PROVISIONAL ANSWER KEY

Question1:-The buffer overflow attack is caused by

     A:-Vulnerability in the design of a networking protocol

     B:-Vulnerability in the implementation of a networking protocol

     C:-Vulnerability in human behaviour

     D:-Vulnerability in software

     Correct Answer:- Option-D

Question2:-Which of the following is not valid IPv4 addresses ?

     A:-192.10.14.3

     B:-201.172.275.33

     C:-65.90.11.00

     D:-193.20.250.10

     Correct Answer:- Option-B

Question3:-Address resource records are associated with

     A:-Routing tables in Internet routers

     B:-ARP aches in LAN workstations

     C:-DNS servers

     D:-None of the above

     Correct Answer:- Option-C

Question4:-Which of the following protocols is used in accessing web mail ?

     A:-HTTP

     B:-SMTP

     C:-POP3

     D:-IMAP

     Correct Answer:- Option-A

Question5:-If gcd(a, b) = x and gcd(b, c) = y, then gcd(a, c) is

     A:-xy

     B:-gcd(x, y)

     C:-xy/gcd(x, y)

     D:-None of these

     Correct Answer:- Option-D

Question6:-Assuming the same key is used, two occurrences of the same plaintext characters are encrypted as identical output symbols in which of the following

     A:-Caesar cipher

     B:-Vigenere cipher

     C:-Hill cipher

     D:-One time pad

     Correct Answer:- Option-A

Question7:-A product cipher is constructed using a combination of

     A:-Symmetric and asymmetric ciphers

     B:-Substitution and transposition ciphers

     C:-Monoalphabetic and polyalphabetic ciphers

     D:-Stream and block ciphers

     Correct Answer:- Option-B

Question8:-Which of the following characteristics is most widely used in fingerprint recognition ?

     A:-Number and coordinates of arch patterns

     B:-Number and coordinates of loop patterns

     C:-Coordinates and orientations of fingerprint minutiae

     D:-Number and coordinates of whorl patterns

     Correct Answer:- Option-C

Question9:-During the initial stages of an attack by a new internet scanning worm, the number of infected machines increases
    A:-Exponentially with time
    B:-Logarithmically with time
    C:-Polynomially with time
    D:-At a constant rate
    Correct Answer:- Option-A
Question10:-Use privileges in windows are stored in
    A:-DACL
    B:-ACE
    C:-Access token
    D:-SID
    Correct Answer:- Option-C
Question11:-Probabilistic packet marking is technique used in support of
    A:-DDoS prevention
    B:-IP traceback
    C:-DDoS detection
    D:-Worm detection
    Correct Answer:- Option-B
Question12:-The role of the payment gateway is
    A:-A proxy to the merchant
    B:-A financial service provider
    C:-A government regulator
    D:-A proxy to the bankcard network
    Correct Answer:- Option-D
Question13:-What type of parameters are used in transcendental functions in Java ?
    A:-double
    B:-long
    C:-byte
    D:-int
    Correct Answer:- Option-A
Question14:-In what format is Java's character set represented ?
    A:-16 bits ASCII
    B:-16 bits unicode
    C:-16 bits EBC
    D:-None of the above
    Correct Answer:- Option-B
Question15:-Basic futures of structured programming
    A:-Sequence
    B:-Looping
    C:-Branching
    D:-All of the above
    Correct Answer:- Option-D
Question16:-In which year Java was developed ?
    A:-1989
    B:-1990
    C:-1991
    D:-1992
    Correct Answer:- Option-C
Question17:-What feature of C++ was dropped in Java ?
    A:-Virtual function
    B:-Abstract class
    C:-Inheritance
    D:-Pointers
    Correct Answer:- Option-D
Question18:-What type of storage class is involved when we pass by value in function ?
    A:-External
    B:-Automatic
    C:-Static

D:-Register

Correct Answer:- Option-B

Question19:-What is Java equivalent of const in C++ ?

A:-const

B:-#define

C:-final

D:-All of the above

Correct Answer:- Option-C

Question20:-What is another name for semantic errors ?

A:-Runtime errors

B:-Compile time errors

C:-Syntax errors

D:-None of the above

Correct Answer:- Option-A

Question21:-What are units of width and height specified in HTML tag ?

A:-Pixels

B:-Bytes

C:-Bits

D:-All of the above

Correct Answer:- Option-A

Question22:-What will be the values of x, m and n after execution of the following statements ?

int x, m, n;

m = 10;

n = 15;

x = ++m + n++;

A:-x = 25, m = 10, n = 15

B:-x = 27, m = 10, n = 15

C:-x = 26, m = 11, n = 16

D:-x = 27, m = 11, n = 16

Correct Answer:- Option-C

Question23:-What will be the result of the expression 13 and 25 ?

A:-38

B:-9

C:-25

D:-12

Correct Answer:- Option-B

Question24:-Which of the following will produce a value of 22 if x = 22.9 ?

A:-ceil(x)

B:-log(x)

C:-abs(x)

D:-floor(x)

Correct Answer:- Option-D

Question25:-Which is the legal ways to access a class data member using this pointer ?

A:-this.x

B:-*this.x

C:-*(this.x)

D:-(*this).x

Correct Answer:- Option-D

Question26:-Which one of the following is an associative container ?

A:-list

B:-queue

C:-map

D:-string

Correct Answer:- Option-C

Question27:-Which one of the following is a sequence container ?

A:-stack

B:-deque

C:-queue

D:-set

Correct Answer:- Option-B

Question28:-What does the acronym BCPL stands for ?
    A:-Basic Combined Programming Language
    B:-Basic Compiler Programming Language
    C:-Beginners Combined Programming Language
    D:-None of the above
    Correct Answer:- Option-A
Question29:-What was Ken Thompson's version of C called ?
    A:-C++
    B:-B
    C:-P
    D:-None of the above
    Correct Answer:- Option-B
Question30:-What does the fopen() function return ?
    A:-address
    B:-pointer
    C:-file pointer
    D:-all of the above
    Correct Answer:- Option-C
Question31:-Recursive algorithms are based on
    A:-Divide and conquer approach
    B:-Top-down approach
    C:-Bottom-up approach
    D:-Hierarchical approach
    Correct Answer:- Option-C
Question32:-The Sorting method which is used for external sort is
    A:-Bubble sort
    B:-Quick sort
    C:-Merge sort
    D:-Radix sort
    Correct Answer:- Option-D
Question33:-Worst case efficiency of binary search is
    A:-$\log_{2} n + 1$
    B:-n
    C:-$2^{(n)}$
    D:-log n
    Correct Answer:- Option-A
Question34:-What is the type of the algorithm used in solving the 8 Queens problem ?
    A:-Dynamic
    B:-Backtracking
    C:-Branch and Bound
    D:-None of the above
    Correct Answer:- Option-B
Question35:-The time taken by NP-class sorting algorithm is
    A:-O(1)
    B:-O(log n)
    C:-$O(n^{(2)})$
    D:-O(n)
    Correct Answer:- Option-D
Question36:-How many nodes are there in a full state space tree with n = 6 ?
    A:-65
    B:-64
    C:-63
    D:-32
    Correct Answer:- Option-C
Question37:-Prims algorithm is based on _____ method.
    A:-Divide and conquer method
    B:-Greedy method
    C:-Dynamic programming
    D:-Branch and bound

Correct Answer:- Option-B

Question38:-Graph Colouring is which type of algorithm design stratergy

    A:-Backtracking

    B:-Greedy

    C:-Branch and Bound

    D:-Dynamic programming

    Correct Answer:- Option-A

Question39:-The asymptotic notation for defining the average time complexity is

    A:-Equivalence

    B:-Symmetric

    C:-Reflexive

    D:-All of the above

    Correct Answer:- Option-A

Question40:-The complexity of merge sort algorithm is

    A:-O(n)

    B:-$O(n^{(2)})$

    C:-O(log n)

    D:-O(n log n)

    Correct Answer:- Option-D

Question41:-Dijkstra's banking algorithm in an operating system, solves the problem of

    A:-Deadlock recovery

    B:-Mutual exclusion

    C:-Deadlock avoidance

    D:-None of these

    Correct Answer:- Option-C

Question42:-Interval between the time of submission and completion of the job is called

    A:-Waiting time

    B:-Response time

    C:-Throughput

    D:-Turnaround time

    Correct Answer:- Option-D

Question43:-The example of non-preemptive scheduling is

    A:-First-Come-First-Served

    B:-Round Robin

    C:-Last-In-First-Out

    D:-Shortest-Job-First

    Correct Answer:- Option-A

Question44:-_____ is a process-to-process protocol that adds only port addresses, checksum, error control and length information to the data from the upper layer.

    A:-TCP

    B:-UDP

    C:-IP

    D:-None of the above

    Correct Answer:- Option-B

Question45:-The RSA algorithm uses a _____ cryptography method.

    A:-Public Key

    B:-Private Key

    C:-Symmetric Key

    D:-All the above

    Correct Answer:- Option-A

Question46:-The _____ attack is related to confidentiality.

    A:-Fabrication

    B:-Interception

    C:-Modification

    D:-Interruption

    Correct Answer:- Option-B

Question47:-The cryptography method in which the plaintext BBBB becomes the ciphertext BCDE. This is probably

    A:-Transposition cipher

    B:-Monoalphabetic substitution cipher

C:-Polyalphabetic substation cipher

D:-None of the above

Correct Answer:- Option-C

Question48:-The following service is not provided by digital signature

A:-Integrity

B:-Authentication

C:-Nonrepudiation

D:-Confidentiality

Correct Answer:- Option-D

Question49:-_____ is a technique of temporarily removing inactive programs from the memory of computer system.

A:-Swapping

B:-Spooling

C:-Semaphore

D:-Scheduling

Correct Answer:- Option-A

Question50:-Fence register is used for

A:-CPU protection

B:-Memory protection

C:-File protection

D:-Processor protection

Correct Answer:- Option-B

Question51:-The _____ clause is used to list the attributes desired in the result of a query.

A:-where

B:-from

C:-select

D:-having

Correct Answer:- Option-C

Question52:-We express queries in QBE by

A:-Datalog

B:-Skeleton tables

C:-Entity sets

D:-SQL

Correct Answer:- Option-B

Question53:-_____ is a set of permitted values for each attribute.

A:-Domain

B:-Entity

C:-Constraints

D:-Relationship

Correct Answer:- Option-A

Question54:-Minimal super keys are called

A:-Primary key

B:-Foreign key

C:-Candidate key

D:-Unique

Correct Answer:- Option-C

Question55:-A relation is in _____, every non-key attribute is irreducibly dependent on the primary key.

A:-1NF

B:-2NF

C:-3NF

D:-4NF

Correct Answer:- Option-B

Question56:-A statement that the system executes automatically when a database related event occurs.

A:-View

B:-Alter

C:-Assertion

D:-Trigger

Correct Answer:- Option-D

Question57:-An index record appears for every Search key value in the file

A:-Dense index

B:-Sparse index

C:-Hash index

D:-Single-key index

Correct Answer:- Option-A

Question58:-In hashing, we use the term to denote a unit of storage that can store one or more records.

A:-Field

B:-Hash function

C:-Index

D:-Bucket

Correct Answer:- Option-D

Question59:-The number of transactions executed in a given amount of time is called

A:-Response time

B:-Waiting time

C:-Throughput

D:-Performance

Correct Answer:- Option-C

Question60:-_____ is a predicate expressing a condition that we wish the database always to satisfy.

A:-Authorization

B:-Deadlock

C:-QBE

D:-Assertion

Correct Answer:- Option-D

Question61:-A variation in the representation of the waterfall model is called

A:-Classic life cycle

B:-V-model

C:-Incremental process model

D:-Spiral model

Correct Answer:- Option-B

Question62:-The most common manifestation of separation of software into separately named and addressable components is called

A:-Concern

B:-Pattern

C:-Modularity

D:-Independence

Correct Answer:- Option-C

Question63:-_____ is an indication of the relative interdependence among modules.

A:-Coupling

B:-Cohesion

C:-Hiding

D:-Refactoring

Correct Answer:- Option-A

Question64:-The diagram which help you to determine the functionality and features of the software from the user's perspective.

A:-Class diagram

B:-Deployment diagram

C:-Sequence diagram

D:-Use-case diagram

Correct Answer:- Option-D

Question65:-_____ testing is focuses on the functional requirements of the software.

A:-White-box testing

B:-Black-box testing

C:-Condition testing

D:-Unit testing

Correct Answer:- Option-B

Question66:-The software metric that provides a quantitative measure of the logical complexity of a program.

A:-Cylcomatic complexity

B:-Defect removal efficiency

C:-Object-oriented metrics

D:-LOC

Correct Answer:- Option-A

Question67:-_____ is the most widely used strategy for statistical quality assurance in industry.

A:-Pareto principle

B:-CMM

C:-Six Sigma

D:-IEEE

Correct Answer:- Option-C

Question68:-_____ is an agile software development approach.

A:-Extreme programming

B:-Quality function deployment

C:-PSPEC

D:-Unified process

Correct Answer:- Option-A

Question69:-_____ provide a notation that translates actions and conditions described in a use case into a tabular form.

A:-Decision tree

B:-Pattern

C:-Linear structures

D:-Decision tables

Correct Answer:- Option-D

Question70:-_____ is a project scheduling method.

A:-PERT

B:-Scrum model

C:-UML

D:-RAD

Correct Answer:- Option-A

Question71:-The bus carries bits between

A:-Microprocessor and Memory

B:-Microprocessor and I/Os

C:-Memory and I/Os

D:-Microprocessor, Memory and I/Os

Correct Answer:- Option-D

Question72:-The Gray code for the binary number `(101110)_(2)` is

A:-111101

B:-111001

C:-111011

D:-111010

Correct Answer:- Option-B

Question73:-Simplify the expression AB + A(B + C) + B(B + C) using Boolean algebra techniques is

A:-C + AC

B:-A + AC

C:-B + AC

D:-B + AB

Correct Answer:- Option-C

Question74:-How many 74154 4-line-to-16-line decoders are necessary to decode a six-bit binary number ?

A:-One

B:-Two

C:-Three

D:-Four

Correct Answer:- Option-B

Question75:-The binary equivalent for the BCD number 10000101 is

A:-`(1010100)_(2)`

B:-`(1000100)_(2)`

C:-`(1110100)_(2)`

D:-`(1010101)_(2)`

Correct Answer:- Option-D

Question76:-How many states are there in an eight-bit Johnson counter sequence ?

A:-4

B:-8

C:-16

D:-32
Correct Answer:- Option-C
Question77:-How many clock pulses are required to serially enter a byte of data into an eight-bit shift register ?
    A:-8
    B:-16
    C:-32
    D:-64
    Correct Answer:- Option-A
Question78:-How many address bits are required for a 2048-bit memory ?
    A:-10 bits
    B:-11 bits
    C:-12 bits
    D:-13 bits
    Correct Answer:- Option-B
Question79:-How many tracks are there on a typical 5`1/2` inch floppy disk ?
    A:-64
    B:-67
    C:-77
    D:-87
    Correct Answer:- Option-C
Question80:-Visual cryptography is mainly used for
    A:-Text encryption
    B:-Video encryption
    C:-Audio encryption
    D:-Image encryption
    Correct Answer:- Option-D
Question81:-Whose words are these "No Caste, No Religion, No God for Human being" ?
    A:-Shree Narayana Guru
    B:-K. Ayyappan
    C:-Swami Vivekananda
    D:-Pandit Karuppan
    Correct Answer:- Option-B
Question82:-Which Article of Constitution provide uniform civil code for the citizens ?
    A:-Article 47
    B:-Article 39
    C:-Article 44
    D:-Article 48
    Correct Answer:- Option-C
Question83:-Which agitation in Kerala is known as the "Maru Marakkal Samaram" ?
    A:-Channar Revolt
    B:-Attingal Revolt
    C:-Revolt of 1857
    D:-Kurichiyar Revolt
    Correct Answer:- Option-A
Question84:-Who is known as 'Kalidasa of Kerala' ?
    A:-Kerala Varma Valiya Koil Thampuran
    B:-Kumaranasan
    C:-Azuthachan
    D:-Ulloor S. Parameswaran Ayyar
    Correct Answer:- Option-A
Question85:-Who acted the role of Shree Narayana Guru in the film "Yugapurusham" ?
    A:-Mammooty
    B:-Thalaivasal Vijay
    C:-R. Sukumaran
    D:-Mohanlal
    Correct Answer:- Option-B
Question86:-Which among the following `8^(th)` Schedule languages of the Constitution are spoken by minority polulation ?
    A:-Konkani
    B:-Dogri

C:-Sanskrit

D:-Manipuri

Correct Answer:- Option-C

Question87:-The birth place of Chattampi Swamikal

A:-Kannammoola

B:-Venganoor

C:-Sasthamkovil

D:-Chempazani

Correct Answer:- Option-A

Question88:-How many numbers of days lasted the Vaikom Satyagraha ?

A:-603 days

B:-618 days

C:-630 days

D:-512 days

Correct Answer:- Option-A

Question89:-Which social reformer is known as the "Lincoln of Kerala" ?

A:-Chattampi Swamikal

B:-Pandit Karuppan

C:-K. Ayyappan

D:-Shree Narayana Guru

Correct Answer:- Option-B

Question90:-The Jnanapit Award recipient of 2015 Raghuveer Chaudhari is famous for his writings in _____ language.

A:-Bengali

B:-Kannada

C:-Hindi

D:-Gujarati

Correct Answer:- Option-D

Question91:-In which year the European Union was awarded the Nobel Prize for peace ?

A:-2014

B:-2013

C:-2012

D:-2015

Correct Answer:- Option-C

Question92:-Which movie won the best picture award for the 2016 Oscar ?

A:-The Revenant

B:-Bridge of Species

C:-Spot Light

D:-Brooklyn

Correct Answer:- Option-B

Question93:-Which Iranian film maker who won the "Palme d´ or' passed away recently ?

A:-Majid Majidi

B:-Abbas Kiarostami

C:-Mohsen Makhmalbaf

D:-Jafar Panali

Correct Answer:- Option-B

Question94:-Which country is the last member State of UNO ?

A:-Bahamas

B:-Azerbaijan

C:-South Sudan

D:-Zimbabwe

Correct Answer:- Option-C

Question95:-Whose work is "Keralam Malayalikalude Mathrubhumi" ?

A:-George Varghese

B:-B. Rajeevan

C:-Dr. D. Babu Paul

D:-E.M.S.

Correct Answer:- Option-D

Question96:-Which literary work received the Vayalor Award of 2015 ?

A:-Manushyanu Oru Aamukham

B:-Arachaar

C:-Shyama Madhavam

D:-Anthimahakalam

Correct Answer:- Option-A

Question97:-Who is the Human Resource Development Minister of Union Cabinet ?

A:-Smriti Irani

B:-Prakash Javadekar

C:-Kabilsibel

D:-M. Venkaiah Naidu

Correct Answer:- Option-B

Question98:-Which Article of the Constitution was names by Dr. B. R. Ambedkar as the Jewel Part ?

A:-Article 32

B:-Article 19

C:-Article 29

D:-Article 31

Correct Answer:- Option-A

Question99:-Who won the 2016 COPA America ?

A:-Argenteena

B:-USA

C:-Chili

D:-Columbia

Correct Answer:- Option-C

Question100:-Full form of NSG

A:-Nuclear Suppliers Group

B:-National Security Group

C:-National Savings Group

D:-Nuclear Sanctioned Group

Correct Answer:- Option-A