

1. Which of the following is not a typical component of a project planning
 - a. Defining project scope and objectives
 - b. Developing a project budget
 - c. Creating a project team structure
 - d. Monitoring and controlling project progress
2. Projects are building blocks to meet the-----objectives
 - a. project cost
 - b. project time
 - c. personal
 - d. organization
3. A project can be identified by its
 - a. Objectives
 - b. Features
 - c. Both (a) and (b)
 - d. None
4. -----types of projects is allowed for implementing adequate time
 - a. Crash projects
 - b. Normal time
 - c. Optimistic time
 - d. Standard time
5. Characteristics that are shared by projects are
 - a. Performed by people
 - b. Planned, executed, and controlled
 - c. Both (a) and (b)
 - d. None of the above
6. The basic nature of a project is a
 - a. Permanent
 - b. Temporary
 - c. (a) or (b)
 - d. (a) and (b)
7. Which of these is not one of the constraints of a project
 - a. Scope
 - b. Resources
 - c. Team
 - d. budget
8. A process facilitator is a person who can help the project team through the
 - a. Designing
 - b. Executing
 - c. Planning process
 - d. Estimating
9. Risk management is the process of
 - a. Identifying risk
 - b. Analyzing risk
 - c. Responding risk
 - d. All of the above
10. Which of the following would be considered a direct project cost?
 - a. Labor
 - b. Materials
 - c. Equipment
 - d. All of the above
11. -----is commonly used with all forms of projects, including construction, aerospace, and defence, software development among others
 - a. PERT
 - b. CPM
 - c. BOTH
 - d. None of the above
12. Which objective has a direct impact on a company's economical state?
 - a. Quality objective
 - b. Technical objective
 - c. Financial objectives
 - d. None of the above
13. Resources planning ----- all the resources which are required to complete the project successfully
 - a. Identifies
 - b. Modifies
 - c. Clarifies
 - d. All of the above
14. -----is a useful graphical tool which shows activities tasks performance against time
 - a. Charter
 - b. Gantt chart
 - c. Decision tree
 - d. None of these
15. -----is the process of keeping a close eye on the entire project management life cycle
 - a. Project monitoring
 - b. Project scheduling
 - c. Project coordination
 - d. Project planning
16. The project cost show
 - a. The costs related to each stage
 - b. When the costs are increases
 - c. Both a and b
 - d. None of the above
17. Limitations of auditing is
 - a. That it does not reveal a complete picture of business
 - b. That it does not guarantee accuracy of accounts
 - c. That auditor may be biased
 - d. All of the above
18. -----done after the project completed
 - a. Review
 - b. Audit
 - c. Both a and b
 - d. None of these
19. Which of the following is the virtual machine cloud
 - a. Amazon virtual cloud
 - b. Abi cloud
 - c. BMC CLOUD computing imitative
 - d. None of the above
20. How many phases are there in cloud computing planning
 - a. 1
 - b. 5
 - c. 3
 - d. 6
21. All the keywords in Python are in
 - a) Lower case
 - b) Upper case
 - c) Capitalized
 - d) None of the above
22. Which of the following is not a keyword used in Python language?
 - a) Pass
 - b) Eval
 - c) Assert
 - d) Nonlocal
23. Which of the following is the use of function in python?
 - a) Functions do not provide better modularity for applications
 - b) One can't create our own functions

- c)Functions are reusable pieces of programs d)All of the above
24. Amongst the following, who is the developer of Python programming?
a)Guido van Rossum b)Denis Ritchie c) Y.C. Khenderakar d)None of the mentioned above
- 25.list, tuple, and range are the ___ of Data Types.
a)Sequence Types b) Binary Types c)Boolean Types d)None of the mentioned above
- 26.What is the name of the operator ** in Python?
a)Exponentiation b) Modulus c) Floor division d) None of the mentioned above
27. finding and solving errors in the source code is...
a. desk checking b. debugging c. decoding d. testing
- 28 .What is the term used for a block of code that is executed repeatedly until a certain condition is met?
a) Function b) Loop c) Condition d) Variable
- 29.The _____ symbol is used to represent decision in flowchart.
A. Circle B. Rectangle C. Diamond D. None of these
- 30 . _____ is a procedure or step by step process for solving a problem.
A. Algorithm B. Flowchart C. Pseudo code D. All of these
- 31 .The CSS property used to make the text bold is -
a)font-weight : bold b)weight: bold c)font: bold d)style: bold
- 32 . The property in CSS used to change the text colour of an element is -
a)bgcolour b)colour c)background-colour d)All of the above
- 33 .Which of the following is used to specify the subscript of text using CSS?
a)vertical-align: sub b)vertical-align: super
c)vertical-align: subscript d)None of the above
- 34 .How to create a hyperlink in HTML?
a) javaTpoint.com
b)
c) javaTpoint.com
d)<a> www.javatpoint.com <javaTpoint.com /a>
- 35 .The elapsed time between placing an order and it receiving it is also known as _____.
A. elapsed time. B. waiting time. C .time interval. D. expected time.
36. .What is at the heart of any ERP system?
A)Information B)Employees C)Customers D)Database
- 37 .An enterprise is a group of people with _____.
A. common goal. B .separate goal for each department.
C. multiple goals. D .two or more goals.
- 38 .Customer specific products are also known as _____.

- A. make-to-stock. B. make-to-order. C. goods. D. expected products.
39. When you add a software stack, such as an operating system and applications to the service, the model shifts to _____ model.
- a)SaaS b)PaaS c)IaaS d)All of the mentioned
40. Service that generally focuses on the hardware follows which one of the following service models?
- a)IaaS b)CaaS c)PaaS d)All of the mentioned
- 41..Which of the following is the way in which an IoT device is associated with data?
- a)Internet b)Cloud c)Automata d)Network
- 42..Which one of the following is a false statement?
- a) Which of the following is a type of cloud computing service?
- A)Software-as-a-Server (SaaS) B)Software-and-a-Server (SaaS)
C)Software-as-a-Service (SaaS) D)Service-as-a-Software (SaaS)
- 43..Which of the following is a type of independent malicious program that never required any host program?
- a)Trojan Horse b)Worm c)Trap Door d)Virus
- 44 .In an any organization, company or firm the policies of information security come under _____
- a)CIA Triad b)Confidentiality c)Authenticity d)None of the above
- 45 .In order to ensure the security of the data/ information, we need to _____ the data:
- a)Encrypt b)Decrypt c)Delete d)None of the above
- 46.. Which of the following statements is true about the Trojans?
- a) Trojans perform tasks for which they are designed or programmed
b) Trojans replicates them self's or clone them self's through an infections
c) Trojans do nothing harmful to the user's computer systems d)None of the above
47. Specially designed PPE for electrical work includes _____ insulating gloves, matting, blankets, and covers.
- a) Plastic b) Rubber c) Steel d) Wood
48. What is the role of class A extinguisher?
- a) Used on ordinary combustibles such as wood and paper b. Used on flammable liquids
c..Used on electrically energized fire d. Used on non-flammable metals
49. The electrical conductivity of metals is typically of the order of (in $\text{ohm}^{-1}\text{m}^{-1}$)
- (a) 10^7 (b) 10^5 (c) 10^{-4} (d) 10^{-14}
50. Three resistors each of $R\Omega$ are connected to form a triangle. The resistance between any two terminals will be
- (a) $R\Omega$ (b) $\frac{3}{2} R\Omega$ (c) $3R\Omega$ (d) $\frac{2}{3} R\Omega$
51. A 100 watt light bulb burns on an average of 10 hrs. a day for one week. The weekly consumption of energy will be _____ kWh
- (a) 7 (b) 70 (c) 0.7 (d) 0.07
52. For a given line voltage, four heating coils will produce maximum heat when connected

- (a) All in parallel (b) all in series
(c) With two parallel pairs in series (d) one pair in parallel with the other two in series
53. Four resistances $2\ \Omega$, $4\ \Omega$, $5\ \Omega$ and $20\ \Omega$ are connected in parallel. Their combined resistance is $1\ \Omega$ (a) $1\ \Omega$
(b) $2\ \Omega$ (c) $4\ \Omega$ (d) $5\ \Omega$
54. What is the minimum size of rigid steel conduit used for surface conduit wiring?
a) 12 mm Dia (b) 14 mm Dia (c) 16 mm Dia (d) 19 mm Dia
55. What is the principle on which MCB (Miniature circuit breaker) works ?
a) Magnetic effect of electric current (b) Lenz law
c) Faradays law of electric current (d) Flemings Right hand rule
56. Fuses have got advantages of
(a) Cheapest type of protection (b) Inverse time-current characteristic
(c) No maintenance (d) All of the above
57. Starters are required in the induction motor because _____
a) of high starting current (b) they are not self-starting
c) torque produced is very low at starting to overcome inertia (d) all of the mentioned
58. Which of the following is the material used for separator?
a) Nickel (b) Cast iron (c) Ebonite (d) Bronze
59. Which of the following component is formed on the positive plate after the discharged reaction in a lead-acid battery?
a) Sulphuric acid (b) Lead peroxide (c) Lead sulphate (d) Spongy lead
60. Cells are connected in parallel in order to increase the
(a) Life of the cells (b) efficiency (c) current capacity (d) voltage rating
61. In an auto-transformer, power is transferred through
a) Conduction process only (b) Induction process only
c) Both conduction and induction processes (d) Mutual coupling
62. The turn-on voltage of a Ge diode is _____ volt
a) 0.7 (b) 0.3 (c) 1.0 (d) 0.1
63. The forward region of a semiconductor diode characteristic curve is where diode appears as
a) A constant current source (b) a capacitor (c) an OFF switch (d) an ON switch
64. A semiconductor is
a) Another name for a transistor or a diode
b) Characterised by a very large opposition to the flow of electrical current
c) A material whose conductivity is somewhere between that of a conductor and an insulator
d) A material used for making bipolar transistor, uni junction transistor, field effect transistors, etc
65. The output of a 2-input OR gate is zero only when its
a) Both inputs are 0 (b) either input is 1 (c) both inputs are 1 (d) either input is 0
66. An XOR gate produces an output only when its two inputs are
a) High (b) low (c) different (d) same
67. Instruments that contains various inquires that are utilized together data and information from the respondents
a. Group discussion (b) survey (c) questionnaires (d) interview
68. The following is an example of continuous data
a. Counting in the number (b) symbols (c) temperature (d) latter
69. A few questions are predetermined in both topic and order
a. Structured interview (b) unstructured interviews (c) semi structured interviews (d) None of the above
70. relative frequency shows the percentage of observations in each range.....

a. relative frequency table b. cumulative frequency distribution c. grouped data d. ungrouped frequency distribution.

71. data that is gathered for the first during a study or experiment

a. descriptive statistics b. calculation c. inferential statics d. none of the above

72. total 500 students 4,10,11 & 12 which is present in chart is the average number of students in 10 & 12 ?

a. 100 b. 125 c. 500 d. 150

73. which of following option describes a column charts

a. comparison in different categories of data b. relation ship between two steps of numerical data
c. contribution of individual values d. data trend over a period of time

74. the middle value of a group of number is called

a. mean b. mode c. median d. none

75. if the mean and mode are 25 then find the median

a. 13 b. 9 c. 25 d. 0

76. if the standard deviation of a data is 0.012 find the variance.

a. 0.144 b. 0.0014 c. 0.000144 d. 0.0000144

77. find the value of the third quartile is 104 and the quartile deviation is 8

a. 136 b. 146 c. 120 d. 130

78. what is the formula for measuring skewness in a data set

a. mean - median b. mode - median c. $3(\text{mean} - \text{median}) / \text{SD}$ d. mean - mode / SD

79. The scatter with in a distribution that is high on each side indication

a. high uniformity of data b. low uniformity of data c. outliers if data d. none of the above

80. which one of the following is not considered a measure of dispersion

a. mode b. range c. variance d. mean deviation.

81. Find x if $\begin{bmatrix} 5 & -1 & 2 \\ 4 & x \\ 1 & 1 \end{bmatrix} = 15$ a. -4 b. 3 c. 7 d. -7

82. If $A = \begin{bmatrix} 5 & 3 \\ 3 & 2 \end{bmatrix}$ then A^{-1} is the matrix

a. $\begin{bmatrix} 2 & 3 \\ 3 & 5 \end{bmatrix}$ b. $\begin{bmatrix} 5 & 3 \\ -3 & 2 \end{bmatrix}$ c. $\begin{bmatrix} 2 & 3 \\ -3 & 5 \end{bmatrix}$ d. $\frac{1}{19} \begin{bmatrix} 2 & -3 \\ -3 & 5 \end{bmatrix}$

83. Solve by Cramer's rule $2x - 3y = 5$ $7x - y = 8$

a. $x=0, y=1$ b. $x=0, y=-1$ c. $x=1, y=1$ d. $x=-1, y=-1$

84. Find the Characteristic Equation of roots of the matrix $\begin{bmatrix} 1 & 4 \\ 2 & 3 \end{bmatrix}$ a. (1, 2) b. (-1, 5) c. (2, 1) d. (5, -1)

85. a line $2x - ky + 7 = 0$ is passing through (2, 5) Find k
a. $k = 5/11$ b. $-5/11$ c. $1/5$ d. $-1/5$

86. Find the equation of line passing through $(-2, 3)$ & $5x + 4y - 3 = 0$
 a. $4x - 5y - 23 = 0$ b. $4x + 5y - 23 = 0$ c. $5y + x - 23 = 0$ d. $4y - 5y + 23 = 0$
87. Find the equation of a side AC of a triangle whose vertices
 $A(2, -3)$ $B(1, 4)$ & $C(7, -1)$ a. $2x - 5y - 19 = 0$ b. $2x + 5y - 19 = 0$
 c. $2x - 5y + 19 = 0$ d. None.
88. The angle b/w the line $y = 2x + 3$ & $y = 3x - 1$ is _____
 a. $\theta = \tan^{-1}(1/5)$ b. $\theta = \tan^{-1}(1/7)$ c. $\theta = \tan^{-1}(1/7)$ d. None.
89. The value of $\frac{\sin(-\theta)}{\sin(\pi-\theta)} - \frac{\tan(\pi/2-\theta)}{\cot(\pi-\theta)} + \frac{\cos(\pi/2+\theta)}{\cos(3\pi/2-\theta)} =$ _____
 a. 1 b. -1 c. 0 d. -2
90. The value of $\sin 75^\circ$ a. $\frac{\sqrt{3}+1}{2\sqrt{2}}$ b. $\frac{-1-\sqrt{3}}{2\sqrt{2}}$ c. $\frac{1+\sqrt{3}}{1-\sqrt{3}}$ d. $\frac{\sqrt{3}-1}{2\sqrt{2}}$
91. If $\frac{1-\cos 2A}{\sin 2A} = \tan A$ and hence deduce that $\tan 22\frac{1}{2} =$ _____
 a. $\sqrt{2}-1$ b. $\sqrt{2}+1$ c. $\sqrt{3}-1$ d. None
92. The value $\cos 80 + \cos 40 - \cos 20$ _____ a. 1 b. -1 c. 0 d. ∞
93. If $y = e^x \log x$ then $\frac{dy}{dx}$ at $x=1$ is _____ a. e^x b. e^{-x} c. e d. 0
94. If $y = \frac{x-1}{x+1}$ then $y_2 =$ _____
 a. $\frac{-4}{(x+1)^3}$ b. $\frac{2}{(x-1)^2}$ c. $\frac{4}{(x+1)^2}$
 d. $\frac{2}{(x-1)^3}$
95. Differentiate w.r to x $\cot^{-1}(4x^2)$ a. $\frac{-8x}{1+16x^4}$ b. $\frac{8x}{1-16x^4}$ c. $\frac{-8x}{1-16x^4}$
 d. $\frac{1+16x^4}{8x}$
96. If $y = e^{2x} - e^{-3x}$ find $\frac{d^2y}{dx^2}$ at $x=0$ a. -5 b. +5 c. $2/3$ d. $2/5$
97. The equation of tangent to the curve $y = 2x^2 + 3$ at $(2, -1)$.
 a. $11x + y - 23 = 0$ b. $11x - y - 23 = 0$ c. $11x + y + 23 = 0$ d. None.
98. $\int \frac{\sin x}{4 + \cos^2 x} dx =$ _____ a. $\frac{1}{2} \tan^{-1} x/2$ b. $\frac{1}{2} \cot^{-1} x/2$
 c. $\tan^{-1} x/2$ d. None.
99. $\int \sqrt{1 - \sin 2x} dx =$ _____ a. $-\cos x - \sin x + C$ b. $-\cos x + \sin x + C$
 c. $\cos x + \sin x + C$ d. None.
100. Find the area bounded by the curve $y = 3x^2 + 2x + 1$ x axis & the ordinates
 $x=1$ & $x=2$ a. 11 sq units b. 16 sq units c. 17 sq units d. None.

KEY ANSWERS TEST 2

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