

II YEAR III SEMESTER BSc MSCs SYLLABUS SRI RAMAKRISHNA DEGREE COLLEGE (AUTONOMOUS) NANDYAL

102-A

SRI RAMAKRISHNADEGREE COLLEGE(AUTONOMOUS), NANDYAL

II B.A/B.COM/B.SC. SEMESTER-III

English Praxis Course-III (2020-2021 Regulations)

Time: 3 hours Max. Marks: 70

Jawaharlal Nehru

Unit-I

1. Tryst with Destiny (speech)

- 2. Greetings (skills)
- 3. Introductions (skills)

Unit-II

- 1. Yes, We Can Barack Obama
- 2. A Leader Should Know How to Manage Failure (Interview) Dr.A.P.J.Abdul Kalam @ India Knowledge at Wharton
- 3. Requests (Skills)

Unit-III

- 1. Nelson Mandela's Interview with Larry Kings (Interview)
- 2. Asking and Giving Information (Skills)
- 3. Agreeing and Disagreeing (Skills)

Unit-IV

- 1. JRD Tata's Interview with T.N.Ninan (Interview)
- 2. Dialogue Building (Skills)
- 3. Giving Instructions and Directions (Skills)

Unit-V

- 1. You've Got to Find What You Love (Speech) Steve Jobs
- 2. Debates (Skills)
- 3. Descriptions (Skills)
- 4. Role Plays (Skills)

102-A

Sri Ramakrishna Degree College(Autonomous), Nandyal.

B.A/B.Com/B.SC (Three years) Degree Examinations

IInd Year IIIrd Semester Examination
Title of the paper: English Praxis Course-III

Time: 3 hours Max. Marks: 70

Section-A

- A. Read the following passage and answer the questions given below: 5x1=5M Happy is the man who acquires the habit of reading when he is young. He has secured a life long source of pleasure, instruction and inspiration. So long as he has his beloved books, he need never feel lonely. He always has pleasant occupation of leisure moments, so that he need never feel bored. He is the possessor of wealth more precious than gold. Ruskin calls books "kings Treasures" treasuries filled not with gold and silver and precious stones but with riches much more valuable than these: knowledge,noble thoughts and high ideals. Poor indeed is the man who does not read and empty in his life.
 - 1. Who can secure life long source of pleasure and inspiration?
 - 2. Who is a lonely person?
 - 3. What are called "kings treasures"?
 - 4. "He is the possessor of wealth" what is the wealth that the speaker is referring to?
 - 5. What is the synonym to "valuable"?
- B. Answer any one of the following questions in about 100 words:

1x5=5M

- 1. According to Nehru what does freedom and power bring?
- 2. Who is Ann Nixon Cooper? What does Obama say about her?
- 3. Why did Steve Job become interested in Calligraphy?
- C. Answer any one of the following in about 200 words:

1x10=10M

- 1. Summarise Nehru's speech 'A Tryst with Destiny'.
- 2. Analyse Barack Obama's speech 'Yes, We Can?
- 3. What was the message of Steve Job's speech 'You've got to find what you love?
- D. Answer any one of the following in about 100 words:

1x5 = 5 M

- 1. What is common between Mother Theresa and Nelson Mandela?
- 2. What are the six leadership traits that Kalam talks about?
- 3. How does JRD Tata defend the Voltas?
- E. Answer any one of the following in about 200 words:

1x10=10 M

- 1. What was the message given by Nelson Mandela as seen in the interview with Larry King?
- 2. How does Dr. .A .P .J. Abdul Kalam share his ideas on managing failure with Knowledge@ Whart?
- 3. Summarise JRD Tata's interview with T.N.Ninan

Section-B

| F. | Fill in the blanks with suitable expre | 1x5=5M | | | | | |
|----|--|---|---|--|--|--|--|
| | Ranjith:, Mr Rao. | | | | | | |
| | Rao: Good afternoon, Mr Ranjith. How are you? | | | | | | |
| | Ranjith:, thank you. How are you Mr Rao? | | | | | | |
| | Rao: I'm fine, thanks. I came to buy some shirts and trousers. | | | | | | |
| | Ranjith: Ok. I came here to buy a nice watch for my friend. | | | | | | |
| | , Mr Rao. | | | | | | |
| | | | | | | | |
| | Ranjith: ! | | | | | | |
| G. | 2) Please, shut the door3) Can I take your printer? | assmatener) nd) r to a cle xpressio ((((| erk) | | | | |
| l. | Construct a dialogue between two f | riends o | on the choice of their career: 1x10=10M | | | | |
| J. | Describe your favourite city: | | 1x5=5M | | | | |
| k. | Write an instructions on how to pre | epare te | a 1x5=5M | | | | |

General Telugu Navago-3

పాఠ్య (పణాళిక

యూనిట్–1: వ్యక్తీకరణ నైపుణ్యాలు

1. భాష-ప్రాథమికాంశాలు: భాష-నిర్వచనం, లక్షణాలు, ఆవశ్యకత, ప్రయోజనాలు

2. వర్దం - పదం - వాక్యం', వాక్య లక్షణాలు, సామాన్య - సంయుక్త - సంగ్లీష్టవాక్యాలు

3. ఖాషా నిర్మాణంలో 'వర్దం-పదం-వాక్యం' ప్రాధాన్యత

యూనిట్-11 సృజనాత్మక రచన '

కవీతా రచన :

ఉత్తమ కవిత – లక్షణాలు

5. కథారచన

: ఉత్తమ కథ – లక్షణాలు

6. వ్యాస రచన

: ఉత్తమ వ్యాసం-లక్షణాలు

యూనిట్-III: అనువాద రచన

అనువాదం – నిర్వచనం, అనువాద పద్దతులు,

అనువాద సమస్యలు – భౌగోళిక,భాషా, సాంస్థృతిక సమస్యలు, పరిష్మారాలు

9. అభ్యాసము : ఆంగ్లం నుండి తెలుగుకు,తెలుగు నుండి ఆంగ్లానికి ఒక పేరానుఅనువదించడం

యూనిట్ IV మాధ్యమాలకు రచన-1 (ముద్రణామాధ్యమం/టింట్ మీడియా)

10. ముద్రణామాధ్యమం (అచ్చుమాధ్యమం) : పరిచయం, పరిధి, వికాసం

11. వివిధ రకాల పత్రికలు - పరిశీలన, పత్రికాభాష, శైల్, వైవిధ్యం

12. పట్రికా రచన : వార్తా రచన, సంపాదకీయాలు, సమీక్షలు-అవగాహన

యూనిట్ V మాధ్యమాలకు రచన-2 (ప్రసార మాధ్యమం/ఎలక్ర్వానిక్ మీడియా)

13. ప్రసారమాధ్యమాలు : నిర్వచనం, రకాలు, విస్తృతి, ప్రయోజనాలు

14. శ్రవణ మాధ్యమాలు – రచన: రేడియో రచన, ప్రసంగాలు, నాటికలు, ప్రసార సమాచారం

15. దృశ్యమాధ్యమాలు - రచన: వ్యాఖ్యానం (యాంకరింగ్), టెలివిజన్ రచన

Sri Ramakrishna Degree College, Nandyal

BA/B.com/B.sc/BBA - 2nd year - 3rd Semester

Sanskrit Syllabus(2021-22)

प्रथमविभागः(Unit-I)

प्राचीन रूपक विभागः

1. मध्यमव्यायोगः -महाकवि भासः

द्वितीय विभागः(Unit-II) आधुनिक रूपक विभागः

2. संकल्पबलम्- आचार्य जि.यस्.आर्. कृष्णमूर्तिः

तृतीय विभागः(Unit-III) उपनिषद् विभागः, भगवद्गीता

3. उपनिषत् – दकार कथा शिष्यानुशासनम्

4. भगवद्गीता – श्रद्धात्रयविभगयोगः

चतुर्थविभागः (Unit-IV)

अलङ्कारः, महाकवि शास्त्रकारः विभागः

- 5. अलङ्कारः
- 6. महाकवि शास्त्रकारः

1. पाणिनि, 2.कौटिल्यः,

3. भरतमुनिः,

4. भारविः,

5. माघः, 6. भवभूतिः,

7. शङ्कराचार्यः, 8. दण्डी

पञ्चमविभागः(Unit-V)

हलन्त शब्दाः

7. व्याकरणविभागः- जलम्च्, मरुत्, भगवत्, भवत्, पचत्, राजन्, गृणिन्, नामन्, विद्वस्, मनस्, अस्मद्, युष्मद्।

Sri Ramakrishna Degree College, Nandyal BA/B.com/B.sc/BBA - 2nd year - 3rd Semester

Sub: Sanskrit Model Question paper (2021-22)

Time: 3 hours. Marks=70

प्रथमोभागः(50 marks)

| ।. द्वौश्लोकोपूरयित्वाभावंलिखत ! | 2 x 4=08 |
|---|----------|
| अ) आयुःसात्विकप्रियाः!! | |
| आ)देवव्दिजउच्यते !! | |
| इ) मनःप्रसादमुच्यते !! | |
| ई) ओंतत्सिदतिविहिताःपुरा !! | |
| ॥. चतुर्णांससन्दर्भभावंचलिखत ! | 4 x 3=12 |
| अ) व्दिजोत्तमाःपूज्यतमा-पृथिव्याम् ! | |
| आ) पतिमात्रधर्मिणीपतिव्रतेतिनाम ! | |
| इ) जा त्या राक्षसी । न समुदाच ारेण ! | |
| ई) दण्डंयथार्थमिहधारयितुंसमर्थाः ! | |
| उ) मातृदेवोभव ! | |
| ऊ) श्र द्धाय ा देय म् ! अश्रध्या sदेम् ! | |
| ए) एषआदेशः!एषः उपदेशः!एतदनुशासनम् ! | |
| ऐ)दमंदानंदयामिति! | |
| III.एकस्यसम्पूर्णतयासमाधानंलिखित ! | 1 x 8=8 |
| अ) भीमधटोत्कचयोःशीलंलिखित ! | |
| आ)मध्यमव्यायोगरुपकस्यकथासारंतिखित! | |
| ıv. एकस्य सम्पूर्णतया समाधानं लिखित ! | 1 x 8=8 |
| अ) गान्धिमहाशयस्यआदर्शः गुणान् पाठयभागानुसारंविशदयत ! | |
| आ) संकल्पबलमूपकस्यकथासारं लिखित ! | |
| v.एकस्य सम्पूर्णतया समाधानं लिखित! | 1 x 8=8 |
| अ) गुरुःशिष्यन्किम्अनुशास्ति? | |
| आ)बृहदारण्यकोपनिषदिवर्णितानुसारंदकारकथस्य वैशिष्ट्यंविचारयत! | |
| VI. ष ण्णांलघुसमाधानानिलिखित! | 1 x 6=6 |
| अ) मध्यमव्यायोगस्यकर्ताकः? | |

आ) पाण्डवाःकीर्दशाः ? इ) मांसभक्षणेकिंमलिनंभवति ? ई) शर्रितवचनंकिम्? 3) प्रजापतेःकतिपुत्राःसन्ति? ऊ) प्रजापतिःदेवान्उद्दिश्य किंउपदिदेश? ए) उपनिषद्इतिशब्दस्यअर्थःकः? ऐ) कस्यांनप्रमदितव्यम्? क) त्रिविधश्रद्धाका ? ख) त्रयः आहाराः के ? व्दितीयभागः(20Marks) VII. व्दयोःशब्दरुपानिसम्पूर्णतयातिखित! 2 x 3=6 **अ) जलमुच्** आ) भगवत् ई) विव्दस् इ) राजन् VIII.व्दयोःल**क्ष**लक्षणंसमन्वयंलिखित! 2 x 3=6 अ) उपमा। आ) दीपकम् इ) द्रुष्टान्तः। ई) उल्लेखः IX. व्दयोः लघुविवरणंकुरूत! 2x 4=8 अ) भारविः। आ)माघः। इ) पाणिनि ई) भवभूतिः

SRI RAMAKRISHNA DEGREE(AUTONOMOUS) COLLEGE: NANDYAL B.Sc. SECOND YEAR MATHEMATICS SYLLABUS (2021-2022) SEMESTER-III PAPER-3 ABSTRACT ALGEBRA-PAPER-3

Course Outcomes:

After successful completion of this course, the student will be able to;

- 1. acquire the basic knowledge and structure of groups, subgroups and cyclic groups.
- 2. get the significance of the notation of a normal subgroups.
- 3. get the behavior of permutations and operations on them.
- 4. study the homomorphisms and isomorphisms with applications.
- 5. understand the ring theory concepts with the help of knowledge in group theory and to prove thetheorems.
- 6. understand the applications of ring theory in various fields.

Course Syllabus:

UNIT - I (12 Hours)

GROUPS:

Binary Operation – Algebraic structure – semi group- monoid – Group definition and elementary properties Finite and Infinite groups – examples – order of a group, Composition tables with examples.

UNIT - II (12 Hours)

SUB - GROUPS:

Complex Definition – Multiplication of two complexes Inverse of a complex-Subgroup definition- examples-criterion for a complex to be a subgroups. Criterion for the product of two subgroups to be a subgroup-union and Intersection of subgroups.

Co-sets and Lagrange's Theorem:

Cosets Definition – properties of Cosets–Index of a subgroups of a finite groups–Lagrange's Theorem.

UNIT –III (12 Hours)

NORMAL SUBGROUPS:

Definition of normal subgroup – proper and improper normal subgroup–Hamilton group – criterion for a subgroup to be a normal subgroup – intersection of two normal subgroups – Sub group of index 2 is a normal sub group –quotient group – criteria for the existence of a quotient group.

HOMOMORPHISM:

Definition of homomorphism – Image of homomorphism elementary properties of homomorphism – Isomorphism – automorphism definitions and elementary properties–

kernel of a homomorphism – fundamental theorem on Homomorphism and applications

UNIT - IV (12 Hours)

PERMUTATIONS AND CYCLIC GROUPS:

Definition of permutation – permutation multiplication – Inverse of a permutation – cyclic permutations – transposition – even and odd permutations – Cayley's theorem.

Cyclic Groups :- Definition of cyclic group – elementary properties – classification of cyclic groups.

UNIT V (12 Hours)

RINGS:

Definition of Ring and basic properties, Boolean Rings, divisors of zero and cancellation laws Rings, Integral Domains, Division Ring and Fields, The characteristic of a ring - The characteristic of an Integral Domain, The characteristic of a Field. Sub Rings, Ideals

Co-Curricular Activities(15 Hours)

Seminar/ Quiz/ Assignments/ Group theory and its applications / Problem Solving.

Text Book:

A text book of Mathematics for B.A. / B.Sc. by B.V.S.S. SARMA and others, published by S.Chand & Company, New Delhi.

Reference Books:

- 1. Abstract Algebra by J.B. Fraleigh, Published by Narosa publishing house.
- 2. Modern Algebra by M.L. Khanna.

SRI RAMAKRISHNA DEGREE (AUTONOMOUS)COLLEGE:NANDYAL II B.Sc MATHEMATICS PAPER-3

MODEL PAPER- (For the Academic Year 2020 onwards) III SEMESTER- ABSTRACT ALGEBRA Max.MARKS:70M

PART-A

Answer Any FIVE of the following

5x4=20M

- 1. Prove that in a group G, If $a \in G$ then $O(a) = O(a^{-1})$.
- 2. Show that in a Group G for $a, b \in G$, $(ab)^2 = a^2b^2$ if and only If G is abelian.
- 3. Prove that the intersection of two Sub groups is again Sub group
- 4. Prove that any two right or left Co-sets of Subgroup are either identical or disjoint
- 5. Prove that a subgroup H of a group G is Normal, If $xHx^{-1} = H$ for all $x \in G$
- 6. Find the regular permutation group Isomorphic to the multiplication group $G = \{1, -1, i, -i\}$
- 7. Show that every cyclic group is an abelian
- 8. Prove that every Boolean ring is Commutative under multiplication.

PART-B

Answer Any FIVE of the following

5x10=50M

9a). Prove that the set -Z of all integers form an abelian group with respect to the Operation defined by a*b=a+b+2 for all $a,b\in Z$

OR

- b). Let G to be a group and H is a complex of G . The necessary and Sufficient condition for H to be a sub group of G is $a,b \in H \Rightarrow ab^{-1} \in H$
- 10 a). State and prove Lagrange's theorem on finite groups

OR

- B .Prove that a subgroup H of a group G is a normal subgroup of G If and only if the product of two right(left) co sets of H in G is again a right(left) co-set of H in G
- 11a). State and Prove Fundamental theorem of Homomorphism on Groups

OR

- b). State and prove Cayley's theorem on finite groups
- 12 a). Show that every Isomorphic images of a Cyclic group is Cyclic

OR

- b) Every Sub group of Cyclic Group is Cyclic.
- 13a) .Prove that a ring has $\it R$ has no zero divisors If and only if the Cancellation laws hold in $\it R$

OR

Prove that $Q[\sqrt{2}] = \{a + b\sqrt{2} \mid a, b \in Q\}$ is a Field with respect to addition and multiplication of numbers.

Sri Ramakrishna Autonomous Degree College, Nandyal

B.Sc - 2nd year - 3rd Semister

Paper-III- Statistical Inferences

Paper-III- STATISTICS SYLLABUS (2021-22)

UNIT-

Concepts: Population, Sample, Parameter, statistic, Sampling distribution, Standard error, convergence in probability and convergence in distribution, law of large numbers, central limit theorem (statements only). Student's t- distribution, F – Distribution, χ^2 -Distribution: Definitions, properties and their applications.

UNIT-II

Theory of estimation: Estimation of a parameter, criteria of a good estimator — unbiasedness, consistency, efficiency, &sufficiency and. Statement of Neyman's factorization theorem. Estimation of parameters by the method of moments and maximum likelihood (M.L), properties of MLE's. Binomial, Poisson &Normal Population parameters estimate by MLE method. Confidence Intervals.

UNIT-III

<u>Testing of Hypothesis:</u>Concepts of statistical hypotheses, null and alternative hypothesis, critical region, two types of errors, level of significance and power of a test. One and two tailed tests. Neyman-Pearson's lemma. Examples in case of Binomial, Poisson, Exponential and Normal distributions.

UNIT-IV

Large sample Tests: large sample test for single mean and difference of two means, confidence intervals for mean(s). Large sample test for single proportion, difference of proportions, standard deviation(s) and correlation coefficient(s).

SmallSampletests:t-testforsinglemean,differenceofmeansandpairedt-test. x2-testforgoodness of fit and independence of attributes. F-test for equality of variances.

UNIT-V

Non-parametric tests- their advantages and disadvantages, comparison with parametric tests. Measurement scale- nominal, ordinal, interval and ratio. One sample runs test, sign test and Wilcoxon-signed rank tests (single and paired samples). Two independent sample tests: Median test, Wilcoxon-Mann-Whitney U test, Wald Wolfowitz's runs test.

Chairman JUGI- BOS]

[Member]

- 1. BA/BSc II year statistics statistical methods and inference Telugu Academy by A.Mohanrao, N.Srinivasa Rao, Dr R.Sudhakar Reddy, Dr T.C. RavichandraKumar.
- 2. K.V.S. Sarma: Statistics Made Simple: Do it yourself on PC.PHI.

REFERENCE BOOKS:

- 1. Fundamentals of Mathematics statistics: VK Kapoor and SCGuptha.
- 2. Outlines of statistics, Vol II: Goon Guptha, M.K.Guptha, Das GupthaB.
- 3. Introduction to Mathematical Statistics : HoelP.G.
- 4. Hogg Tanis Rao: Probability and Statistical Inference. 7th edition. Pearson.

Credits: 2

Practicals - Paper -III

- 1. Large sample test for singlemean
- 2. Large sample test for difference ofmeans
- Large sample test for singleproportion
- 4. Large sample test for difference of proportions
- 5. Large sample test for difference of standarddeviations
- 6. Large sample test for correlationcoefficient
- 7. Small sample test for singlemean
- 8. Small sample test for difference ofmeans
- 9. Small sample test for correlationcoefficient
- 10. Paired t-test(pairedsamples).
- 11. Small sample test for single variance(χ 2 test)
- 12. Small sample test for difference of variances (F-test)
- 13. 7.2 test for goodness of fit and independence of attributes
- 14. Nonparametric tests for single sample(run test, sign test and Wilcoxon signed ranktest)
- 15. Nonparametric tests for related samples (sign test and Wilcoxon signed ranktest)
- 16. Nonparametric tests for two independent samples (Median test, Wilcoxon -Mann- Whitney U test, Wald - Wolfowitz's runstest)

Note: Training shall be on establishing formulae in Excel cells and deriving the results. The excel output shall be exported to MS Word for writinginferences.

Course Learning Outcomes

The students will acquire

- 1) Concept of law large numbers and their uses
- 2) Concept of central limit theorem and its uses in statistics
- 3) concept of random sample from a distribution, sampling distribution of a statistic, standard error of important estimates such as mean and proportions,
- 4) knowledge about important inferential aspects such as point estimation, test of hypotheses and associated concepts,
- 5) knowledge about inferences from Binomial, Poisson and Normal distributions as illustrations,
- 6) concept about non-parametric method and some important non-parametric tests.

Statistics : Semester III Model Paper

Max Marks: 70 Time: 3Hrs Part -A 5x4=20M Answer any five of the following questions Define a) Sample b) Sampling distribution 2. Write the properties of Ψ^2 distribution 3. Explain MLE 4. Define Type I and Type II error 5. Explain paired t-test 6. Explain large sample test for single mean What are non-parametri tests 8. Explain method of moments Part -B 5x10=50M Answer all questions 9. a) Write the properties and applications of F-distribution 4. Parameter 3. Statistics b) Define 1. Population 2. Standard error 10. a) Explain the criteria of a good estimator OR b) Find MLE of parameter of B.D 11. a) State and prove N.P. Lemma OR 2. Power function of the test b) Explain 1. Composite hypothesis 4. Null hypothesis. 3. Level of significance 12. a) Explain Ψ^2 test for goodness of fit. OR b) Explain a large sample test for testing of significance of difference between two sample means and S.D's 13. a) Explain Mann- whitney U-test

OR

b) write the advantages and disadvantages of non - parametric tests.

II B.Sc III SEMESTER SYLLABUS Paper III: DATABASE MANAGEMENT SYSTEMS

| Semeste | r Course Code | Course Title | Hours | Credits |
|---------|---------------|--------------------------------|-------|---------|
| III | C3 | DATABASE MANAGEMENT SYSTEMS | 60 | 3 |

UNIT I

Overview of Database Management System: Introduction to data, information, database, database management systems, file-based system, Drawbacks of file-Based System, database approach, Classification of Database Management Systems, advantages of database approach, Various Data Models, Components of Database Management System, three schema architecture of data base, costs and risks of database approach.

UNIT II

Entity-Relationship Model: Introduction, the building blocks of an entity relationship diagram, classification of entity sets, attribute classification, relationship degree, relationship classification, reducing ER diagram to tables, enhanced entity-relationship model (EER

model), generalization and specialization, **IS A** relationship and attribute inheritance, multiple inheritance, constraints on specialization and generalization, advantages of ER modeling.

UNIT III

Relational Model: Introduction, CODD Rules, relational data model, concept of key, relational integrity, relational algebra, relational algebra operations, advantages of relational algebra, limitations of relational algebra, relational calculus, tuple relational calculus, domain relational Calculus (DRC), Functional dependencies and normal forms upto 3rd normal form.

UNIT IV

Structured Query Language: Introduction, History of SQL Standard, Commands in SQL, Data Types in SQL, Data Definition Language, Selection Operation, Projection Operation, Aggregate functions, Data Manipulation Language, Table Modification Commands, JoinOperation, Set Operations, View, Sub Query. **Joins**

Concept for SQL Lab Programs

UNIT V

PL/SQL: Introduction, Shortcomings of SQL, Structure of PL/SQL, PL/SQL Language Elements, Data Types, Operators Precedence, Control Structure, Steps to Create a PL/SQL, Program, Iterative Control, Procedure, Function, Database Triggers, Types of Triggers. **PL/SQL Programs for LAB**

BOOKS:

- Database System Concepts by Abraham Silberschatz, Henry Korth, and S. Sudarshan, McGrawhill
- 2. Database Management Systems by Raghu Ramakrishnan, McGrawhill
- 3. Principles of Database Systems by J. D. Ullman
- 4. Fundamentals of Database Systems by R. Elmasri and S. Navathe
- 5. SQL: The Ultimate Beginners Guide by Steve Tale.

B.Sc(Three Year) Degree Examinations

II Year III Semester

DBMS MODEL PAPER

Time: 3 Hrs Max. Marks: 70 Pass Marks: 28M

PART A

Answer any five of the following questions

5x4 = 20m

- 1. Explain about components of DBMS
- 2. Write a short note on data models
- 3. Explain about level of abstraction in DBMS
- 4. What is a key and explain about types of key
- 5. Explain about Generalization and Specialization
- 6. Explain about data types in SQL
- 7. What is Relation? Explain about types of relations?
- 8. What are advantages of PL/SQL

PART B

Answer any five of the following questions

5x10 = 50m

9. What is DBMS? What are the objectives of DBMS

Or

Explain about classification of DBMS

10. Explain about Entity and attributes? Write about types of attributes

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Explain building blocks of entity-relationship diagram

11. Write a note on E.F codd's 12 rules

Or

What is normal form? Explain about 3 normal forms in DBMS

12. What is SQL? What are different sub-languages in SQL

Or

Explain joins concept in detail

13.Explain looping statements in PL/SQL with example

Or

What is trigger? Explain about types of triggers