_3)_6]^{4+}$
5. State Sidgwick's theory.
6. What is trans effect?
7. Give the reactions of cobalt ions.
8. How will you identify the Ni^{2+} ions?
9. Organize the order of ligands in trans effect.
10. Draw the structure of EDTA.

SECTION – B

Answer ALL the questions: (4X5=20)

11. a) Describe the structural isomerism in complexes.
(or)
b) Construct the Nomenclature of mononuclear and polynuclear complexes.
12. a) Illustrate the Werner's Coordination theory.
(or)

b) Outline the geometrical isomerism in 6 coordinated complexes.

13. a) Applying trans effect how will you synthesis cis and trans forms of dichlorodiamine platinum (II) complexes.
(or)

b) Compare the reactions of copper and cadmium ions.

14. a) Write the applications of EDTA.
(or)

b) Estimate the principle and requirements of complexometric titrations.

SECTION – C

Answer ALL the questions: (2X10=20)

15. a) Explain the optical isomerism in 4 and 6 co-ordinate complexes.
(or)

b) Justify the following
(i) Chelate effect (ii) EAN concept

16. a) Discuss the various theories of trans effect.
(or)

b) Describe the substitution reactions in square planar complexes with suitable examples.



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CYCLE TEST – SEPTEMBER 2019 PHYSICAL CHEMISTRY - III

Class : II M.Sc, Chem. Marks : 50
Paper Code : 17PCH08 Time : 2 Hrs

SECTION – A

Answer ALL the questions: (4×5=20)

- a) Determine the hydrogen-oxygen evolution reactions.
(or)
b) List the principle and prevention of corrosion metals.
- a) Construct the working of Nickel-Cadmium battery.
(or)
b) Define fuel cell and examine the H₂-O₂ fuel cell.
- a) Discuss the effect of isotopic substitution on rotational spectra.
(or)
b) Deduct the mutual exclusion rule on Raman spectra.
- a) Explain vibrational spectra of harmonic oscillator.
(or)
b) Elaborate the electronic spectra of diatomic molecules by using Franck-Condon principle.

SECTION – B

Answer ALL the questions: (3×10=30)

- a) Explain the working of lead acid accumulator storage battery.
(or)
b) State the principle and applications of Electro deposition.
- a) Evaluate the Butler-Volmer equation in exchange and equilibrium current density.
(or)
b) Derive the internuclear axis of rigid rotator on spectral lines.
- a) Sketch the principle and selection rules of rotational and vibrational Raman spectra.
(or)
b) Write short notes on:
i) Hot bands, ii) Overtones and combination bands, iii) Fermi resonance.



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CYCLE TEST SEPTEMBER- 2019 ENTREPRENEURSHIP DEVELOPMENT

Class : II DPM Marks : 50
Paper Code : 17UBAA07 Time : 2 Hrs

SECTION – A

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

1. What is financing entrepreneur.
2. State the IFCI.
3. Mention any four qualities of entrepreneur.
4. Give the meaning of commercial banks.
5. Explain MSME.
6. Write any two regulations governing SSI.
7. Write a short note on 'ICICI'.
8. What is project design?
9. Distinguish import and export.
10. What do you mean by TICC.

SECTION – B

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

11. a) Bring out the function of IFCI .
(or)
b) What are the objectives of LIC?

12. a) Discuss in detail the phase of entrepreneurial development programme.
(or)
b) State the terms and condition of financial assistance.
13. a) Narrate the importance of small scale industries.
(or)
b) Explain the role of small scale industries
14. a) Discuss about features of commercial bank
(or)
b) Classify project feasibility studies.

SECTION – C

III Answer any two questions: (2X10=20)

15. a) Explain various roles of commercial banks in a developing economy.
(or)
b) What are the functional objectives of ICICI bank?
16. a) Describe the incentive and concessions offered to small scale units.
(or)
b) List out the steps in the preparation of a project report



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CYCLE TEST - SEPTEMBER-2019 PRINCIPLES OF MANAGEMENT

Class : I BBA Marks : 50
Paper Code : 17UBA01 Time : 2 Hrs

SECTION – A

I Answer ALL questions: (10X1=10)

- Which is the first function of management?
(a) Planning (b) Organizing (c) Staffing (d) Directing
- Who pioneered the concept of MBO?
(a) Taylor (b) Fayol (c) Peter Drucker (d) Mayo
- Division of work promotes:
(a) Specialization (b) Wastage (c) Confusion (d) Defects
- Organization is the process of:
(a) Arranging various inputs (b) Arranging conflicts
(c) Increasing objection (d) Defining accountability
- Select the correct abbreviation for MBO
(a) Management by objective (b) Means of object
(c) Manufacturing by option (d) Maintain by option
- Authority generally flows from:
(a) Top to bottom (b) Bottom to top
(c) Sideward (d) Different level
- Centralization involves:
(a) Delegation of authority (b) Delegation of power
(c) Dispersal of authority (d) Dispersal of position

- Select the single use plan:
(a) Objectives (b) Policies (c) Budget (d) Rules
- Accountability is the obligation of a:
(a) Superior (b) Sub-ordinate
(c) Foreman (d) Middlemen
- Planning is concerned with:
(a) Present (b) Past (c) Future (d) Recent

SECTION – B

II Answer any two questions out of five: (2X5=10)

- Explain the characteristics of planning.
- Describe the process of MBO.
- What are the steps involved in decision making?
- Enumerate the principles of organization.
- Differentiate formal and informal organization.

SECTION – C

III Answer the following questions: (3X10=30)

- Enumerate the merits and demerits of planning.
(or)
Briefly explain the process of planning.
- Discuss the merits and demerits of line and staff organization.
(or)
Bring out the types of decisions.
- Describe the problems of delegation.
(or)
What are the factors influencing span of management.



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CYCLE TEST - SEPTEMBER – 2019

ALLIED PHYSICS - II

Class	: II B.Sc. Che B	Time	: 2 Hrs.
Paper Code:	17UPHA02	Marks	: 50

PART – A

I. Answer ANY FIVE questions: (5 X 2 = 10)

1. Write Kepler's third law.
2. State Newton's law of gravitation.
3. Define gravitational mass.
4. Express joule Thomson's effect.
5. Coefficient of thermal conductivity
6. What is meant by inertial mass.
7. What are called critical points?
8. List out the Applications of switches.

PART – B

II. Answer the following questions: (4 X 5 = 20)

9. a) Explain carey foster bridge..
(or)
b) Calculate the atomic radius of SC structure.

10. a) Describe the secondary bonds.
(or)
b) Determine the internal resistance of the Unknown resistance .
11. a) Draw and discuss lee's disc experiment.
(or)
b) State and prove Demorgan's theorem.
12. a) Illustrate porous plug experiment with neat diagram.
(or)
b) Show that :
(i) $(A+B)(A+C) = A+BC$
(ii) $A+AB = A$

PART – C

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

13. a) Explain about primary bonds..
(or)
b) Calculate the G by Boy's method.
14. a) Describe a Zener diode use as a voltage regulator.
(or)
b) Prove that the changes of g between altitude and depth..



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CYCLE TEST - SEPTEMBER - 2019 INCOME TAX LAW AND PRACTICE – I

Class : III B.Com / III B.Com. (CA)
Paper Code : 17UCM14 / 17UCC11

Max.Marks : 50
Time : 2 Hrs

Section – A

I. Answer any FIVE questions:

(5 X 2 = 10)

1. Expand an Assessee.
2. What is total income U/S 2 (45)?
3. Define the term Income.
4. Who is an ordinary resident?
5. What do you mean by residential status?
6. Explain annual value.
7. Write a short note on unrealised rent.
8. Give the meaning of expected rent.

Section – B

II. Answer ALL questions:

(4X 5 = 20)

9. (a) Explain briefly about Person.
(or)
(b) What are the various incomes exempted U/S 10?
10. (a) How to identify the Residential Status of an Individual?
(or)
(b) Mr. A Comes to India for the first time in August 2015. During his stay in India up to 30th Sep 2018, he stayed for the first eight months in Mumbai and thereafter in Chennai. Determine his residential status for the assessment year 2019-2020.
11. (a) Define Annual Value and how is it determined?
(or)
(b) From the following, calculate Gross Annual Value.

Particulars	House I Rs.	House II Rs.
Municipal Rental Value	80,000	80,000
Fair Rental Value	1,00,000	1,00,000
Standard Rent	70,000	1,20,000
Actual Rent Received	1,20,000	90,000

It is assumed that both the houses were let out throughout the year and there was also no unrealised rent.

12. (a) Explain the objectives on income tax.

(or)

(b) Compute the annual rental value for the previous year 2018-19 from particulars given below:

MRV Rs 84000 P.a; FRV Rs 90000 P.a; Standard Rent Rs 87000 P.a; Real rent Rs 8000 P.a;
Unrealized rent Rs 4000; Date of completion 31-07-2018; Date of letting 01-10-2018.

Section – C

III. Answer any TWO questions:

(2 X 10 = 20)

13. (a) Explain the term 'Assessee.' State the different classes of Assesseees.

(or)

(b) Which of the following incomes are taxable, when the residential status of Mr. Umesh is :

- Income accrued in Canada but received in India Rs. 2,000.
- Rs. 5,000 were earned in Africa and received there but brought to India.
- Rs. 5,000 earned in India but received in Canada.
- Rs. 10,000 earned and received in Srilanka from a business controlled from India.
- House property income (Computed) from Srilanka Rs. 2,000
- Rs. 4,000 was past untaxed foreign income which was brought to India during the previous year.
- Profit earned from a business in Kanpur Rs. 10,000.

Computed his total income for the assessment Year 2019-20, if he is

- Resident
- Not ordinary resident and
- Non resident

14. (a) Calculate the ARV, from the particulars given below:

Particulars	House – I Rs.	House – II Rs.
Standard Rent	1,90,000	80,000
Municipal Rental Value	1,91,000	90,000
Fair Rental Value	2,05,000	72,000
Rent Received	-	85,000
Municipal Tax	25,000	8,000
Fire Insurance	4,000	1,700
Interest on Loan Borrowed for Construction of building	18,000	12,000
Nature of Occupation	Self	Rental

Determine the Income from House property of Mr.Suman.

(or)

(b) Explain any 10 fully exempted incomes.



தொன் போஸ்கோ கல்லூரி

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முதுகலைத் தமிழ் இரண்டாமாண்டு - மூன்றாம் பருவம்

சுழற்சித் தேர்வு - (செப்டம்பர் - 2019)

தொன் - தமிழக வரலாறும் பண்பாடும்

காலம் : 2 மணி

17PTA13

மதிப்பெண் : 50

பகுதி - அ

(4X5=20)

I. அனைத்து வினாக்களுக்கும் விடையளி.

1. அ) சங்ககால வரலாறு மற்றும் நிலப்பரப்பு பற்றி எழுதுக.
(அல்லது)
ஆ) பழைய கற்கால மக்களின் வாழ்க்கை முறைகளை விவரி?
2. அ) இரும்புக்காலம் குறித்து நிறுவுக.
(அல்லது)
ஆ) தொல்காப்பியருக்கு முற்பட்ட தமிழர் நாகரிகமும் பண்பாடும் பற்றி எழுதுக.
3. அ) சோழர் கால வட எல்லைகளை விளக்குக.
(அல்லது)
ஆ) பல்லவர் கால வரலாற்றினைப் புலப்படுத்துக.
4. அ) தமிழ்நாட்டுக் குடைவரைக் கோயில்கள் பற்றி இயம்புக.
(அல்லது)
ஆ) சங்ககால அரசியலையும், மக்களின் வாழ்க்கை முறைகளையும் எடுத்துரைக்க.

பகுதி - ஆ

(2x15=30)

II. கீழ்க்காணும் வினாக்களுக்கு விடையளி.

6. அ) சங்ககால வரலாறு பற்றிக் கட்டுரை வரைக.
(அல்லது)
ஆ) தமிழ்நாட்டு எல்லைகள் குறித்து விளக்குக.
7. அ) தொல்காப்பியருக்கு முன்பிருந்தக் கலைகளைப் புலப்படுத்துக.
(அல்லது)
ஆ) சோழர்களின் வரலாற்றினை ஆய்க.



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CYCLE TEST- SEPTEMBER 2019 COMPLEX ANALYSIS

Class	: III B.Sc. Maths	Marks	: 50
Paper Code	: 17UMA11	Time	: 2Hrs

Section – A

I Answer ALL the questions:

(5x2=10)

1. Define a contour integral.
2. What is the statement of n^{th} derivative formula for Cauchy integral formula?
3. Define simply connected region.
4. Write down the condition of bilinear transformation.
5. Evaluate $\int_C \frac{z^2-z}{(z-2)^3} dz$; $|z| = 3$.

Section – B

II Answer ALL the questions:

(4x5=20)

6. a) Derive the statement of Goursat's lemma.
(or)
b) Write the elementary transformation of $w = \sin z$.
7. a) If C is the positive oriented unit circle $|z| = 1$ and $f(z) = \exp(2z)$ then find $\int_C \frac{f(z)}{z^4} dz$.
(or)
b) Let $f(z)$ be continuous on a domain D . If $\int_C f(z) dz = 0$ for every closed contour C in D then prove that f is analytic throughout D .
8. a) State the fundamental theorem of Algebra and prove it.
(or)
b) If a function f is analytic and not constant in a given domain D , then prove that $|f(z)|$ has no maximum value in D . That is, there is no point z_0 in the domain such that $|f(z)| \leq |f(z_0)|$ for all points z in it.

9. a) If a function f is entire and bounded in the complex plane, then prove that $f(z)$ is constant throughout the plane.
(or)
b) Find $w = e^z$, the image of the infinite strip $0 \leq y \leq \pi$ in the upper half $y \geq 0$.

Section – C

III Answer any TWO questions:

(2x10=20)

10. Let f be analytic everywhere inside and on a simple closed contour C , taken in the positive sense. If z_0 is any point interior to C , then prove that $f(z_0) = \frac{1}{2\pi i} \int_C \frac{f(z) dz}{z-z_0}$.
11. Explain the transformation of $w = \frac{1}{z}$.
12. (i) Find the value of Cauchy integral formula for $f(z) = \frac{z}{9-z^2}$, C is the positive oriented circle $|z| = 2$.
(ii) Solve $f(z) = \frac{z^2}{z-3}$, when the contour C is the unit circle $|z| = 1$, to apply the Cauchy – Goursat theorem.
13. Find the bilinear transformation of $z = 1, 0, -1$ are to be mapped onto $w = i, \infty, 1$.

**MODEL EXAMINATION – OCTOBER – 2019
MANAGEMENT INFORMATION SYSTEM**

Class	: III BBA	Marks	: 75
Paper Code	: 17UBA13	Time	: 3 Hrs

SECTION – A**I Answer all the questions: (10X2=20)**

1. Define management information system.
2. What are the needs of information?
3. Discuss briefly the term of central processing unit.
4. List out the various kinds of output devices.
5. "System implementation"-Brief out the term.
6. Distinguish between system and system design.
7. Enumerate short note on data base management.
8. What is meant by managerial support system?
9. Expand: TPIS, MIS, DMS.
10. Write a short note on "FMIS".

SECTION – B**II Answer all the questions: (5X5=25)**

11. (a) Explain the various sources of information in a organization.
(or)
(b) Discuss about management decision.

12. a) Discuss briefly the basic structure of personal computer.

(or)

- b) Describe any four kinds of output device.

13. a) Write the various classification of system.

(or)

- b) Write a short note on expert system.

14. a) Briefly explain objectives of database.

(or)

- b) What are the advantages of DBMS?

15. a) What is accounting information system?

(or)

- b) List out the various HRIS.

SECTION – C**III Answer any three questions: (3X10=30)**

16. Discuss the internal external factors that influence organization.
17. List out the various kinds of input device.
18. Discuss the elements of a system in detail.
19. Explain decision support system in MIS.
20. Describe in detail "production management information System".



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MODEL EXAMINATION – OCTOBER - 2019 INORGANIC CHEMISTRY - I

Class : III B.Sc. Chem. Marks : 75
Paper Code: 17UCH05 Time : 3 Hrs

SECTION – A

Answer ALL the questions: (10x2=20)

1. What are lewis acids?
2. Mention any two merits of liq.NH₃ as solvent.
3. State various oxidation state of lanthanides and Actinides.
4. Write the preparation of ThO₂.
5. Define the EAN rule.
6. Name the following complexes:
a) K₄[Fe(CN)₆] b) [Ag(NH₃)₂]Cl
7. Give any two limitations of VB theory.
8. Construct the order of spectrochemical series.
9. How will you identify Ni and Cu?
10. Draw the structure of Ni-DMG.

SECTION – B

Answer ALL the questions: (5x5=25)

11. (a) Mention any five reactions in liquid SO₂.
(or)
(b) Discuss the Arrhenius and Bronsted-lowry concept of acids and bases with examples.
12. (a) Write a comparison between lanthanides and actinides.

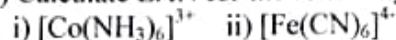
(or)

(b) How are lanthanides isolated from monazite sand?

13. (a) Describe about Werner's theory of Coordination complexes.

(or)

(b) Calculate EAN for the following:



14. (a) Give the postulates of valence bond theory.

(or)

(b) Tabulate the similarities and differences of VBT and CFT.

15. (a) Illustrate the EDTA titration in hardness of water.

(or)

(b) Applying trans effect, how will you synthesis cis and trans forms of dichlorodiamine platinum (II) complexes.

SECTION – C

Answer any THREE questions: (3x10=30)

16. Explain the principle and classification of hard, soft acids and bases and its applications.
17. Name the ores of Uranium. How is pure uranium extracted from its ore?
18. Describe the various types of isomerism exhibited by coordination complexes.
19. Write the splitting of d orbitals in octahedral and tetrahedral complexes with d¹, d⁵ and d⁸ CFSE values.
20. Discuss the theories of trans effect.



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MODEL EXAM - OCTOBER - 2019

RESEARCH METHODOLOGY

Class : II M.Com Marks : 75

Paper Code : 17PCM09 Time : 3 Hrs

SECTION – A

I. Answer ALL the Questions (5×5=25)

1. a) What do you understand by research methodology?
(or)
b) State the features of research design.
2. a) Explain various steps in sampling.
(or)
b) Write the characteristics of sampling errors.
3. a) Differentiate primary data from secondary data.
(or)
b) List out the various sources of data collection.
4. a) Point out the limitations of tests of hypotheses.
(or)
b) Bring out the qualities of good hypothesis.
5. a) Who are the target audience of the research report?

(or)

- b) State the role of glossary in the research report.

SECTION – B

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

6. a) Describe the different types of research.
(or)
b) Mention the quality of a good research problem.
7. a) Describe the types of sampling techniques.
(or)
b) Critically examine the role of sampling in the research.
8. a) Discuss the characteristics of good hypothesis.
(or)
b) Point out the merits and limitation of primary data.
9. a) Explain the various tools used in data analysis.
(or)
b) Narrate the type I and II error.
10. a) What are the qualities of a good research report
(or)
b) Explain the various parts included in the appendices.



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MODEL EXAM - OCTOBER – 2019

CAPITAL MARKET

Class	: II B.Com. (CA)	Marks : 75
Paper Code:	17UCCS01	Time : 3 Hrs

SECTION – A

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

1. Define the Capital market.
2. Write short notes on investigation.
3. What is investor protection?
4. Explain SEBI.
5. Give the meaning of rating agencies.
6. Define Indian trade mark.
7. State the meaning of stock price.
8. Expand CRA.
9. Who are the depositories?
10. Point out 3P's of capitalization.

SECTION – B

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

11. a) Write about recent developments in capital market.

(or)

- b) List out the role of SEBI.

12. a) Discuss about investor protection.

(or)

- b) What do you understand about financial innovation.

(or)

13. a) Evaluate FITCH rating.

(or)

- b) Explain the rating process available in CRISIL?

14. a) Explain the demat trading and depositories.

(or)

- b) Develop the approach of fundamental analysis.

15. a) Explain: a) Inflation

b) GDP

(or)

- b) List out various types of stock.

SECTION – C

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

16. What are the functions or roles of capital market?
17. Explain in detail about invest.
18. Compare EGAN-JONES and DBRS.
19. What are the measures used in BSE, NSE and SENSEX?
20. Elaborate the growth potential and inflation of gross domestic product.



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MODEL EXAMINATION – OCTOBER 2019 FUNDAMENTALS OF DIGITAL COMPUTERS

Class : II BCA
PaperCode :17UCA03

Marks: 75
Time :3Hrs

SECTION – A

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

1. Define analog signals.
2. Write the binary equivalent 0 to15.
3. Draw the basic gates.
4. How to write truth table for Karnaugh map?
5. Delineate encoder.
6. State binary number system.
7. What is ASCII code?
8. Sketch RS-flip flop.
9. Term register.
10. Expand ROM, PROM, EEPROM, RAM.

SECTION – B

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

11. a) Explain the concept of digital wave forms.
(or)
b) Discuss about universal logic gates.

12. a) Compare Pairs, Quads, Octets with an example.
(or)
b) Elucidate the BCD-to-Decimal Decoder.
13. a) Enlighten the concept of JK Master slave flip flops.
(or)
b) Illustrate the arithmetic building blocks.
14. a) Write a short note on decimal to binary conversion with an example.
(or)
b) Compare ASCII Code and Excess-3 code with an example.
15. a) Discuss the simple computer design.
(or)
b) Summarize the serial in – parallel out.

SECTION – C

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

16. Discuss the digital integrated circuits.
17. Write in detail about Karnaugh map simplification.
18. Elaborate the concept of edge triggered D-flip-flop.
19. Discuss about 2'S complement Representation and arithmetic.
20. Describe the magnetic memory.

*****ALL THE BEST*****



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MODEL EXAMINATIONS – OCTOBER 2019 OPERATING SYSTEM

Class : III B.Sc., CS

Marks : 75

Paper Code : 17UCS07

Time : 3 Hrs

SECTION – A

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

1. Define OS.
2. What do you mean by process?
3. Write the difference between a process and a thread.
4. How do you find the critical region?
5. Give the concept of paging.
6. How does round robin scheduling work?
7. State the deadlock.
8. Write a note on multiprocessor.
9. Expand RAID.
10. Why do we need files?

SECTION – B

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

- 11 a) Illustrate the history of operating system.
(or)
b) Write short notes on miscellaneous system calls.

12. a) Clarify the concept of thread and its types.
(or)

b) Why do we use semaphore?

13. a) Discuss in detail about memory management.
(or)

b) Elucidate the first in-first out page replacement algorithm.

14. a) Summarize the multiprocessors.
(or)

b) Elucidate the deadlock detection and recovery.

15. a) Elaborate the principles of I/O software.
(or)

b) Give a short note on hierarchical directory systems.

SECTION – C

III. Answer any THREE questions: (3 X10 = 30)

16. Describe operating system concepts.
17. What are the different types of inter-process communication methods?
18. Explain page replacement algorithms.
19. Enumerate the deadlock avoidance with an example.
20. Differentiate principles of I/O software and hardware.



**MODEL EXAM – OCTOBER – 2019
PRINTING PROCESS & MATERIALS**

Class : II B.Sc D.P.M Marks: 75
Paper code : 17UDP04 Time : 3 hrs

SECTION – A

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

1. Write a short notes on planography.
2. Define relief process.
3. Mention manual composing.
4. Write about gravure printing.
5. State the stock preparation.
6. Define paper pulp.
7. Explain testing of board.
8. What are the board properties?
9. Write about glossy ink.
10. Define ink dryers.

SECTION – B

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

11. (a) Write the historical background of printing Process.
(or)
(b) Describe the intaglio and planography process.

12. (a) What are the advantages of screen printing?
(or)
(b) Write in detail the process of electronic composing.

13. (a) What are the various operations in paper making process?
(or)
(b) Explain pulping and bleaching process.

14. (a) Write the various stages in board making process.
(or)
(b) Explain the properties in testing.

15. (a) Describe the various ink drying method.
(or)
(b) Name the ink types used in printing process.

SECTION – C

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

16. Explain in detail the emergence of the four printing Process.
17. Write brief notes on letter press, offset and screen printing.
18. Describe the different industrial applications of paper and boards.
19. Explain the paper sizes and its properties.
20. What are the characteristics of printing inks?



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MODEL EXAMINATION – OCTOBER 2019 SOFT SKILLS FOR CAREER COMMUNICATION

Class : II B.A. English Marks : 75
Paper Code : 17UENS02 Time : 3 Hrs

Section – A

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

1. Explain 'Descriptive Essay.'
2. List out the advantages of effective reading.
3. Define Collective Noun.
4. What is meant by content words?
5. Mention the two kinds of people in our society.
6. Give a short note on objective of Guidance.
7. What is the basic principle of lateral thinking?
8. Elucidate the types of stress.
9. What is meant by Authoritarian style of leadership?
10. Explain Momentum.

Section - B

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

11. a) Describe the need for communication.
(or)
b) Write a note on combination resume.

12. a) Explain the uses of past tense.
(or)
b) Distinguish between stressed and unstressed syllable.
13. a) Mention the steps involved in career planning.
(or)
b) Elucidate the hard and soft skills.
14. a) Does the thinking skill support one to achieve one's target?
(or)
b) What are the attributes of time management?
15. a) Write a paragraph on the forms of technical communication.
(or)
b) Write a paragraph on the importance of Group Discussion.

Section – C

**III. Answer any three of the following questions:
(3 x 10 = 30)**

16. Bring out the importance of communication.
17. What are the basic sentence structures in English language?
18. Write an essay on the role of Libraries in Guidance and Counseling.
19. How could one lead a balanced life in the hectic world?
20. Bring out how Bloom's philosophy is relevant in the present day context of acquiring soft skills.



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MODEL EXAM – OCTOBER 2019

DIGITAL ELECTRONICS

Class : III B.Sc. PHYSICS Marks: 75

Paper Code: 17UPHS04 Time : 3 Hrs

PART – A

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

1. Convert $(111010)_2$ to octal number.
2. Define Excess-3 code.
3. Write associative laws of Boolean algebra.
4. What do you mean by k-map and POS?
5. Define: Decoder and Encoder.
6. State Multiplexer and De-multiplexer.
7. What is meant by shift register?
8. What is a flip flop? Give its uses.
9. Define A/D and D/A converter.
10. Give the applications of shift registers.

PART – B

II. Answer ALL the questions: (5X5=25)

- 11.a) Show that NOR gate is an universal gate.
(or)
b) State and prove Demorgan's theorems.
- 12.a) Explain two variable k-map simplification using minterm.
(or)
b) Simplify using k – map
 $Y = f(A,B,C) = \Sigma(1,2,3,5,7)$

13. a) Describe the working of an half adder and full adder with truth table.

(or)

- b) Discuss the working of multiplexer and de-multiplexer.
14. a) Explain the RS flip flop using NOR gate.

(or)

- b) Explicate the function of clocked RS flip flop using NAND gates.
15. a) Elucidate the 4-bit asynchronous counter with neat circuit diagram.

(or)

- b) Give explanation with neat diagram the working principle of A/D converter.

PART – C

III. Answer any THREE questions: (3X10=30)

16. (a) Draw the symbols of basic logic gates and write their truth tables.
(b) Show that NAND gate is an universal building block.
17. Simplify the following expression using k-map $F = \Sigma m(0,1,3,5,7,9,11,12,13,14,15)$.
18. Describe the half subtractor and the full subtractor circuit construction using NAND gates.
19. Explain the working of J-K master slave flip flop.
20. Discuss the working of R-2R ladder by D/A converter.



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MODEL EXAM – OCTOBER 2019 ALLIED PHYSICS - I

Class : II B.Sc. (Che, Mat, CS) Marks: 75
Paper Code: 17UPHA01 Time: 3 Hrs

Section – A

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

1. Define Young's modulus.
2. What is surface tension?
3. Define Reverberation time.
4. Write the advantages of piezo-electric method.
5. What is temperature of inversion?
6. Give the results of Joule-Kelvin porous plug experiment.
7. State Newton's law of gravitation.
8. State Kepler's laws of planetary motion.
9. What is circuit breaker?
10. List out the significance of fuse.

Section – B

II. Answer ALL the questions: (5X5=25)

- 11.a) Obtain an expression for the period of oscillation of a torsion pendulum.
(or)
b) Write an expression for the depression at the midpoint of a beam loaded at centre of the beam.
- 12.a) How can the frequency of the A.C. mains can be determined by using a sonometer?

(or)

b) How will you produce ultrasonics waves using piezo-electric method?

13.a) Describe the Lee's disc method of finding the thermal conductivity of a bad conductor.
(or)

b) Derive an expression for coefficient of thermal conductivity.

14.a) Discuss the Boy's method of calculation of gravitational constant.
(or)

b) State and explain Newton's law of gravitation. Why is it said to be a universal law?

15.a) How will you calibrate the readings of a low range voltmeter using a potentiometer?
(or)

b) How to determine the internal resistance of a cell using potentiometer?

Section – C

III. Answer any THREE questions: (3X10=30)

16. Describe static torsion method to find the rigidity modulus of the material.
17. Write an essay on acoustics of buildings.
18. Explain Joule-Kelvin porous plug experiment with necessary theory.
19. Deduce an expression for variation of g with altitude and depth.
20. Explain with necessary theory how Carey Foster bridge can be used to measure known resistance to unknown resistance.



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MODEL EXAMINATION – OCTOBER 2019 GENERAL CHEMISTRY-I

Class : I B.Sc. Chemistry.	Marks : 75
Paper Code : 17UCH01	Time : 3 Hrs

SECTION - A

Answer ALL the questions: (15×1=15)

- In Lewis concept of acid and base, acid is an
a) Electron pair donor b) Electron pair acceptor c) Proton donor
d) Proton acceptor
- $Fe^{2+} + Ce^{4+} \longrightarrow Fe^{3+} + Ce^{3+}$ is an example of
a) Oxidation b) Reduction c) Redox d) Complexometric
- The number of gram equivalent of solute present in one litre of solution is
a) Molarity b) Molality c) Mole fraction d) Normality
- Nucleon is a combination of
a) ${}_1H^1$ and ${}_0n^1$ b) ${}_1H^1$ and ${}_{-1}e^0$ c) ${}_1H^1$ and ${}_{+1}e^0$ d) ${}_0n^1$ and ${}_{-1}e^0$
- Rutherford model of atom is an scattering of
a) Beta particles b) Alpha particles c) Gamma particles d) no charge
- Azimuthal quantum number determines the of the orbital.
a) Shape b) Energy c) Volume d) Magnetic
- The orbital with a lower energy filled up first before filling of orbital with higher energy.
a) Pauli's principle b) Hund's rule c) Aufbau principle d) n+l rule
- In Ionisation energy, we move from top to bottom
a) Decreases b) Increases c) equal d) more than one
- Stable oxidation state of lanthanides is
a) +1 b) +2 c) +3 d) +4
- In Boyle's law, pressure is proportional to volume.
a) directly b) inversely c) equal to d) not equal to
- Ideal gas equation is
a) $PV=TP$ b) $PV=nT$ c) $PV=nR$ d) $PV=nRT$

- According to Avogadro's law, volume is directly proportional to
a) Temperature b) No. of molecules c) Pressure d) Volume
- Give the IUPAC name of compound. $CH_3CH_2CH_2CH_2COOH$.
a) 1-hexanoic acid b) 1-hexanol c) 1-pentanone d) 1-pentanoic acid
- Geometry of SP^3 hybridisation is
a) tetrahedral b) planar c) octahedral d) linear
- Symbol of an electrophile is
a) Br^+ b) NO_2^+ c) OH^+ d) CH_4

SECTION - B

Answer ANY TWO questions: (2×5=10)

- Discuss the primary and secondary standard of solutions.
- Write a note on Rutherford's atom model.
- State Pauli's exclusion principle and Hund's rule.
- What are the factors affecting electronegativity?
- Derive kinetic gas equation.

SECTION - C

Answer ALL the questions: (5×10=50)

- a) Give the First aid procedure, safety and hygiene in chemical Laboratory. (or)
b) Explain the principle of acid-base titration and redox titration.
- a) Discuss the postulates and limitations of Bohr's atom model. (or)
b) Elaborate the various types of quantum numbers.
- a) What are the factors affecting ionization energy and electron affinity? (or)
b) Write the characteristic properties of d and f block elements.
- a) Mention the preparation and properties of alkenes. (or)
b) Describe the free radical mechanism of alkenes.
- a) Derive the Maxwell distribution of molecular velocities. (or)
b) Justify the following:
i) Collision diameter, ii) Collision frequency, iii) Mean free path



தொன் போஸ்கோ கல்லூரி

அதியாண் டுலுத்தி சாலை, சோகத்தூர் கருதல், தருமபுரி 636 009
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முதுகலைத் தமிழ் இரண்டாமாண்டு - மூன்றாம் பருவம் மாதிரித் தேர்வு - (அக்டோபர் - 2019) தாள் - பெரியாரியல்

காலம் : 3 மணி நேரம் 17PTA12 மதிப்பெண் : 75

பகுதி - அ

I. அனைத்து வினாக்களுக்கும் விடையளிக்க. (5X3=15)

- (அ) 'நீதிக்கட்சி' குறித்து எழுதுக. (அல்லது)
 (ஆ) பகுத்தறிவு என்றால் என்ன?
- (அ) 'கவிஞர் வேமனா' - குறிப்பு வரைக. (அல்லது)
 (ஆ) வைக்கம் போர் பற்றி எழுதுக.
- (அ) ஈ.வேரா. 'குடியரசு' இதழ் தொடங்கியதற்கான நோக்கங்கள் யாவை? (அல்லது)
 (ஆ) 'மிரம் சமாஜம்' பற்றி விளக்குக.
- (அ) பெண்ணடிமைக்கானக் காரணங்களைக் குறிப்பிடுக. (அல்லது)
 (ஆ) விதவை மறுமணம் குறித்து விளக்குக.
- (அ) ஈ.வேராவின் எழுத்துச் சீதிருத்தம் பற்றிப் புலப்படுத்துக. (அல்லது)

(ஆ) வகுப்புவரி உரிமை பற்றி ஈ.வேரா. கூறுவன யாவை?

பகுதி - ஆ

II. கீழ்க்காணும் வினாக்களுக்கு விடையளி. (5X12=60)

- (அ) பெரியாரின் சுயமரியாதைக் கொள்கைகள் பற்றி விவரி. (அல்லது)
 (ஆ) பெரியாரின் வாழ்வும், பணியும் குறித்து ஆராய்க.
- (அ) நாராயணகுரு, பசவர் ஆகியோரின் சமூகப் பணிகளை விளக்குக. (அல்லது)
 (ஆ) சிவலாக்கியாரின் சமூகச் சீர்திருத்தம் பற்றித் தொகுத்துரைக்க.
- (அ) சிற்றிலக்கிய மரபும் குறித்துக் கட்டுரை வரைக. (அல்லது)
 (ஆ) செங்கற்பட்டு சுயமரியாதை மாநாட்டின் தீர்மானங்களைத் தெளிவுப்படுத்துக.
- (அ) பெண் விடுதலை பற்றித் தொகுத்தெழுதுக. (அல்லது)
 (ஆ) 'கற்பு' பற்றி ஈ.வேரா. கூறும் விளக்கத்தை ஆய்க.
- (அ) கோயில் நுழைவுப் போராட்ட வரலாற்றை விவரிக்க. (அல்லது)
 (ஆ) தன்மதிப்பு - சமத்துவம் - சகோதரத்துவம் குறித்து மதிப்பிடுக.



Model Exam – October - 2019
Classical Algebra

Class : I B.Sc. Maths
Paper Code: I7UMA01

Max Marks: 75
Time : 3Hrs

Section- A

I Answer ALL the questions: (15x1=15)

- _____ problems using binomial series.
 (a) Approximation (b) Only square root (c) Diagonal
 (d) Cubic root
- If n is a rational number and $-1 < x < 1$ the infinite series is also called _____ series.
 (a) Exponential (b) Binomial (c) Logarithmic (d) Power
- An integer = an integer + a _____ which is absurd.
 (a) Rational (b) Real (c) improper fraction (d) Proper fraction
- Every square matrix satisfies its own characteristic equation is
 (a) Latent root (b) Eigen vector (c) Cayley-Hamilton theorem
 (d) Newtons method
- The given system of equation is _____ since there are infinite number of solutions.
 (a) Constant (b) Co-efficient (c) Inconsistent (d) Consistent
- The Characteristic roots of a _____ matrix are real.
 (a) Hermilian (b) Square (c) Symmetric (d) skewsymmetric
- In a polynomial equation with real co-efficient imaginary roots occur in _____.
 (a) Conjugate pairs (b) Real (c) Imaginary (d) Rational

- If $\alpha + \sqrt{\beta}$ is a root of $f(x) = 0$ then _____ is also a root of $f(x) = 0$.
 (a) $\alpha + \beta$ (b) $\alpha - \beta$ (c) $\sqrt{\alpha} + \beta^2$ (d) $\alpha - \sqrt{\beta}$
- An equation of the form a_0, a_1, \dots are all constants and $a_0 \neq 0$ is known as _____ integral equation.
 (a) Real (b) Imaginary (c) Irrational (d) Rational
- A reciprocal equation the co-efficient of the terms _____ from the beginning and end.
 (a) Reciprocal (b) Polynomial (c) equidistant
 (d) None of the above
- The forming equation whose roots are $\phi(\alpha_1), \phi(\alpha_2), \dots$ is called _____ of the equation.
 (a) Transformation (b) Real (c) Rational (d) Reciprocal
- The successive co-efficient can be determined by the method of _____
 (a) Division algorithm (b) Multiplication (c) Synthetic division
 (d) None of the above
- In remove the second term of the equation the value h is
 (a) na_0 (b) $-\frac{a_1}{na_0}$ (c) $\frac{a_1}{na_0}$ (d) $\frac{na_1}{a_0}$
- Using _____ of signs we can determine the minimum number of imaginary roots of an equation.
 (a) Cramer's Rule (b) Positive (c) Negative (d) Descartes Rule
- The general formula for the best approximated value of the root as
 (a) $x_{n+1} = x_n - \frac{f(x_n)}{f'(x_n)}$ (b) $x_{n+1} \neq x_n - \frac{f(x_n)}{f'(x_n)}$
 (c) $x_{n+1} = x_n + \frac{f(x_n)}{f'(x_n)}$ (d) $x_{n+1} = x_n$

Section – B

II Answer any TWO questions: (2x5=10)

16. If $-1 < x < 1$ then show that $\log_e(1+x) = x - \frac{x^2}{2!} + \frac{x^3}{3!} - \dots \dots \infty$
17. Verify Cayley – Hamilton theorem for the matrix $\begin{bmatrix} 1 & 2 & 1 \\ 0 & 1 & -1 \\ 3 & -1 & 1 \end{bmatrix}$
18. If α, β, γ are the roots of the equation $x^3 + px^2 + qx + r = 0$ then find the value of
(i) $\sum \alpha^2$ (ii) $\sum \alpha^2 \beta$ (iii) $\sum \alpha^2 \beta^2$.
19. Solve the equation $x^4 - 8x^3 + 19x^2 - 12x + 2 = 0$ by removal of its second term.
20. Discuss the nature of roots of the equation $x^6 + 3x^2 - 5x + 1 = 0$

Section – C

III Answer ALL the questions: (5x10=50)

21. a) Find the sum to infinite of the series

$$\frac{1}{9.18} - \frac{1.3}{9.18.27} + \frac{1.3.5}{9.18.27.36} - \dots \dots$$

(or)

b) Show that $\log_e(1 + \frac{1}{n})^n = 1 - \frac{1}{2(n+1)} - \frac{1}{2.3(n+1)^2} - \dots \dots \infty$.

22. a) Diagonalizable the matrix $\begin{bmatrix} 2 & -2 & 3 \\ 1 & 1 & 1 \\ 1 & 3 & -1 \end{bmatrix}$

(or)

b) Find the characteristic root and the associated characteristic

vector of the matrix $A = \begin{bmatrix} 8 & -6 & 2 \\ -6 & 7 & -4 \\ 2 & -4 & 3 \end{bmatrix}$.

23. a) If α, β, γ are the roots of the equation

$$x^3 - x - 1 = 0, \text{ then prove that } \sum \frac{1+\alpha}{1-\alpha} = -7.$$

(or)

b) One of the roots of the equation is

$$3x^5 - 4x^4 - 42x^3 + 56x^2 + 27x - 36 = 0 \text{ is } \sqrt{2} + \sqrt{5}. \text{ Find the other roots.}$$

24. a) Solve the reciprocal equation

$$2x^6 - 9x^5 + 10x^4 - 3x^3 + 10x^2 - 9x + 2 = 0.$$

(or)

b) Prove that if α is a root of the equation

$$x^4 + 9x^3 - 6x^2 - 9x + 1 = 0 \text{ so, also is } \frac{1+\alpha}{1-\alpha}. \text{ Prove that the}$$

$$\text{other two roots are } -\frac{1}{\alpha} \text{ and } \frac{\alpha-1}{\alpha+1}.$$

25. a) Using Horner's method to find the real root of the equation

$$x^3 + 29x - 97 = 0 \text{ correct to two places of decimals.}$$

(or)

b) Find an approximate root (correct to two decimal places)

$$\text{of } x^3 - 2x - 5 = 0 \text{ by Newton's method.}$$



தொன் போல்கோ கல்லூரி

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மாதிரித் தேர்வு - இளங்கலைத் தமிழ்
 முதலாமாண்டு - முதற்பகுதி (அக்டோபர் - 2019)
 இக்கால இலக்கியங்கள்

காலம் : 3 மணி நேரம் 17UTA02 மதிப்பெண் : 75

பகுதி - அ

- I. அனைத்து வினாக்களுக்கும் விடையளி. (15X1=15)**
- 1) கீழ்வருவனவற்றுள் பாரதியார் இயற்றிய நூல் யாது?
 அ) பாஞ்சாலி சபதம் ஆ) குடும்ப விளக்கு இ) ஆலாபனை
 ஈ) அலையோசை
 - 2) 'பீசிராந்தையார்' என்னும் நாடக நூலின் ஆசிரியர் யார்?
 அ) பாரதிதாசன் ஆ) பாரதியார் இ) அறிஞர் அண்ணா ஈ) நவாப்
 - 3) வரை - என்னும் சொல்லின் பொருள் தருக.
 அ) கோடு ஆ) மலை இ) நிர் ஈ) கடல்
 - 4) 'குழந்தைக்கவிஞர்' என அழைக்கப்படுபவர் யார்?
 அ) சுரதா ஆ) திரு.வி.க இ) கவிமணி ஈ) அடி. வள்ளியப்பா
 - 5) உமர்கய்யாம் பாடல்களைத் தழுவி தமிழில் பாடல்களை எழுதியவர் யார்?
 அ) சிற்பி ஆ) அப்துல் ரகுமான் இ) சி. மணி ஈ) கவிமணி
 - 6) ஆத்தாப்பொள்ளாச்சி என்ற கிராமத்தின் காவல் மரம் எது?
 அ) அரசமரம் ஆ) அத்திமரம் இ) ஆலமரம் ஈ) வேப்பமரம்
 - 7) 'தமிழ்த்தாத்தா' எனப் பாராட்டப்படுபவர் யார்?
 அ) உ.வே.சா ஆ) வ.உ.சி இ) வ.வே.சு. ஈ) மா.பொ.சி
 - 8) குறிஞ்சிப்பாட்டில் வரும் பூக்களின் எண்ணிக்கையைச் சுட்டுக.
 அ) 96 ஆ) 97 இ) 98 ஈ) 99
 - 9) தமிழ்ச் சிறுகதையின் தந்தை யார்?
 அ) அகிலன் ஆ) வ.வே.சு.ஐயர் இ) கல்கி ஈ) பூமணி
 - 10) ரா.பி. சேதுப்பிள்ளையின் 'தமிழ் இன்பம்' சாகித்திய அகாதமிப் பரிசுப் பெற்ற ஆண்டு எது?
 அ) 1955 ஆ) 1956 இ) 1957 ஈ) 1958
 - 11) 'NOVAL' எனும் ஆங்கிலச் சொல்லுக்கு நிகரானத் தமிழ்ச் சொல் தருக.
 அ) உரைநடை ஆ) புதினம் இ) சிறுகதை ஈ) புறக்கவிதை
 - 12) புதினத்தின் தாயகம் எது?

- அ) இந்தியா ஆ) அமெரிக்கா இ) இத்தாலி ஈ) பிரெஞ்சு
- 13) கும்பகாண்டின் மனைவி பெயர் என்ன?
 அ) வாமை ஆ) கேதகை இ) கனகை ஈ) மண்டோதரி
 - 14) நாடகம் எத்தனை வகைப்படும்?
 அ) இரண்டு ஆ) மூன்று இ) நான்கு ஈ) ஐந்து
 - 15) 'கனகை' என்னும் நாடகநூல் வெளிவந்த ஆண்டு?
 அ) 1897 ஆ) 1891 இ) 1976 ஈ) 1855

பகுதி - ஆ

- II. எவையேனும் இரண்டு வினாக்களுக்கு விடையளி. (2X5=10)**
- 16) அஸ்திநாபுத்தின் எழிலை பாரதியார் எங்ஙனம் பாராட்டுகிறார்?
 - 17) 'ஒரு கிராமத்து நதி' பற்றிச் சிற்பி சித்திரிக்கும் முறையை விளக்குக.
 - 18) இருபதாம் நூற்றாண்டுத் தமிழ்க் கவிதைகள் பற்றி எழுதுக.
 - 19) ராக்கியண்ணலின் சமூகப் போராட்டத்தைப் புலப்படுத்துக.
 - 20) நாடகம் சிறக்க உதவும் உத்திகளை வகைப்படுத்துக.

பகுதி - இ

- III. அனைத்து வினாக்களுக்கும் விடையளி. (5 X10=50)**
- 21) அ) துரியோதனின் சூழ்ச்சியைப் புலப்படுத்துக.
 (அல்லது)
 ஆ) இதிகாசங்கள் நம்பத்தகாதவை என்பதற்குப் பாரதிதாசன் உரைக்கும் காரணங்களை ஆய்க.
 - 22) அ) உமர்கய்யாம் கவிதைகளில் இடம்பெறும் இயற்கை வரணனைகளை விவரி.
 (அல்லது)
 ஆ) சிற்பி கூறும் 'மூன்று கனவுகள்' குறித்துக் கட்டுரை வரைக.
 - 23) அ) 'இறுவாத கவிதை' பற்றி அ.மு. பரமசிவானந்தம் கூறும் கருத்துகளைத் தொகுத்தெழுதுக.
 (அல்லது)
 ஆ) க.ப. அறவாணன் கூறும் மொழிப்பற்றினை மதிப்பிடுக.
 - 24) அ) ஜெயகாந்தனின் 'பூ வாங்கலியா பூ...' சிறுகதை உணர்த்தும் சமூக நீதியைப் புலப்படுத்துக.
 (அல்லது)
 ஆ) 'ஒடைப்புல்' நாவலின் மையக்கருத்தினை விளக்குக.
 - 25) அ) நாடகத்தின் தோற்றம், வளர்ச்சி குறித்து விவரி.
 (அல்லது)
 ஆ) 'கனகை' என்னும் பாத்திரத்தின் பண்புநலன்களைத் தொகுத்துரைக்க.



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MODEL EXAM – OCT 2019

LINEAR ALGEBRA

CLASS : I M.Sc., MATHS
PAPER CODE : 17PMA01

MARKS : 75
TIME : 3 Hrs

SECTION – A

I. Answer ALL the questions:

(15X1=15)

- Verify the $L(V,W)$ is
 - vector space
 - Linear space
 - Both a & b
 - None of these
- Which one satisfies singular and non-singular
 - $V=0$
 - $V \neq 0$
 - $T(V)=0$
 - $T(V)=0; V=0$ & $T(V) \neq 0; V \neq 0$
- If V be the vector space of all $n \times n$ matrix over F , if $T(A)=AB-BA$, for all A belongs to V , then the value of $T(aA_1 + bA_2)$ is
 - $aT(A_1)+T(A_2)$
 - $aT(A_1)+bT(A_2)$
 - Both a & b
 - None of these
- The polynomial $x^4 + 2x^3 + x^2 + 1$ is
 - Identity polynomial
 - polynomial
 - Monic polynomial
 - a and b
- Choose the space of $\dim V=n$ and $\dim V^* =n$ is
 - Double dual space
 - Dual Space
 - Empty space
 - Null space
- The composition of the product is a linear algebra iff the space one dimensional is
 - $(TU)V=(UT)V$
 - $T=U$
 - Both a & b
 - $U=T$
- Which one satisfies the inverse of matrix is
 - $A^{-1} = adjA$
 - $A^{-1} = \frac{1}{|A|} adjA$
 - $A^{-1} = \frac{1}{|A|}$
 - $A^{-1} = |A| adjA$
- What is the value of σ in even and odd permutation is
 - 1 and 2
 - 3 and 4
 - 4 and 9
 - 1 and -1
- If the diagonalizable elements of the matrix are
 - unique
 - equal
 - zero
 - distinct
- Find the characteristic roots of the matrix $A = \begin{bmatrix} 0 & -1 \\ 1 & 0 \end{bmatrix}$
 - $-i$
 - i
 - $\pm i$
 - 1
- If the value of $E^2 = E$ is
 - projection
 - imaginary
 - real value
 - complex
- What is the condition of minimal polynomial is
 - monic polynomial
 - monic with ideal polynomial
 - ideal
 - none
- If N is row equivalent to M , if N can be obtained from M by a finite succession of elementary row operation $M = M_0 \rightarrow M_1 \rightarrow \dots \rightarrow M_k = N$ is
 - row equivalent
 - column equivalent
 - both a & b
 - none of these

14. Which one satisfies the Jordan form is
 a) $N_i = T_i - C_i I$ b) $N_i = T_i$ c) $N_i = C_i I$ d) $N_i = I$
15. If the minimal polynomial divides the characteristic polynomial for T is
 a) Hamilton b) Cayley Hamilton c) cyclic decomposition d) none of these

SECTION - B

II. Answer any TWO questions: **(5X2=10)**

11. Let V and W be vector spaces over the field F and let T be the linear transformation from V into W. Suppose that V is finite dimensional, then prove that $\text{rank}(T) + \text{nullity}(T) = \dim V$.
12. Let f and g be non-zero polynomials over F. Prove that the following.
 i) fg is a non zero polynomial ii) $\deg(fg) = \deg f + \deg g$.
13. Prove that similar matrices have the same characteristic polynomial.
14. Let V be finite dimensional vector space over the field F and T be a linear operator on V. Prove that T is triangulable if the minimal polynomial for T is a product of linear polynomials over F.
15. If T be a linear operator on a finite dimensional vector space. Prove that every T-admissible subspace has complementary subspace which is also invariant under T.

SECTION - C

III. Answer ALL the questions: **(5x10=50)**

16. Let V and W be a finite dimensional vector spaces over the field F such that $\dim V = \dim W$. If T is a linear transformation from V into W, then prove that the following are equivalent.
 i) T is invertible
 ii) T is non singular
 iii) T is onto, that is the range of T is W.
(or)
 (b) Prove that every n-dimensional vector space over the field F is isomorphic to the space F^n .
17. Derive Taylor's formula.
(or)
 (b) Prove that a linear combination of n-linear functions is n-linear.
18. State and prove Cayley-Hamilton theorem.
(or)
 (b) Let K be a commutative ring with identity, and let A and B be nxn matrices over K. Prove that $\det(AB) = (\det A)(\det B)$.
19. Explain about Primary decomposition theorem.
(or)
 (b) Let V be finite dimensional vector space over the field F and T be a linear operator on V. Prove that T is diagonalizable if the minimal polynomial for T has the form
 $p = (x-c_1)(x-c_2)\dots(x-c_k)$, where c_1, c_2, \dots, c_k are distinct elements of F.
20. Extract the Cyclic decomposition theorem.
(or)
 (b) Let F be a field and B be a nxn matrix over F, prove that B is similar over the field F to one and only one matrix which is in rational form.



MODEL EXAMINATION - OCTOBER – 2019
FINANCIAL MANAGEMENT

Class : II-BBA
Paper Code : 17UBA05

Marks : 75
Time : 3 Hrs

SECTION - A

I - Answer all the questions:

(10X2=20)

1. What is Financial Management?
2. Define Capital Budgeting.
3. Explain Cost of Capital.
4. What do you mean by Financial Leverage?
5. Write a short note on Temporary Working Capital.
6. State the meaning of Financial Decision.
7. Explain Preference Share Capital.
8. What do you understand by Capital Structure?
9. Give the meaning of Working Capital.
10. What are the formulas used in computing IRR method?

SECTION – B

II - Answer the following questions:

(5X5=25)

11. a) Bring out the assumptions of MM approach.
(or)
b) State the concept of Cost of Capital.
12. a) What are the importance of Capital Structures?
(or)
b) Describe the advantages in Cost of Capital.
13. a) Narrate the term Management of Cash?
(or)
b) Describe the objectives of Financial Management.
14. a) Mention the methods of managing Inventories.
(or)
b) Project x initially costs Rs, 25,000. It generates the following cash flow:

Year	Cash inflow Rs	Present value @ 10%
1	9,000	0.909
2	8,000	0.826
3	7,000	0.751
4	6,000	0.683
5	5,000	0.621

Taking the cut off rate as @ 10% suggest whether the project should be accepted or not.

15. a) Briefly explain the scope of Financial Management
(or)
b) Explain different types of Leverage.

SECTION – C

III -Answer any three of the following questions:

(3X10=30)

16. Illustrate the function of financial management and the role of financial manager.
17. Ganesh steels Ltd., is considering two mutually exclusive projects. Both require an initial cash outlay of Rs. 10,000 each and have a life of five years. The companies required rate of return is 10% and pay tax at a 50% rate. The projects will be depreciated on straight line basis. The profit expected to be generated by the projects are as follows:

Year		1	2	3	4	5
Project A	Rs	4,000	4,000	4,000	4,000	4,000
Project B	Rs	6,000	3,000	2,000	5,000	5,000

Calculate:

- The payback period of each project.
 - The average rate of return for each project.
 - The net present value and profitability index for each project.
 - The method of ranking project.
18. The flowing projection has been given in respect of "O Bright Co":
- Output : 3, 00,000 units
 Fixed cost (Rs.) : 3, 50,000
 Unit variable cost (Rs.) : 1
 Interest expenses (Rs.) : 25,000
 Unit selling price (Rs.) : 3
- On the basis of above information calculate
- Operating Leverage
 - Financial Leverage
 - Combined Leverage.
19. Asin Ltd., issued 15,000 12% preference shares of Rs. 100, redeemable at 10% premium after 20 years. The floatation costs were 5%. Find out the cost of preference capital if shares are issued
- at par,
 - at premium of 5% and
 - at a discount of 10%.
20. Rose Ltd., is engaged in customer retailing. Estimate its working capital requirements from the following .
- Project annual sales : Rs, 6, 50,000
 Average percentage of net profit to cost of sales : 25%
 Average credit allowed to debtors : 10 weeks
 Average credit allowed to creditors : 04weeks
 Average stock carrying (in terms of sales requirements) : 08 weeks
 Add 20% to allow for contingencies
-



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MODEL EXAM - APRIL 2020 INORGANIC CHEMISTRY - II

Class : III B.Sc. Chem. Marks : 75
Paper Code: 17UCH08 Time : 3 Hrs

SECTION - A

Answer ALL the questions: (10x2=20)

1. Spell the composition of Zeolite.
2. Mention any two uses of $\text{Ni}(\text{CO})_4$.
3. How do you prepare t-butyl Lithium.
4. List any two uses of organometallic compounds.
5. Label the nanocomposites.
6. Find quantum dots.
7. Relate the order of halogens and pseudohalogens.
8. What is borazole?
9. State the point group of HCl and CO_2 .
10. Define magnetic susceptibility.

SECTION - B

Answer ALL the questions: (5x5=25)

11. (a) How is $\text{Cr}(\text{CO})_6$ prepared? Draw its structure and properties.
(or)
(b) Discuss the structure and classification of Silicates.
12. (a) What are organometallic compounds? How are they classified?

(or)

- (b) Deduct the synthesis and structure of Zeise's salt.

13. (a) Give an account of fullerenes and carbon nano tubes.

(or)

- (b) Interpret any five applications of nano materials.

14. (a) Describe the classification and structure of carborane.

(or)s

- (b) Tabulate the similarities and differences of halogens and pseudohalogens.

15. (a) Justify symmetry elements with its operations.

(or)

- (b) Distinguish between ferromagnetism and antiferromagnetism

SECTION - C

Answer any THREE questions: (3x10=30)

16. Explain the biological role of Haemoglobin and Chlorophyll.
17. Describe the structure and properties of Cyclopentadienyl complexes.
18. Write various methods of preparation of nanomaterials.
19. Mention the preparation, properties and uses of cyanogen and thiocyanogen.
20. How will you determine the magnetic moment by using Guoy's balance?



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MODEL EXAM – APRIL 2020 ELECTIVE – SPECTROSCOPY

Class : I M.Sc. Chem.

Marks : 75

Paper Code : 19PCHE03

Time : 3 Hrs

SECTION - A

Answer ALL the questions:

(15×1=15)

- The λ_{max} value of cyclic conjugated diene
a) 217nm b) 214nm c) 214nm d) 253nm
- The far UV region shows
a) Below 200nm b) 200 to 400 nm
c) 400 to 600nm d) above 200nm
- The number of vibrational degrees of freedom present in benzene is
a) 30 b) 24 c) 36 d) 42
- The number of ^1H NMR signals in 2-bromo butane
a) 1 b) 2 c) 3 d) 4
- The number of equivalent protons present in TMS
a) 1 b) 4 c) 9 d) 12
- The spin-spin coupling ratio intensities of alignments are
a) $1+X^n$ b) $(1+X)^n$ c) $1-X^n$ d) $(1-X)^n$
- The ^{12}C nucleus is not magnetically because
a) $I = +\frac{1}{2}$ b) $I = -\frac{1}{2}$ c) $I=0$ d) $I = 1$
- In CMR, the acetylene absorbs in the range of
a) 20 to 25ppm b) 45 to 60ppm
c) 65 to 90ppm d) 95 to 120ppm
- The number of ^{13}C NMR signals observed in methyl acetate
a) 1 b) 2 c) 3 d) 4
- Photo acoustic spectroscopy is a combination of
a) Optical methods with acoustical detection of signal
b) Adsorption emission methods
c) Instrumental methods
d) All of the above
- PAS provides a means for obtaining UV-Visible and IR adsorption spectrum of
a) Solid b) Semisolid c) Liquids d) all

- What is the functional group region of IR?
a) 1500 to 1350 cm^{-1} b) 1380 to 1050 cm^{-1}
c) Below 1000 cm^{-1} d) 1750 to 1600 cm^{-1}
- The removal of degeneracy of spin states by the internal magnetic field in paramagnetic electrons is termed as
a) Fine splitting b) zero field splitting
c) both d) hyperfine splitting
- The number of ESR lines for methyl radical
a) 2 b) 3 c) 4 d) 5
- In Mossbauer spectroscopy, the main hyperfine interaction is
a) Isomer shift b) Quadrapole splitting
c) Nuclear Zeeman splitting d) all

SECTION - B

Answer any TWO questions:

(2x5=10)

- Explain the transitions involved in UV-visible region.
- Write a note on shielding and deshielding effects.
- Designate off resonance decoupling.
- Write the surface applications of PAS spectrum.
- Describe the factors affecting 'g' value.

SECTION - C

Answer ALL the questions:

(5×10=50)

- a) Discuss the adsorption and intensity shifts involved in UV-Visible spectroscopy.
(or)
b) Describe the applications of IR.
- a) Write an account on chemical shift and its factors affecting in NMR.
(or)
b) Clarify the coupling constant and its types.
- a) Write a note on double resonance and heteronuclear decoupling.
(or)
b) Elaborate the chemical shift and its factors affecting in CMR.
- a) Write a detail note on the instrumentation of PAS.
(or)
b) Describe the applications of PAS.
- a) Write a note on hyperfine splitting and spin hamiltonian.
(or)
b) Clarify the formation of Mossbauer nuclides and Land Mossbauer factors.



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MODEL EXAMINATION - APRIL - 2020 BUSINESS ENVIRONMENT

Class	: III BBA	Marks	: 75
Paper Code	: 17UBA15	Time	: 3 Hrs

SECTION – A

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

1. Define business.
2. What is external environment?
3. What do you mean by business culture?
4. Write a short note on linguistic religious groups.
5. Mention any four kinds of shareholders responsibility to the business.
6. State the concept of social responsibility.
7. Point out government service sector.
8. List out any three scope of industrial policy.
9. Explain private sector.
10. Give a brief account of various economic system.

SECTION – B

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

11. a) What is the effect of technological environment on business?
(or)
b) Bring out the nature of business environment.

12. a) List out the kinds of family.
(or)
b) What are the characteristics of joint family system?
13. a) State the kinds of business ethics.
(or)
b) Narrate the effect of migration.
14. a) What is government and write down the regulations for starting a business.
(or)
b) Describe the technological up gradation in import technology.
15. a) Write a short note on capitalism.
(or)
b) Enumerate the various problems in public sector.

SECTION – C

III Answer any three questions: (3X10=30)

16. Describe the micro and macro environment.
 17. Explain the functions of family.
 18. Bring out the social responsibility of business man to the society.
 19. Explain the impact of technological changes on business.
 20. State the various achievement and failures of public sector in India.
-



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MODEL EXAM – APRIL - 2020 COMPANY LAW

Class : II B.Com	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. Expand criminal liability.
10. What is quorum?

SECTION – B

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

11. a) Evaluate the features of company.
(or)
b) Trace out differences between public company and 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 about 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. State 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 EXAMINATIONS – APRIL 2020

INTERNET AND ITS APPLICATION

Class : II-CS A&B

Marks : 75

Paper Code: 17UCSS02

Time : 3 Hrs

SECTION – A

I. Answer all the questions:

(10X 2 =20)

1. Define internet.
2. Expand FTP.
3. What is an IP address?
4. List any four popular web browsers.
5. Give a note on internet explorer.
6. State proxy server.
7. Write a note on internet relay chat.
8. What is remote login?
9. Define IRCTC.
10. Write note on online train reservation.

SECTION – B

II. Answer all the questions:

(5X 5 = 25)

11. a) Elucidate the internet.
(or)
b) Write a detailed note on gopher.

12. a) Write a note on MODEM.
(or)
b) Narrate internet addressing.

13. a) Explain web server and its uses.
(or)
b) What is search engine? Explain in detail.

14. a) Give a detailed description of types of network.
(or)
b) Write a note on packet switched network.

15. a) Explain briefly about online passport processing.
(or)
b) Give an introduction to tamilnadu government services.

SECTION – C

III. Answer any three questions:

(3 X10 = 30)

16. Explicate networking.
17. Discuss in detail physical connection.
18. Illustrate web browser and how it works.
19. Elucidate internet protocol.
20. Discuss in detail on form creation for online reservation.



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MODEL EXAMINATION APRIL - 2020

GUI PROGRAMMING

Class : III BCA	Marks : 75
Paper Code : 17UCA12	Time : 3 Hrs

SECTION – A

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

1. Write a note on project explorer.
2. List the purpose of label control.
3. What are the parts of code window?
4. Mark the syntax to open a sequential file.
5. Classify the types of error that occur in VB.
6. Give the steps to add RitchTextBox control to the tool box.
7. Elucidate a primary key with an example.
8. What is meant by a record set?
9. Clarify a cursor with an example.
10. Define ADO?

SECTION – B

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

11. a) Write about the features of visual basic.
(or)
b) Explain any five command button properties.

12. a) Describe the file system controls.

(or)

b) Explain the three steps involved in working with the file system object.

13.a) Discuss about debug toolbar.

(or)

b) Write the code to change the color of text using common dialog control.

14.a) Using Add-Ins menu how to create a table and add fields to it?

(or)

b) Describe the functions of Jet-DB engine.

15.a) Write short notes on ADODC property pages.

(or)

b) How to register an ActiveX control?

SECTION – C

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

16. Discuss about various data types of VB.

17. Explain For...Next statement with an example.

18. Enumerate the common dialog control.

19. Develop a VB application using ADO for delete and update a record in MS-Access.

20. How will you create a report using crystal report wizard?



Model Exam – April 2020
PACKAGING TECHNIQUES

Class : III DPM Marks : 75
Paper Code : 17UDP12 Time : 3 Hrs

SECTION – A

Answer the following questions. (10 x 2 = 20)

1. Write about tray style carton.
2. What is carton gluing machine?
3. Define varnishing.
4. Why is lamination done?
5. Write short notes on adhesives.
6. State the properties of rigid boxes.
7. Mention strapping.
8. Define sealing tape.
9. What is skin packaging?
10. Explain barcoding.

SECTION – B

Answer the following questions. (5 x 5 = 25)

11. a) What are the principles of carton design?
(or)
b) Describe any three types of boards used in packaging?
12. a) Explain varnishing and the two main types.
(or)
b) How is wax coating done for packaging?

13. a) Detail the uses of corrugated cases in packaging.
(or)
b) What are the purposes of rigid boxes?
14. a) What are the materials used for closures and dispensing devices?
(or)
b) Write the applications of paper and plastics in packaging.
15. a) Describe the principles involved in corrugated box making.
(or)
b) State the properties of glass and their uses.

SECTION – C

Answer any THREE of the following questions. (3 x 10 = 30)

16. Explain the types of folding carton.
17. What are the equipment used for conversion?
18. Detail the usages of ancillary materials in packaging industry.
19. Explain the different styles and purposes of boxes and containers.
20. Elaborate the speciality packages with suitable examples.



Model Exam – April 2020
DIGITAL PREPRESS

Class : III DPM	Marks : 75
Paper Code : 17UDP13	Time : 3 Hrs

SECTION – A

Answer the following questions. (10 x 2 = 20)

1. List out the methods for digitizing originals.
2. What is digital printing?
3. Elaborate and define PDF.
4. Narrate the flat bed image setter.
5. What is CTP?
6. Classify the light source used in CTP
7. Write the importance of gravure flow inking system.
8. Explain about direct imaging.
9. Elaborate E-Print.
10. Give the technologies of digital printing.

SECTION – B

Answer the following questions. (5 x 5 = 25)

11. a) What are quality requirements of finished art?
(or)
b) Explain the work flow of digital pre-press.
12. a) Differentiate the film material used in image setters.
(or)
b) Write and explain the layout of internal drum exposure.

13. a) Detail the working principle of external drum exposure.

(or)

b) Narrate the necessity of CTP.

14. a) List out and explain the advantages of E-Print.

(or)

b) Differentiate the copy based and job based process.

15. a) Give the digital proofing processes.

(or)

b) How does the electro photography work?

SECTION – C

Answer any THREE of the following questions.

(3 x 10 = 30)

16. Draw and explain the capstan type exposure.
17. Narrate the working principle of 74 Karat digital press.
18. Brief about the possibility and limitations of different exposure.
19. Explain the Ionography process.
20. Detail about Continues inkjet process.



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MODEL EXAM – APRIL - 2020 ORGANIZATIONAL BEHAVIOUR

Class : II MSW Marks : 75
Paper Code : 17PSW14A Time : 3 Hours

SECTION – A

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

1. a) Give the historical perspective of Organizational Behaviour.
(or)
b) List out the various causes of conflict.
2. a) Write a short note on Job Satisfaction.
(or)
b) Portray the factors influencing perception.
3. a) What is meant by a Group? - Explain with its types.
(or)
b) Explain the importance of morale in an organization.
4. a) Write a note on organizational culture.
(or)
b) Briefly explain about Hawthorne studies.
5. a) Describe the role of management in organizational discipline.
(or)
b) Explain the concept of organizational change in an industry.

SECTION – B

II. Answer all the questions: (5x10=50)

6. a) Discuss the challenges of managers while using organizational behaviour concepts.
(or)
b) Explain the basic approaches to organizational behaviour.
7. a) Elaborate on the Foundations of Individual Behaviour.
(or)
b) Elucidate the different types of personality.
8. a) Discuss about leadership, power and politics in group.
(or)
b) Write a detailed note on management communication.
9. a) Describe the essential features of good organizational structure.
(or)
b) Critically analyze the application of Transactional Analysis.
10. a) Elaborate on Japanese style of management with examples.
(or)
b) Explain about stress and the need for stress management.



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MODEL EXAM – APRIL 2020

NUCLEAR PHYSICS

Class : III B.Sc. PHYSICS Marks: 75
Paper Code: 17UPH08 Time : 3 Hrs

PART – A

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

1. Write any two properties of nucleus.
2. What do you mean by mirror nuclei?
3. Give the principle of solid state detector.
4. What is a betatron?
5. Define nuclear fission.
6. What is meant by radioactivity?
7. Write the different types of nuclear reactions.
8. Define K-electron capture.
9. Write a note on baryon number.
10. State strangeness number.

PART – B

II. Answer ALL the questions: (5X5=25)

- 11.a) Discuss the experimental measurement of nuclear radius by mirror nuclei method.
(or)
b) State and explain the proton-electron theory of nucleus.
- 12.a) Explain principle and working of proportional counter.
(or)
b) Give the principle and constructional details of electron synchrotron.

13. a) Describe the Bohr's theory of nuclear disintegration.

(or)

- b) Write a short note on Carbon-Nitrogen cycle.

14. a) State and explain Geiger-Nuttall law. Give its applications.

(or)

- b) Discuss the laws of successive disintegration.

15. a) Briefly explain the different types of nuclear interactions.

(or)

- b) Discuss the isospin quantum number of elementary particle.

PART – C

III. Answer any THREE questions: (3X10=30)

16. Explain in detail about liquid drop model from Weizacker's semi empirical mass formula.
17. Describe the principle, construction and working of scintillation counter.
18. Derive the Q-value equation for nuclear reaction.
19. Explain Gamow's theory of alpha decay. Give its experimental measurement.
20. Discuss the classification of elementary particles.



தொன் போஸ்கோ கல்லூரி

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இளங்கலைத் தமிழ் இரண்டாமாண்டு - நான்காம் பருவம்
 மாதிரித் தேர்வு (ஏப்ரல் - 2020)

தாள் : பண்டைய இலக்கியங்களும் நாடகமும்
 காலம் : 3 மணி நேரம் 17UFTA04 மதிப்பெண் - 75
 பகுதி - அ

I. அனைத்து வினாக்களுக்கும் விடையளி.

(10X2=20)

1. 'மாடம் ஓங்கிய மல்லல் மூதூர்' இடஞ்சுட்டுக.
2. 'யாரும் இல்லை தானே கள்வன்' இடஞ்சுட்டுக.
3. 'கனயானை கவின் அழி குன்றம்' இடஞ்சுட்டுக.
4. 'உடம்பொடு உயிரிடை என்ன மந்து' இடஞ்சுட்டுக.
5. ஆதிமந்தியைக் காப்பாற்றியவர் யார்?
6. தமிழின் சிறப்பைக் கூறுக.
7. முச்சங்கப் பற்றி முதன் முதலில் கூறும் நூல் எது?
8. பத்துப்பாட்டில் புறநூல் எது?
9. கைக்கிளை என்றால் என்ன?
10. வெட்சித்திணை - விளக்குக.

பகுதி - ஆ

II. கொடுக்கப்பட்ட வினாக்களுக்கு விடையளி.

(5X5=25)

11. அ) போர்ப் பாசறையில் இருந்த அரசன் நிலை குறித்து விளக்குக.
(அல்லது)

ஆ) அகநானூற்றில் பரணர் பாடியுள்ள குறிஞ்சித் திணைப் பாடலை விளக்குக.

12. அ) 'வான் சிறப்பு' அதிகாரம் தரும் செய்திகளைத் தொகுத்தெழுதுக
(அல்லது)

ஆ) 'புல்லின்றி மேயினும் ஏற்றுக் கன்று ஏறாய் விடும்' என பழமொழி தரும் கருத்தினை விளக்குக.

13. அ) ஆதிமந்தியின் அழகை ஒற்றர்கள் ஆட்டனத்தியிடம் எவ்வாறு புகழ்ந்துரைத்தனர்?
(அல்லது)

ஆ) ஆட்டனத்தி, ஆதிமந்தியும் ஒன்று சேர்ந்ததை கண்ட நெய்தலியின் முடிவு என்ன?

14. அ) தமிழின் இனிமையை எடுத்துரைக்க.
(அல்லது)

ஆ) குறுந்தொகையின் சிறப்பினைக் கூறுக.

15. அ) ஐந்திணைக்குரிய முதல், உரிப்பொருள்களை எழுதுக.
(அல்லது)

ஆ) மருதத்திணைக்குரிய கருப் பொருள்களைத் தருக.

பகுதி - இ

III. எவையேனும் மூன்று வினாக்களுக்கு விடையளி.
(3X10=30)

16. தலைவன் தன் நெஞ்சிற்குக் கூறியதாக அமைந்துள்ள அகநானூற்றுப் பாலைதிணைப் பாடல்களை விளக்குக.
17. நட்பாராய்தல் என்னும் அதிகாரச் செய்தியை நாலடியார் வழிநின்று நிறுவுக.
18. சேரத்தாண்டவம் நாடகத்தின் தலைப்புப் பொருத்தம் குறித்து ஆராய்க.
19. சங்க இலக்கியங்கள் காட்டும் சமுதாய நிலை குறித்துக் கட்டுரை வரைக.
20. புறத்திணைகளை விவரி.



தொன் போஸ்கோ கல்லூரி

அத்யமான் புறவுழிர் சாலை, சோகத்தூர் அஞ்சல், தருமபுரி 636 809
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முதுகலைத் தமிழ் இரண்டாமாண்டு நான்காம் பருவம் - மாதிரித் தேர்வு (ஏப்ரல் - 2020) சங்க இலக்கியம்

காலம் : 3 மணி நேரம்

17PTA14

மதிப்பெண் : 75

பகுதி - அ

(5X3=15)

I. அனைத்து வினாக்களுக்கும் விடையளி.

1. அ) 'மடலேறுதல்' - குறிப்புத் தருக.

(அல்லது)

ஆ) பதிற்றுப்பத்து - குறிப்புத் தருக.

2. அ) மருத நிலக்காட்சிகளை வெள்ளிவீதியார் பாடல்கள் மூலம் எடுத்துரைக்க.

(அல்லது)

ஆ) 'பலாஅம் பழுத்த பசும் புண்அரியல்' என்ற பாடல் அடிகளை விளக்குக.

3. அ) எட்டுத்தொகை நூல்களில் அகம் பற்றியச் செய்திகளைத் தருக.

(அல்லது)

ஆ) பரிபாடல் - குறிப்புத் தருக.

4. அ) 'ஏறுதழுவுதல்' பற்றியத் தலைவி - தோழிக் கூற்றினை எடுத்துரைக்க.

(அல்லது)

ஆ) எட்டுத்தொகை நூல்களில் புறம் பற்றியச் செய்திகளைத் தருக.

5. அ) அகநானூறு - குறிப்புத் தருக.

(அல்லது)

ஆ) பரணர் பாடல்களில் குறிப்பிடப்பட்டுள்ள போர்க்களச் செய்திகளை விளக்குக.

பகுதி - ஆ

(5X12=60)

II. கீழ்க்காணும் வினாக்களுக்கு விடையளி.

6. அ) தலைவனைப் பிரிந்த தலைவியின் நிலையினை நெடுநெல்வாடை மூலம் விளக்குக.

(அல்லது)

ஆ) தலைவியின் துயர் நீக்க தோழி தலைவன்டம் கூறியச் செய்திகளை விவரி.

7. அ) 'நிலத்தினும் பேரிதே; வானினும் உயர்ந்தன்று; என்ற குறுந்தொகைப் பாடலை விளக்குக.

(அல்லது)

ஆ) திருமால் பற்றியப் பரிபாடல் செய்திகளைத் தொகுத்தெழுதுக.

8. அ) ஐங்குறுநூறு முன்னிலைப் பத்தில் கூறப்பட்டுள்ளச் செய்திகளை விவரி.

(அல்லது)

ஆ) வைகையில் பெண்கள் புனலாடும் சிறப்பினைத் தொகுத்தெழுதுக.

9. அ) நற்றிணை காட்டும் மருதத்திணைப் பற்றியச் செய்திகளை எடுத்துரைக்க.

(அல்லது)

ஆ) பாசறையின் இயல்பு குறித்து முல்லைப்பாட்டு வழிப் புலப்படுத்துக.

10. அ) 'யாரையும் அறியேம்' எனத் தலைவன் கூறியதை ஓரம்போகியார் பாடல் வழிப் புலப்படுத்துக.

(அல்லது)

ஆ) குறுந்தொகைப் பாடல்களின் வழி 'மடலேறுதல்' பற்றியச் செய்திகளைத் தொகுத்துரைக்க.



Class : I MSW	Marks : 75
Paper Code : 19PSW09C	Time : 3 Hrs

SECTION - A**I. Answer all the questions: (15x1=15)**

- Adolescence is a period characterized by _____.
a) Low self-esteem b) High morale
c) High anxiety d) None
- The relationship with the individual youth or a group or a community must be _____.
a) purposeful b) Professional
c) time bound d) All the above
- Article _____ says childhood and youth are protected against exploitation.
a) 39 (f) b) 39
c) 40 d) 49
- In _____ based youth work practice, the focus is to provide services that are short term and addressing the symptoms of the problems and not root causes.
a) Relief b) Welfare
c) Development d) Empowerment
- In India, Juvenile delinquency means a crime committed by youth who is under the age of _____ years.
a) 16 b) 18
c) 15 d) 21
- Gender is _____ construct
a) Political b) social c) Biological d) Economical
- According to India, Youth is defined as _____ years of age.
a) 12-28 b) 13-30
c) 13-35 d) 15-35
- Middle adolescence takes place _____ years of age.
a) 14-16 b) 15-17
c) 16-18 d) 13-15
- The assumption of _____ approach is that no one value system is right for everyone, so we are left to figure out what works best for us.
a) Moralizing b) Laissez-faire
c) Modeling d) None
- National Youth day
a) 12th January b) 15th January
c) 12th February d) 15th February
- NSS was launched in the year _____.
a) 1959 b) 1969
c) 1979 d) 1989
- NCC means National Cadet _____.
a) Collaboration b) Corps
c) Corporation d) None
- _____ is voluntary based actions
a) Social Work b) Social Service
b) Social Action d) None

14. _____ has a lot of potential as an aid to our Educational work.

- | | |
|---------------|---------------|
| a) Role play | b) Video |
| c) Case study | d) Simulation |

15. International Youth year is _____

- | | |
|---------|---------|
| a) 1985 | b) 1960 |
| c) 1970 | d) 1965 |

SECTION - B**II. Answer any TWO questions: (2x5=10)**

- Explain the methods of mobilization in political Parties.
- Write the stages of Group Formation.
- Enumerate characteristics of change agents.
- Explain the skills of youth worker.
- Give a short note on NCC.

SECTION - C**III. Answer all the questions: (5x10=50)**

- a) Elaborate the types of youth in India.
(or)
b) Explain the influence of youth in politics.
- a) Discuss the problems of Youth in India.
(or)
b) Elucidate the Stages in the formation of Group.
- a) Analyze the different types and areas of youth training
(or)
b) Explain the Role of Youth in Training.
- a) Critically analyze the role of mass media for social change.
(or)
b) Analyze the impact of social media on youth.
- a) Discuss the national policy for youth in India.
(or)
b) Elaborate the significance of national youth day and youth week.



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MODEL EXAM - APRIL 2020 LATEX THEORY

CLASS	: III - B.Sc. (Mathematics)	MARKS	: 75
PAPER CODE	: 17UMAS05	TIME	: 3 Hrs

Part - A

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

1. Define sample document.
2. Explain KEY concepts.
3. Write different types of environments.
4. Define basic latex.
5. Write the definition of dashes and hyphens.
6. Define further essential latex and troubleshooting.
7. Explain typesetting mathematics in latex.
8. Give an example for equation environments.
9. Define underlining and warning message.
10. Write short note on math styles in latex.

Part - B

II. Answer ALL the questions: (5X5=25)

11. (a) Derive type style and environments lists.
(or)
(b) Write brief notes on sample document and key concepts.

12. (a) Explain the centering and how to form the tables in latex.

(or)

(b) Describe the typesetting mathematics with an example.

13. (a) Write brief notes on customized commands and theorem like environments.

(or)

(b) Explain Math Miscellany.

14. (a) Give an example for fonts , underlining and arrays.

(or)

(b) Illustrate the Vertical and Horizontal spacing.

15. (a) Explain symbols for number set.

(or)

(b) Describe the common error and warning message.

Part - C

III. Answer any THREE questions: (3X10=30)

16. Write brief notes on document classes and the overall structure.
17. Derive Sectioning commands.
18. Write the commands for Bold Math and symbols of number sets.
19. Explain Binomial coefficient.
20. Derive spacing, accented character and pinpointing error.



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Section – B

MODEL EXAM – APRIL 2020

INDIRECT TAXES

Class	: II M.Com.	Marks: 75
Paper Code	: 17PCM13	Time: 3 Hrs

Section – A

I. Answer ALL questions: (5 X 5 = 25)

- a) State the salient features of indirect taxes.
(or)
b) Discuss the various objectives of taxation.
- a) What is VAT? Explain its advantages.
(or)
b) Distinguish between excise duty and sales tax.
- a) Briefly explain prohibited items of import and export.
(or)
b) Explain the scope of Customs Act.
- a) What are the objectives of CST Act?
(or)
b) Write short note on inter-state trade.
- a) Define 'turnover' under TNGST Act.
(or)
b) What are the objectives of GST?

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

- a) Explicate the merits and demerits of indirect taxes.
(or)
b) Distinguish between direct taxes and indirect taxes.
- a) Explain various kinds of excise duties.
(or)
b) Differentiate between MODVAT and CENVAT.
- a) Elucidate the various types of customs duty.
(or)
b) What are the exemptions that can be granted within the customs act?
- a) State the salient features of CST Act.
(or)
b) Discriminate between inter-state sale and intra-state sale.
- a) Types of GST.-Tiscuss in detail.
(or)
b) List out the merits and demerits of GST.
