SWAMI VIVEKANANDA DEGREE & PGCOLLEGE

(Affiliated to Palamuru University)

Subject – Programming with - C

PART - A **(5X4=20)**

Answer any five of the following questions.

1. Define Non - Formatted input output functions?
2. Give a breif introduction on C?
3. Write in breif about recursion?
4. Define Dynamic Array?
5. Difference b/w goto and continue? Explain with example?
6. What is an Array?Explain 10 array?
7. What are the differences b/w while and do while explain with fx programme?
8. Define Variable?

PART - B

9. How switch statement is used to make multiple decision Explain?

(or)

10. Explain the process of declaring and initializing pointers. Give an Example.
11. What is a data type? illustrate data types in C?

(or)

12. Explain declaration, initialization and accessing of structure data type with syntax
    and example program any four.
13. Explain the operators used in C-Language with syntax and example
    1) Arithmatic 2) Realtional 3) Logical
    4) Conditional operator 5) Increament and

(or)

14. What are constants? Explain?
15. (A) What is the need for functions? Explain the elements of functions?
    (B)Write any four differences between built in functions and user defind functions?

(or)

16. What is a pointer? What are the uses of points? Explain with example program?
17. (A)What are the storage classes? Explain.
    (B) Write a C - Program for find greatest number among three numbers?

(or)

18. (A).What is if, if else, nested -if Explain with syntax?
    (B)Write a Example program for Matrix multiplication by using 2D Array.

SWAMI VIVEKANANDA DEGREE & PGCOLLEGE

(Affiliated to Palamuru University)

Subject – Data Structures

.....

Answer any five of the following questions.

1. What is an array? Explain its types?
2. Define stock?
3. What are Queues?
4. What is a spanning Tree?
5. What is a graph? Explain terrinology of graph?
6. What is arecursion? Write an example program?
7. What is Data structutre?
8. Write about the string manipulation in arrays?

PART - B **(4X15=60)**

9. (A) : Define pseudocode? Explain with Example?
   (B) : Define flowchart? Explain the importance of flowchart?

(or)

10. (A): What is an Algorithm? How to write an Algorithm?
    (B) : What is Analysis of algorithm? How do you calculate?
11. (A) : How to implement a stack using Array? With text program?

(or)

12. Discuss in Detail the various transal Technique of a binary tree Example?
13. (A): Write a C++ program to implement the tree travarsal.
    (B) : Define Tree? and its operations.

(or)

14. (A) Explain different types of graphs?
14. (B). Explain different types of Reprasentation with Example program.
15. Explain DFS and BFS with Example?

(or)

16. What is a Single linked list? Explain its operations?

SWAMI VIVEKANANDA DEGREE & PGCOLLEGE

(Affiliated to Palamuru University)

Subject – Zoology

.....

UNIT – 1

Long Questions:

1. Retrogressive metamorphosis – Herdmenia.
2. General Characters of Cyclostomes and petromyxon and myxin.
3. General characters of Chordata.
4. Respiratory system in scoleodon.
5. Structure and functions of heart in Dog Fish.
6. Structure and functions of brain in Dog Fish.

Short Questions :

1. General characters and affinities of cephalochordate.
2. General characters of Urochordata.
3. Fins in fishes.
4. Condrichthyes and dipeniu fishes.
5. Anpulla of larynginii.
6. Scales in Fishes.

UNIT – 2

Long Questions:

1. Structure and function of heart in frog (calotes)
2. Respiratory system in Rana
3. Structure of brain of frog / calotes.
4. Parental care in Amphibia.

Short Questions :

1. Jacobson's Organs.
2. Temporal fossils.
3. Neoteny.
4. Crocodilia.
5. Respiratory organs in calotes.
6. Rhincocephalia.
7. Chilonia.

UNIT – 3

Long Questions:

1. Digestive system of Rabbit.
2. Double respiration in Rabbit.
3. Structure and function of blood in mammals.
4. Structure and mammal and aquatic adaption in mammals.

Short Questions :

1. Prototheria / Metatheria.
2. Migration in birds.
3. Flying adaption in birds.
4. T.S of spinal cord.
5. Syrinx in pigeon.

UNIT – 4

Long Questions:

1. Development in Frog.
2. Embryonic membranes and their importance.
3. Ganetogenesis – Spermatogenesis and Oogenesis.
4. Types of eggs and types of cleavages.

Short Questions :

1. Fertilization
2. Embryo
3. Germinal Layer
4. Yolk
5. Regeneration.

SWAMI VIVEKANANDA DEGREE & PGCOLLEGE

(Affiliated to Palamuru University)

Subject – Java Programming

.....

UNIT – 1

1. Explain about JVM?
2. Explain briefly about Java Features?
3. Define type conversion and carting?
4. Explain about Conditional & Branching statements?
5. Explain about method Declaration and invocation with example?
6. Define constructors? Explain about constructor overloading with example?
7. Define class variable and static keyword with excel program?
8. Define Two – D array with excel programme?
9. Define command – line arguments and Inner class with ex programme?
10. Explain about types of Inheritance with excel programme?
11. Explain about abstract class & Methods with excel programme?
12. Explain about Interfaces with excel programme?

UNIT – 2

1. Define package? Creating and using packages with excel programme?
2. Explain about string class & string buffer class methods with excel programme?
3. Define Exception ? Explain about Exception handling techniques with excel programme?
4. Create user – defined Exception with excel programme?
5. Define thread? Explain about creation of new threads with excel programme?
6. Explain about thread life cycle?
7. Explain about thread synchronization with excel programme?
8. Explain about file Input / File output stream class with excel?
9. Explain about scanner class with excel programme.

UNIT – 3

1. Define applet ? Applet life cycle with excel programme?
2. Explain about difference between AWT & swing?
3. Explain about Event handling?
4. Explain about following AWT components with excel programme?
   a. Button b. Label c. Checkbox d. Radio Button
5. Explain about following swing components with excel programme?
6. Explain about layout manager class?
7. Define JDBC? Explain about types of JDBC drivers?
8. Explain briefly about JDBC connectivity with excel programme?
9. Define resultset & scrollable resultest?

SWAMI VIVEKANANDA DEGREE & PGCOLLEGE

(Affiliated to Palamuru University)

Subject – Statistics (Paper – 5)

.....

UNIT – 1

1. Define population, parameter, statistic.
2. What are different types of errors?
3. Important steps in a sample survey?
4. Different types of errors?
5. What is simple random sampling. What are different methods of selecting SRS. Define SRSWR and SRSWOR.
6. Estimates of mean, variance using SRS.
7. Proportion variance and its unbiased estimator in SRSWR.

UNIT – 2

1. Determining sample variance using stratified random sample.
2. Neyman's optimal allocation.
   $V_{opt} \leq V_{mop} \leq V_{ran}$
3. Prove .
4. Determine variance using systematic sample.
5. Define time series. Explain the components of time series.
6. Determining trend using method of moving averages.
7. Curve fitting and determining trend by least squares method.
8. Fitting growth curves (a) Modified exponential curve
   (b) Gomptez curve
   © Logistic curve.
9. Determine seasonal indices using
   (a) Ratio to trend (b) Link relative method.

UNIT – 3

1. Define Index number. What are different types of Index numbers.
2. What are the different weighted I.N.
3. Discuss about Time reversal test, factor reversal test.
4. Construction of CBIN. Convert FBIN to CBIN and vice versa.
5. Explain about (a) Base shifting.
   (b) Splicing
   © Definition of I.N
6. Explain about cost of living Index numbers.
7. What is demand Analysis? Explain demand and supply and law of demand & supply
8. Estimate demand function using(a) Pious method

(b) Leontiefs methods

9. What do you understand by pareto's law of income distribution.

SWAMI VIVEKANANDA DEGREE & PGCOLLEGE

(Affiliated to Palamuru University)

Subject – Statistics (Paper – 6)

.....

UNIT – 1

1. Define SQC and its uses.
2. What are different causes of variation.
3. Process and product control.
4. Define control charts.
5. Write constructions of $\overline{X}$ - chart.
6. Write construction of Range chart.
7. Write construction of std.deviation ,s-chart.

UNIT – 2

1. Control chart for fraction defective with constant sample size and variable sample size.
2. Control chart for numbers of defectives for constant, variable sample size.
3. Control chart for number of defects (C,U charts)
4. Define (a) Tolerance limits.
   (b)Specification limits.
   © Process capability Analysis.
5. Write about the concept of 65 limits.

UNIT – 3

1. Define (a) Acceptance sampling
   (b) Single sampling, double sampling plan
   (c) Multiple, sequential sampling plan.
   (d) AOQ, AQL, LTPD, AOQL, ATI, ASN
   (e) Producers, consumers, risk.
2. Construction of SSP, its ASN, ATI & OC – Curve.
3. Construction of DSP, its ASN,TI & OC – Curve.
4. Define Reliability, Quality.
5. Define different reliability measures.
6. What are different modes of failure – bath tub curve.
7. Define Exponential distb as life time model.
8. What are different hazard models.
9. Explain series and parallel configuration of system. Derive the reliability of system.
10. Explain out of and structure with derive its reliability.