

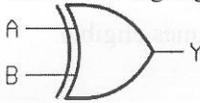
1. Which of the following statements is correct for variable names in Python language?
a) All variable names must begin with an underscore. b) Unlimited length
c) The variable name length is a maximum of 2. d) All of the above
2. Which of the following operators is the correct option for power(ab)?
a) $a \wedge b$ b) $a^{**}b$ c) $a \wedge \wedge b$ d) $a \wedge * b$
3. Which of the following precedence order is correct in Python?
a) Parentheses, Exponential, Multiplication, Division, Addition, Subtraction
b) Multiplication, Division, Addition, Subtraction, Parentheses, Exponential
c) Division, Multiplication, Addition, Subtraction, Parentheses, Exponential
d) Exponential, Parentheses, Multiplication, Division, Addition, Subtraction
4. For tuples and list which is correct?
a) List and tuples both are mutable. b) List is mutable whereas tuples are immutable.
c) List and tuples both are immutable. d) List is immutable whereas tuples are mutable.
5. How do you denote the end of a block in Python 3?
a) By indenting the next line less than the current b) With a semicolon }
c) With the end keyword d) With a backslash \
6. Study the following function:
round(4.576)
What will be the output of this function?
a) 4 b) 5 c) 576 d) 6
7. All keywords in C are in _____
a) LowerCase letters b) UpperCase letters c) CamelCase letters d) None of the mentioned
8. Which of the following cannot be a variable name in C?
a) volatile b) true c) friend d) export
9. What are the disadvantages of Algorithms?
a. It takes a long time to write an algorithm`1 b. Harder to demonstrate branches
c. Both a) and b) d. None of the above
10. _____ is basically an algorithm implemented using comments and explanatory text written in simple English.
a. Pseudocode b. Flowchart c. Algorithm d. None of the above
11. The latest HTML standard is
(A) XML (B) SGML (C) HTML 4.0 (D) HTML 5.0
12. While working on a JavaScript project, in your JavaScript application, which function would you use to send messages to users requesting for text input?
(A) Display() (B) Prompt() (C) Alert() (D) GetInput()
13. HTML is a subset of
(A) SGM T (B) SGML (C) SGMD (D) None of these
14. Symbol used at the beginning of the HREF text is
(A) # (B) \$ (C) & (D) ^
15. Which of the following describes an ERP system?
A) ERP systems provide a foundation for collaboration between departments
B) ERP systems enable people in different business areas to communicate
C) ERP systems have been widely adopted in large organisations to store critical knowledge used to make the decisions that drive the organisation's performance D) All of the above
16. Who are the primary users of SCM systems?
A) Sales, marketing, customer service B) Accounting, finance, logistics, and production
C) Customers, resellers, partners, suppliers, and distributors D) All of the above
17. _____ handling and sharing has become a vital process for efficient and effective working of any organisation.
a. Material b. Resource c. Information d. Database
18. _____ became the fundamental concept of production management and control.
a. BOM b. MRP c. ERP d. MRP II

19. Which of the following is an example of the cloud?
a) Amazon Web Services (AWS) b) Dropbox c) Cisco WebEx d) All of the above
20. Applications and services that run on a distributed network using virtualized resources is known as
a) Parallel computing b) Soft computing c) Distributed computing d) Cloud computing
21. Who Invented Cloud Computing?
A) Paul Baran B) Leonard Kleinrock C) Lawrence Roberts D) Joseph Carl Robnett Licklider
22. Which of the following is not a type of cloud server?
A) Merged Cloud Servers B) Public Cloud Servers
C) Private Cloud Servers D) Dedicated Cloud Servers
23. Which of the following typically keeps tabs on every online activity the victim engages in, compiles all the data in the background, and sends it to a third party?
a) Adware b) Malware c) Spyware d) All of the above
24. Which of the following phrases describes taking someone else's creation or idea and using it for one's own advantage?
a) Intellectual property rights b) Piracy c) Plagiarism d) All of the above
25. Which of these methods is used to check the validity of a message?
a) Digital signature b) Protocol c) Message Digest d) Decryption algorithm
26. Which of the following is typically used when hacking Wi-Fi?
a) Wireshark b) Aircrack-ng c) Norton d) All of the above
27. The function of an earth electrode is to
a) Provide a path of low reluctance b. Provide a path of low resistance or reactance
c. Block the flow of current d. Provide a path of high reluctance
28. ABC fire extinguisher uses _____ chemical to extinguish fire.
a) Mono aluminium paper b) Multi Ammonium Photons
c) Mono Ammonium Phosphate d) Mono Aluminium Phosphate
29. Which of these statements about a parallel resistance circuit is false?
a) Voltage across all resistances are same
b) Current through the different branches of the circuit are different
c) The effective resistance in a parallel circuit decreases
d) Sum of the voltage drops across individual resistances is equal to the applied voltage
30. According to law of resistance, the resistance of a conductor is
a) Inversely proportional to the area of cross-section
b) Directly proportional to the length of conductor
c) Directly proportional to the area of cross-section d. Both (a) and (b)
31. A boiler of 1.5 kW is used for 3.5 hours a day. The energy consumed by the boiler for 1 week is _____ watts-sec
a) 132.3×10^6 b) 13.23×10^6 c) 1323×10^6 d) 1.32×10^{10}
32. Ohm's law is not applicable to
a) Simple circuits b. To a part of a circuit or to a whole circuit
c. Semiconductors, electrolytes, vacuum tubes d. Both (a) and (b)
33. What is the practical unit of energy?
a) kW/h b) kW/sec c) kWh d) kW
34. Protective devices provides protection against
a) Short circuit b. Overloading of equipment
c. Abnormal variations in the supply voltage d. All of the above
35. Wires and cables that supply power from the service head to the building are called
a) Panel feeder wires b) Main feeder wires c) Coaxial cables d) single conductor wire

36. Pliers are used for
 a) Loosening or fastening a screw b. Measure the length of a wire
 c. Cutting or gripping wires d. To test the source of power
37. When forward biased, a diode
 a) Blocks current b) conducts current c) has a high resistance d) drops a large voltage
38. The following truth table is for

A	B	Y
0	0	1
0	1	0
1	0	0
1	1	1

- a) X-NOR gate b) OR gate c) NAND gate d) none of the above
39. The following logic symbol represents



- a) AND gate b) NOT gate c) NAND gate d) XOR gate
40. The only function of a NOT gate is to
 a) Invert an input signal b) acts as a universal gate c) stop a signal d) none of the above
41. An actuator is a device which accepts a physical quantity and converts it into
 a) Mechanical energy b) electrical energy c) displacement d) chemical energy
42. Usually _____ batteries are used in the UPS systems.
 a) NC b) Li-On c) Lead acid d) All of the mentioned
43. Which of the following is the electrolyte used in a lead-acid battery?
 a) Nitric acid b) Sulphuric acid c) Lead-acid d) Hydrochloric acid
44. The complete set of only those logic gates designated as universal gates is
 a) NOT, OR and AND gates b. XNOR, NOR and NAND gates
 c. NOR and NAND gates d. XOR, NOR and NAND gates
45. An example of a sensor which detects the presence of an object
 a) Humidity sensor b) temperature sensor c) proximity sensor d) infrared sensor
46. Which of these statements is false about an integrated circuit?
 a) It is very small and compact b. It cannot be produced in bulk
 c. It can be easily replaced d. It works at a very less voltage

47. In below Statement which is not the features of project

- a) It has a Specific Lifespan
 b) Every project has their Risk & Uncertainty with it
 c) Every project is unique by itself
 d) In project High-Level of Sub-Contraction work cannot be done.

48. Co-ordination with the many agencies Justify the above sentence

- a. It is obstacles of the project management. B. It is the benefit of project management
 c. Neither d. Both a) & b)

49. What sentence suits for the operation categories

- a. It has definite start & definite end
 b. The purpose to attain its objectives and close the project
 c. It is repetitive. D. It closes when it specific objectives have been reached

50. Adequate time is allowed for its implantation on the above statement refer to
a) Crash project b. Normal project c. Disaster project d. All the above
51. The project management system are
a).project work system b)project control system c)both(a) and (b) d)None of the above
52. project work system tools are
a. WBS b. project execution plan c. project procedure plan d. All of the above
53. What are the directing activities
a) Staffing b. Training c. Delegating d. All of the above
54. Project execution plan is responsible for
a.Contracting plan b. Work packing plan c. Organization plan. D. All of the above
55. In which phase planning is turned into action
A .Planning phase b. Execution phase c. Monitoring phase d. Closure phase
56. Risk usually -----as the project progress
a.Increases b. Reduces c .Remains same d. Becomes eligible
57. Best case analysis case analysis
a. High demand, high selling price, low variable cost
b. Low demand, low selling price and high variable cost
c. Both a and b d. None of the above
58. In ----- analysis only one variable is changed at a time
a. Sensitive b. best and worst case c. simulation d. scenario analysis
59. Nature of project planning are
a. Scope b. Schedule c. Cost d. All of the above
60. Merits of Gantt chart are
a. It is simple to understand b .It can be used to show progress
c.It can be used for man power planning d. All of the above
61. pert is a -----event network analysis
a) time b. event c. both a and b d. none of the above
62. -----uses only one time estimate
a. Pert b. Cpm c. Both a and b d. None of the above
63. Project review is -----of project management
a.Initial phase b. Final phase c. Middle phase d. None of the above
64. AR is
a. Combination of digital and real world b. Totally artificial world
c. Complete sense of immersion d. None of the above
65. -----done after the project completed
a. Review b. audit c. both a and b d. None of the above
66. -----is an urban area uses electronic methods and errors to collect data
a. Smart city b. Natural city c. IOT d. None of the above
67. information contains only a finite number of possible values
a. numbers b. symnols c.discrete data d.ordinary data
- 68.the following are not data collection tool
a. survey b. group discussion c. questionnaire d. explain
69. the following not advantages of survey
a. relatively easy to administer b. can be developed in less time
c. cost effective but cost depends on survey mode d. required explanation

70. the group of people from which a statistical sample is taken in statistics
 a. population statics b. population in calculation
 c. population in multiplication d. none of the above
71. the value ofchart is calculate in terms of %
 a. histogram b. boxplot c. bar graph d. pie graph
72. a coin is tossed 40times & lands 6times on the number 4. Wt is the relative frequency of observing the die land on the number 4 ?
 a. 0.14 b. 0.15 c. 0.16 d. 0.17
73. a graph tht displays data that changes continuously over periods of time is called.....
 a. bar graph b. pie chart c. histogramy d. line graph
74. the average value of the given number & is calculated by dividing the sum of given number by the total number of numbers
 a. mode b. median c. mean d. none
75. if the mean and the mode are given as 45 and 35 find the median
 A. 41.6 b. 41.8 c. 75 d. 105
76. find the variance of the first 10 natural number
 a. 7.25 b. 7 c. 8.25 d. 8
77. there is a set of 5 numbers with variance 10 if each number is divided by 2. Wt is the new variance
 a. 0 b. 20 c. 5 d. 2.5
78. when all values remains the same then the measures of dispersion will be.....
 a. 0 b. mode c. median d. 1
79. what is the shape of the symmetrical distribution found
 a. bell shaped b. j shaped c. u shaped d. none of these
80. in absolute measure of dispersion the square root of variation is know as.....
 a. mean deviation b. quartile deviation c. variance d. standard deviation.

81. If $\begin{bmatrix} 2 & 3 \\ x & y \end{bmatrix} + \begin{bmatrix} 1 & 0 \\ 2 & 1 \end{bmatrix} = \begin{bmatrix} 3 & 3 \\ 4 & 5 \end{bmatrix}$ then x and y are
 (a) 2, 4 b) -2, 1 c) 4, 2 d) 3, 2

82. If $A = \begin{bmatrix} 1 & 3 \\ -4 & 2 \end{bmatrix}$ then $A \cdot \text{adj} A =$ —
 a) $\begin{bmatrix} 14 & 0 \\ 0 & 14 \end{bmatrix}$ b) $\begin{bmatrix} 15 & 0 \\ 0 & 15 \end{bmatrix}$
 c) $\begin{bmatrix} 0 & 14 \\ 14 & 0 \end{bmatrix}$ d) $\begin{bmatrix} 0 & 15 \\ 15 & 0 \end{bmatrix}$

83. In solving the equations by Cramer's rule: $2x + y = 1$,
 $3x + 2y = 1$, the values of x & y are —

(a) (1, -1) b) (-1, 1) c) (1, 2) d) (-2, 1)

84. The roots of the equation $\begin{bmatrix} x & 0 & 8 \\ 4 & 1 & 3 \\ 2 & 0 & x \end{bmatrix} = 0$ a) [-4, 4] b) [2, -4]
 [Hint: Singular matrix form] c) [2, 4] d) [2, 8]

85. The angle between the lines having the slopes $\sqrt{3}$ and $\frac{1}{\sqrt{3}}$
 is (a) $\frac{\pi}{4}$ b) $\frac{\pi}{3}$ c) $\frac{\pi}{2}$ d) none

86. The line is passing through (2, -3) and having x -intercept
 twice the y -intercept, then the equation of line is
 (a) $-x + 2y + 4 = 0$ b) $x - 2y + 4 = 0$ c) $x + 2y + 4 = 0$ d) none

87. The equation of a line passing through $(1, -3)$ and mid point of $(4, 5)$ & $(2, -3)$ is — (a) $4x - 2y + 10 = 0$ b) $4x - 2y - 10 = 0$ c) $4x + 2y - 10 = 0$ d) none
88. The equation of a line passing through $(2, -3)$ and parallel to y -axis is
a) $x + 2 = 0$ b) $x = -2/3$ c) $x - 2 = 0$ d) ~~$y - 2 = 0$~~ $y - 2 = 0$
89. The value of $\frac{\sin(\pi - A)}{\sin(-A)} + \frac{\cot(\pi/2 - A)}{\tan(\pi + A)} - \frac{\sec(\pi - A)}{\operatorname{cosec}(\pi/2 + A)}$ = a) 1 b) -1
c) 0 d) ∞
90. If $\tan \alpha = \frac{1}{2}$ & $\tan \beta = \frac{1}{3}$ then $\tan(\alpha + \beta) =$ — a) -1, b) 1 c) 0 d) 2
91. The value of $\frac{1 + \sin 2A - \cos 2A}{1 + \sin 2A + \cos 2A} =$ — a) $\cot A$ b) $-\cot A$
c) $-\tan A$ d) $\tan A$
92. Simplified value of $\frac{\sin 5A + \sin 3A}{\sin 5A - \sin 3A} =$ — a) $\cot 4A \tan A$
b) $\tan 4A \cot A$
c) $\sin 4A \cos A$ d) none
93. The value of $\int \tan^2 \theta \cdot d\theta =$ —
a) $\tan \theta - \theta + C$ b) $\theta - \tan \theta + C$ c) $\sec^2 \theta + C$ d) $-\cot \theta - \theta + C$
94. $\frac{d}{dx} \log(\sec x + \tan x)$ is — a) $\sec x$ b) 1. c) $\frac{1}{\sec x + \tan x}$ d) 0
95. Integration of $(x-3)(x+2)$ w.r. to 'x' is —
a) $\frac{x^3}{3} + \frac{x^2}{2} - 6x + C$ b) $\frac{x^2}{3} + \frac{x^3}{2} - 3x + C$ c) $\frac{x^3}{3} - \frac{x^2}{2} - 6x + C$ d) $\frac{2x^4}{3} - \frac{x^3}{2} + 6x + C$
96. The minimum value of $2x^3 + 3x^2 - 36x + 1$ is
a) 40 b) -41 c) 42 d) -43
97. The displacement of a particle in a time t sec is given by $S = 6t^2 - \frac{t^3}{2}$
then the particle comes to rest in — seconds
a) 8 b) 6 c) 4 d) 2
98. If $y = e^{2 \tan^{-1} x}$ then $\frac{dy}{dx}$ is
a) $\frac{y}{1+x^2}$ b) $\frac{2y}{1+x^2}$ c) $1+x^2$ d) $\frac{y}{1+x^2}$
99. The volume of generated due to revolution of the curve $y = 2x - 1$ about x -axis, between the ordinates $x=1, x=2$ is —
a) $12\pi/3$ cubic units b) $18\pi/3$ cubic units c) $\frac{3}{13}\pi$ cubic units d) none
100. $\int x \sin x \cdot dx =$ —
a) $-x \cos x + \sin x + C$ b) $x \cos x - \sin x + C$
c) $-x \cos x - \sin x + C$ d) $x \cos x + \sin x + C$

ALL THE VERY BEST

KEY ANSWERS TEST 3

1.B	11. D	21. D	31. A	41.C	51.C	61.B	71. D	81. A	91.D
2.B	12.B	22. A	32.C	42.C	52. D	62.B	72.B	82. A	92.B
3.A	13.B	23.C	33.C	43.B	53. D	63.B	73. D	83. A	93.A
4.B	14. A	24. D	34. D	44.C	54. D	64. A	74.C	84. A	94.A
5.A	15. D	25.C	35.B	45.C	55.B	65.B	75. A	85. D	95.C
6.B	16.C	26.B	36.C	46.B	56.B	66.B	76.C	86.C	96.D
7.A	17.C	27.B	37.B	47. D	57. A	67.C	77. D	87.B	97.A
8.A	18.B	28.C	38. A	48. A	58. A	68. D	78. A	88.C	98.B
9.C	19. D	29. D	39. D	49.C	59. D	69. A	79. A	89. D	99.B
10. A	20. D	30. D	40. A	50. D	60. D	70. A	80. D	90.B	100. A