

Tribhuvan University
Faculty of Education
Entrance Test 2078

Level: Bachelor Degree

Time: 1.40 hrs

Subject: BICTE

Full Marks: 100

Mark the letter corresponding to the right answer of each question

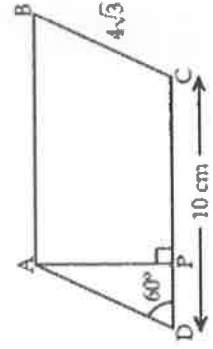
1. Which was the first electronic general-purpose computer?
 - a. Analytic Engine
 - b. Difference Engine
 - c. Atanasoff-Berry Computer
 - d. ENIAC
2. Which of the following generation used a machine language?
 - a. 4th Generation
 - b. 1st Generation
 - c. 3rd Generation
 - d. 2nd Generation
3. What is the binary equivalent of the decimal number 1010?
 - a. 15
 - b. 11
 - c. 12
 - d. 13
4. What is the highest digit that can appear in an octal number system?
 - a. Seven
 - b. Eight
 - c. Fifteen
 - d. Sixteen
5. What are the three fundamental operations in Boolean Algebra?
 - a. Add, Subtract and Multiply
 - b. IF, AND, and BUT
 - c. NOT, AND, and OR
 - d. IF, ELSE and ELSE IF
6. Which shortcut key is used to permanent delete the file without sending it to the recycle bin in Window Operating System?
 - a. Shift + Del
 - b. Ctrl + Del
 - c. Shift + Enter
 - d. Ctrl + Enter

7. What the Booting in the operating system is?
 - a. Start/Restarting computer
 - b. Scan Computer
 - c. Install the program
 - d. Turn off Computer
8. What does CD-ROM stand for?
 - a. Compactable Read Only Memory
 - b. Compactable Disk Read Only Memory
 - c. Compact Data Read Only Memory
 - d. Compact Disk Read Only Memory
9. Which memory is programmed at the time of manufacture?
 - a. RAM
 - b. EEPROM
 - c. EPROM
 - d. PROM
10. Which of the following is an output device?
 - a. Hard Disk
 - b. LED Display
 - c. keyboard
 - d. USB Drive
11. Which one of the following is the fastest memory?
 - a. Register
 - b. Cache
 - c. RAM
 - d. ROM
12. Which type of network operates in a limited geographical area, such as a building or campus?
 - a. LAN
 - b. MAN
 - c. TAN
 - d. WAN
13. What does URL stand for?
 - a. Universal Resource Locator
 - b. Uniform Radio Locator
 - c. Uniform Resource Locator
 - d. Unite Resource Locator
14. What does Wi-Fi stand for?
 - a. wireless fidelity
 - b. wireless federation
 - c. wireless family
 - d. wireless future
15. NIC stands for:
 - a. Network Interface Card
 - b. Not Internet Compatible
 - c. Network Intermediate Cost
 - d. Network Interact Card

16. Which device is a hardware device designed to receive, analyze and move incoming packets to another network?
 a. Hub b. Router c. Modem d. Wireless
17. Which of the following is NOT broadband services?
 a. WiMAX b. 4G c. 3G d. LTE
18. Which is NOT a network protocol?
 a. MAC b. TCP/IP c. POP3 d. HTTP
19. Which is the example IP address?
 a. 192.168.2.1 b. 1011010
 c. F72AD9 d. www.youtube.com
20. Which of the following is the most used social media platform in the world to share different types of contents?
 a. TikTok b. Facebook
 c. Instagram d. Snapchat
21. What is the strongest password?
 a. Password1 b. Password123
 c. Password d. P@ssw0rd!
22. Which is a network security devices/software that monitors incoming and outgoing network traffic and decides whether to allow or block specific traffic based on a defined set of security rules?
 a. Anti-virus b. Firewall
 c. Encryption d. Malware
23. What is the name of an application that appears to look like a helpful application but instead does harm to your computer?
 a. Virus b. Worm
 c. Malware d. Trojan horse
24. You receive an email from your bank, telling you that your account has been compromised and you need to validate your account details or else your account will be closed. you are supposed to click a link to validate your information. What is this an example of?
 a. Security breach b. Ransomware
 c. Spam d. Phishing
25. What does BCC stand for when sending an email?
 a. Blind Copy of a Copy b. Blind Carbon Copy
 c. Blind Copy Carbon d. Bulk Copy of a Copy
26. What are the uses of HTML?
 a. Web page Design b. Data Process
 c. Word Process d. Graphic Design
27. Which of the following is a popular search engine?
 a. Twitter b. Facebook
 c. Google d. TikTok
28. Which is an example of AI based assistant application?
 a. Microsoft Team b. Apple Keynote
 c. Amazon Alexa d. Google Keep
29. Who is the Facebook founder?
 a. Steve Jobs b. J.K Rowling
 c. Mark Zuckerberg d. Jack Ma
30. What do you need to join a zoom meeting?
 a. Phone number and code b. A website addresses
 c. Meeting ID and Password d. All of the above
31. Which command helps you to reverse the last action in MS WORD?
 a. Redo b. Undo c. Repeat d. Copy
32. Which of the following is not a type of page margin in MS Word?
 a. Left b. Right
 c. Center d. Top
33. By default, on which page the header or the footer is printed?
 a. on first page b. on alternate page
 c. on every page d. only selected page

34. What is the term used where a column and row intersect?
 a. Toolbar b. Cell
 c. Formula Box d. Formula Bar
35. What does the term merge cells refer to?
 a. To combining multiple cells
 b. To create a new column from the cell
 c. To make more of the current cell
 d. To create a new row
36. Which is an example of a formula in MS Excel?
 a. =A1+A2 b. add (A1:A2)
 c. A1+A2 d. A1-A2
37. Which symbol must all formulae begin with?
 a. = b. + c. # d. @
38. Which of the following formulae includes an absolute cell reference in MS Excel?
 a. =A1/\$B\$25 b. =A1/B25
 c. =A1*#B#25 d. =Avg(A1:B25)
39. What is the shortcut key to start a presentation from the current slide?
 a. F5 b. Fn + F5
 c. Shift + F5 d. Ctrl + F5
40. What are each individual "pages" of a Power Point called?
 a. Sheet b. Page c. Slides d. Paper
41. Which of the following two sets are equal?
 a. $A = \{1, 2\}$ & $B = \{1\}$
 b. $A = \{1, 2\}$ & $B = \{1, 2, 3\}$
 c. $A = \{1, 2, 3\}$ and $B = \{2, 1, 3\}$
 d. $A = \{1, 2, 4\}$ & $B = \{1, 2, 3\}$
42. If $A = \{3\}$, $B = \{2, 5, 6\}$, then $A \times B$ is
 a. $\{(3, 2), (3, 3), (3, 5)\}$ b. $\{(3, 2), (3, 5), (3, 6)\}$
 c. $\{(3, 2), (3, 5)\}$ d. None of these

43. The sum of a rational and irrational number is
 a. rational b. irrational
 c. both of above d. neither rational nor irrational
44. If one root of the quadratic equation $x^2 + 3x + k = 5$ is 2, then the value of k is
 a. 10 b. -10 c. 5 d. -5
45. The graph of $x = -2$ is a line parallel to the
 a. x-axis b. y-axis
 c. both x- and y-axis d. none of these
46. The quadratic equation has degree
 a. 0 b. 1 c. 2 d. 3
47. The n^{th} term of an A.P. 7, 12, 17, 22, is given by
 a. $5n + 2$ b. $5n + 3$ c. $5n - 5$ d. $5n - 3$
48. In a square of side 10 cm, its diagonal is equal to
 a. 15 cm b. $10\sqrt{2}$ cm c. 20 cm d. 12 cm
49. Which of the following is the highest common factor of 8, 9, and 25?
 a. 8 b. 9 c. 25 d. 1
50. One year ago, a man was 8 times as old as his son. Now his age equal to the square of his son's age. What are their present ages?
 a. 7 years, 49 years b. 5 years, 25 years
 c. 1 years, 50 years d. 6 years, 49 years
51. In given figure, ABCD is a parallelogram. What is the length of AP?
 a. 2 cm b. 4 cm c. 6 cm d. 8 cm



52. A line drawn through the point of contact of the tangent and passing through centre of circle is called
 a. segment
 b. chord
 c. normal
 d. None of these

53. The area of the circle whose diameter is 21 cm is [$\pi = 22/7$]

- a. 346.5 cm²
 b. 37.68 cm²
 c. 18.84 cm²
 d. 19.84 cm²

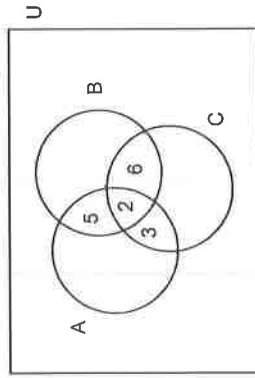
54. Cumulative frequency curve is also called

- a. histogram
 b. ogive
 c. bar graph
 d. median

55. Which number comes in the sequence 16, 32, 64, 128, 256,.....?

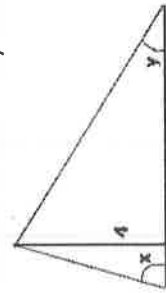
- a. 425
 b. 512
 c. 625
 d. 725

56. Which one of the following is set A?



- a. $A = \{2, 3, 6\}$
 b. $A = \{5, 2, 6\}$
 c. $A = \{5, 2, 3\}$
 d. $A = \{3, 5, 6\}$

57. The values of $\tan x$ and $\cot y$ are



- a. $\frac{3}{4}$ and $\frac{7}{4}$
 b. $\frac{4}{3}$ and $\frac{4}{7}$
 c. $\frac{4}{3}$ and $\frac{7}{4}$
 d. $\frac{3}{4}$ and $\frac{4}{7}$

58. If the sum of the roots is 5 and their product is 6 then the quadratic equation is

- a. $x^2 + 5x + 6 = 0$
 b. $x^2 - 5x + 6 = 0$
 c. $x^2 - 6x + 5 = 0$
 d. $x^2 + 6x + 5 = 0$

59. The geometric shape of Nepal can be approximated as a

- a. Triangle
 b. Square
 c. Circle
 d. Rectangle

60. The circumference of the circular base of a cylinder is 44cm and its height is 10cm. What is the volume of the cylinder?

- a. 1504cm³
 b. 4150cm³
 c. 1450cm³
 d. 1540cm³

61. What is the slope of the line $7y = 4x - 3$?

- a. 4
 b. 7
 c. $4/7$
 d. $-1/4$

62. Which of the following can NOT be the sides of the right angled triangle?

- a. 3, 4, 5
 b. 6, 8, 10
 c. 5, 6, 11
 d. 5, 12, 13

63. What is the value of $5! + 4! - 3!$?

- a. 42
 b. 69
 c. 138
 d. 136

64. Suppose a vector $A = 3i - j + 2k$. What is the magnitude of the vector A?

- a. 4
 b. $\sqrt{12}$
 c. $\sqrt{14}$
 d. 14

65. If the center of circle is (1,3) and radius is 10 units. What is equation of circle?

- a. $(x-1)^2 + (y-3)^2 = 100$
 b. $(x-1)^2 + (y-3)^2 = \sqrt{100}$
 c. $(x+1)^2 + (y+3)^2 = 100$
 d. $(x-1)^2 + (y-3)^2 = -100$

66. What is the meaning of 'assimilation'?

- a. the process of becoming a part of a group, country, society, etc.
 b. the process of taking a position of power or importance illegally or by force.
 c. the process of assisting others in the society or the group.
 d. the process of making sense out of the absurd things.

67. How much do you know about Darjeeling? _____?
- Ever have you been there
 - Have you ever been there
 - Have you been ever there
 - Have you been there
68. We are offering solutions a price almost anyone can afford.
- in
 - at
 - on
 - by
69. 'I shall write a letter'. This can be also said as _____
- A letter is written.
 - A letter will be written.
 - A letter has written to me.
 - A letter has been written by me.
70. The man _____ my house was a cheat.
- to whom I sell
 - to who I sell
 - to whom I sold
 - who was sold to
71. I haven't read the text thoroughly, but given a _____ glance.
- fast
 - quick
 - rapid
 - swift
72. What is the indirect speech of the sentence: Bandana asked Samir, "Where is your English book?"
- Bandana asked Samir where is your English book.
 - Bandana asked Samir where his English book was.
 - Bandana asked Samir where his English book is.
 - Bandana asked Samir where is his English book.
73. The passive form of "I have terminated the agreement" is _____
- The agreement has been terminated.
 - The agreement is terminated.
 - The agreement have terminated by me.
 - The agreement have terminated.
74. They have not seen each other five years.
- after
 - by
 - in
 - for
75. A conversation between two people is called a _____.
- dialogue
 - monologue
 - multilogue
 - code-mixing
76. If I were a millionaire, I _____ for a world tour.
- go
 - will go
 - went
 - would go
77. The water _____ for five minutes. Please turn of the stove.
- boil
 - boils
 - is boiling
 - should boil
78. "Don't shout!" is a _____.
- direct request
 - direct order
 - indirect request
 - indirect order
79. Which is the correctly spelt word?
- refugee
 - refugie
 - amn't I?
 - am not I?
 - aren't I?
 - will I?
80. I'm in love, _____
- amn't I?
 - am not I?
 - aren't I?
 - will I?
81. The basic level at existing primary structure of school education refers to the
- Nursery class
 - Grade 2-5
 - Grade 1-3
 - Grade 1-8
82. Knowledge and skill acquired by a child while playing at playground is an example of education.
- Formal
 - Non-formal
 - Informal
 - Co-education
83. The full form of EMIS in school data management system is
- Education Material Innovation Centers
 - Education Management Information System
 - Extra-Material Innovation System
 - Education Material Information System

84. Transmission of social norms and values from one generation to another is function of education.
- Cultural
 - Economic
 - Global
 - Civic
85. Which of the following is the merit of lecture method?
- It increases learners creativity
 - It is less expensive and covers large groups
 - Provides chance to learn from experiences
 - Foster student centered learning
86. Which of the following provides internationally valid certificate to the learners?
- Formal education
 - Non-formal education
 - Informal education
 - Technical education
87. Which of the following is the first and most important component of lesson plan?
- Teaching materials
 - Specific objectives
 - Teaching activities
 - Learning assessment
88. Which of the following personality is responsible to prepare school calendar?
- Accountant
 - Teacher
 - Head Teacher
 - SMC chairperson
89. We consider education as a system because
- It is owned by government
 - It has large net-work and structure in the society
 - It is more important than other part of the society
 - It is an interconnected structure of input, process, and product.
90. Feedback in educational input refers to the process of providing information about strength and weakness of
- Learning evaluation of students
 - Physical infrastructure supplied
 - Teaching learning activities in the classroom
 - Final product from the school system
91. AKSHYARANKA SHIKSHA is a book written by
- Jaya Prithivi Bahadur Singh
 - Mahatma Gandhi
 - L. P. Devkota
 - Lekhnath Poudel
92. The objective of educational counseling is ...
- To assist the student for self-study
 - To help students academic success
 - To provide knowledge about educational opportunities
 - To enable learners overcome their problems
93. Which of the following is NOT the goal of Millennium Development Goals (MDGs)?
- Reduce child mortality
 - Achieve universal primary education
 - Extend local partnership for development
 - Promote gender equality and empower women
94. Which of the following is NOT related to the goal of Jomtien Conference?
- End gender discrimination
 - Broadening the means and scope of basic education
 - Pay special attention in education to deprived and backward children.
 - Provide free and quality compulsory education to children from minority communities
95. Which of the following is true for human development?
- It is quantitative change
 - It indicates the change in size
 - It can be seen and measurable
 - It is continuous process

96. What is learning?
- a. It is reflective behaviour
 - b. It is the change in emotion
 - c. It is what we see in the way
 - d. It is permanent change in behaviour due to practice
97. Memorization spontaneously without any practice is
- a. Passive memory
 - b. Active memory
 - c. Logical memory
 - d. True memory
98. If the knowledge of riding bicycle helps in using motorcycle, then it is known as ...
- a. Zero transfer of knowledge
 - b. Positive transfer of knowledge
 - c. Negative transfer of knowledge
 - d. Neutral in transferring knowledge
99. Which of the following is the first step in motivation cycle?
- a. Wants
 - b. Needs
 - c. Activities
 - d. Satisfaction
100. The system of teaching of all the subjects of a grade by a teacher is
- a. Subject teaching
 - b. Grade teaching
 - c. Mixed teaching
 - d. Multi-grade teaching

