

Tribhuvan University
Faculty of Education
Re-Entrance Test 2080

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 component of a computer stores data even when the power is turned off?
a. RAM
 c. Hard Disk
b. CPU
d. Monitor
2. Which of the following is not an input device?
a. Keyboard
 c. Monitor
b. Mouse
d. Scanner
3. Who invented the first computer?
a. Allen Turing
 b. Charles Babbage
c. Tim Berbers-Lee
d. Bill Gates
4. What kind of storage do SSDs use?
a. CD-ROM
 d. Flash Memory
b. Floppy Disk
c. Hard Disk
5. What is the primary purpose of a webcam?
 c. Capturing photos and videos
a. Printing documents
b. Scanning barcodes
d. Making phone calls
6. Which mobile operating system is developed by Apple?
a. Android
 b. iOS
c. Windows Mobile
d. Linux Mobile
7. How many bytes are in a kilobyte (KB)?
a. 10
b. 100
 c. 1024
d. 1000
8. What is the binary representation of the decimal number 5?
 a. 0101
b. 1010
c. 1100
d. 1111
9. What is the result of the AND operation when both inputs are "1" in Boolean logic?
a. 0
 b. 1
c. 2
d. 3
10. What is the default file extension for a document created in MS Word?
a. .txt
 b. .docx
c. .pdf
d. .xls
11. Which MS Word feature allows you to create a copy of selected text that you can place elsewhere in the document?
 a. Copy-Paste
b. Cut-Paste
c. Drag and Drop
d. Copy-Drag
12. Which keyboard shortcut is used to select all text in a document in MS Word?
 a. Ctrl + A
b. Ctrl + S
c. Ctrl + C
d. Ctrl + P
13. Which function in MS Word is used to save a copy of the document with a different name or in a different location?
 a. Save As
b. Print
c. Save and Close
d. New Document
14. Which Excel feature is used to arrange data in ascending or descending order?
a. Filter
 b. Sort
c. PivotTable
d. Freeze Panes
15. Which Excel function is used to find the highest value in a range of numbers?
a. SUM
 c. MAX
b. AVG
d. MIN
16. Which is an example of a formula in MS Excel?
 a. =B1+B2
b. add (B1:B2)
c. B1+B2
d. sum(B1,B2)
17. Which Excel feature is used to group and summarize data in a table?
 c. PivotTable
a. Filter
b. Sort
d. Freeze Panes

18. Which Excel feature allows you to freeze rows or columns so that they remain visible while scrolling through a large worksheet?
- a. Filter
 - b. Sort
 - c. PivotTable
 - d. Freeze Panes
19. What is the keyboard shortcut to start a presentation from the beginning in PowerPoint?
- a. Ctrl + P
 - b. Ctrl + S
 - c. F5
 - d. F12
20. Which PowerPoint feature is used to add visual effects to text and objects in a slide?
- a. Transitions
 - b. Animations
 - c. Slide Layouts
 - d. SmartArt
21. Which social media platform is primarily used for professional networking and job searching?
- a. Facebook
 - b. Instagram
 - c. Twitter
 - d. LinkedIn
22. What does "URL" stand for in internet terminology?
- a. Universal Resource Locator
 - b. Uniform Resource Locator
 - c. Unified Resource Locator
 - d. Unique Resource Locator
23. Which folder in an email client is used to store emails you've composed but haven't sent yet?
- a. Inbox
 - b. Outbox
 - c. Sent Items
 - d. Drafts
24. Which part of an email address typically follows the "@" symbol?
- a. Username
 - b. Domain name
 - c. Top-level domain
 - d. Protocol
25. What is the purpose of the "Spam" folder in email?
- a. Store important messages
 - b. Block unwanted emails
 - c. Organize attachments
 - d. Send automatic replies
26. Which of the following is a valid IPv4 address?
- a. 256.168.1.1
 - b. 192.256.1.1
 - c. 192.168.1.256
 - d. 192.168.1.1

27. Which cable type uses a core of glass or plastic to transmit data using light signals?
- a. Coaxial cable
 - b. Cat5e cable
 - c. Fiber optic cable
 - d. Cat6 cable
28. Which networking device is primarily responsible for directing data packets between different networks, including the internet?
- a. Router
 - b. Switch
 - c. Hub
 - d. Access Point
29. Which type of network covers a small geographic area, like a home or office?
- a. WAN
 - b. MAN
 - c. LAN
 - d. PAN
30. What does DHCP stand for in networking?
- a. Dynamic Host Configuration Protocol
 - b. Data Handling and Control Protocol
 - c. Digital High-Speed Circuit Protocol
 - d. Direct Hardware Communication Protocol
31. What is the term for malicious software that encrypts your files and demands a money for decryption?
- a. Virus
 - b. Worm
 - c. Ransomware
 - d. Spyware
32. What is the primary purpose of antivirus software?
- a. Preventing software updates
 - b. Detecting and removing malicious software
 - c. Enhancing computer performance
 - d. Monitoring internet speed
33. Which term describes malicious access to a computer system without authorization?
- a. Phishing
 - b. Hacking
 - c. Cyberbullying
 - d. Cyberstalking
34. Which of the following is NOT a common cybersecurity threat?
- a. Phishing
 - b. Malware
 - c. Firewall
 - d. Ransomware

35. What technology uses AI to autonomously control vehicles, such as self-driving cars?
- a. Quantum Computing b. Reinforcement Learning
 c. Robotics d. Augmented Reality (AR)
36. What technology enables AI systems to understand and generate human-like text or speech?
- a. Quantum Computing b. Reinforcement Learning
 c. Natural Language Processing d. Robotics
37. Which organization developed Google Bard?
- a. Amazon b. Google
 c. Facebook d. OpenAI
38. Which learning tool is known for providing interactive coding lessons and challenges for programming enthusiasts?
- a. Duolingo b. Coursera
 c. Codecademy d. Grammarly
39. Which tools is commonly used in digital pedagogy to facilitate online discussions and collaboration among students?
- a. Virtual Reality (VR)
 b. Augmented Reality (AR)
 c. Learning Management Systems (LMS)
 d. Natural Language Processing (NLP)
40. Who has been CEO of Microsoft since 2014?
- a. Shantanu Narayan b. Sundar Pichai
 c. Arvind Krishna d. Satya Nadella
41. What is the Cartesian product of $A = \{1, 2\}$ and $B = \{a, b\}$?
- a. $\{(1, a), (1, b), (2, a), (b, b)\}$ b. $\{(1, 1), (2, 2), (a, a), (b, b)\}$
 c. $\{(1, a), (2, a), (1, b), (2, b)\}$ d. $\{(1, 1), (a, a), (2, a), (1, b)\}$
42. Which of the following two sets are equal?
- a. $A = \{1, 2\}$ and $B = \{1\}$ b. $A = \{1, 2\}$ and $B = \{1, 2, 3\}$
 c. $A = \{1, 2, 3\}$ and $B = \{2, 1, 3\}$ d. $A = \{1, 2, 4\}$ and $B = \{1, 2, 3\}$
43. The value of $\begin{vmatrix} 2 & -1 \\ 5 & -1 \end{vmatrix}$ is
- a. 3 b. -7
 c. 5 d. -2

44. Which of these is not necessary for the equivalent relation?
- a. Reflexive b. positive
 c. Symmetric d. Transitive
45. Which of the following gives the formula for $A - B$?
- a. A^c b. A only
 c. B only d. $A \cup B$
46. Which of the following formula gives the total surface area of cylinder?
- a. $\pi r^2 h$ b. $2\pi r(r+h)$
 c. $2\pi r h$ d. $2\pi r$
47. Which of the following will be the value of (x, y) of the equation $2x + y = 8$?
- a. (1,2) b. (2,2)
 c. (3,2) d. (4,2)
48. The equation of a circle with center (0,0) and radius 5 unit is
- a. $x^2 + y^2 = 25$ b. $x^2 + y^2 = 1$
 c. $x^2 + y^2 = 9$ d. $x^2 + y^2 = 16$
49. Which of the following gives the value of x of the equation $x^2 + 5x + 6 = 0$?
- a. 2,3 b. -2,3
 c. 2,-3 d. -2,-3
50. $\lim_{x \rightarrow 3} \frac{x^2 - 9}{x - 3}$ is equal to
- a. 6 b. 0 c. 3 d. -3
51. Which of the following given the value of $f'(x)$ if $f(x) = 4x^2$?
- a. $2x$ b. $4x$
 c. $8x$ d. 4
52. The value of $\int_1^4 2x \, dx$ is
- a. 15 b. 16
 c. 17 d. 18
53. The equation of a line parallel to X-axis is given by
- a. $x = 0$ b. $x = 3$
 c. $x = a$ d. $y = b$
54. Which of the following is the reflection image of point (2,-2) through X-axis?
- a. (2,2) b. (-2,2)
 c. (2,-2) d. (-2,-2)

55. The quadratic equation $ax^2 + bx + c = 0$ have two real equal roots if

- a. $\sqrt{b^2-4ac} \neq 0$ b. $\sqrt{b^2-4ac} < 0$
c. $\sqrt{b^2-4ac} > 0$ d. $\sqrt{b^2-4ac} = 0$

56. Which of the following is true?

- a. The slope of a line is inclination of a line.
b. Slope of a line is the angle made by line with X- axis.
c. Slope of a line is tangent of angle made by a line with positive X- axis
d. All of the above.

57. To divide the total group of data in two equal parts, which of the following measure of central tendency is applicable?

- a. mean b. median
c. mode d. quartiles

58. The number system which consists of only two digits 0 and 1 is called

- a. decimal b. octal
c. binary d. quinary

59. The matrix with the same number of rows and columns is called

- a. rectangular b. diagonal
c. triangular d. square

60. The matrix formed by changing the rows and column is calledof that matrix.

- a. inverse b. composite
c. complement d. transpose

61. Which of the following number is divisible by 3?

- a. 12322 b. 12456
c. 13543 d. 1112224

62. The value of $C(10, 8)$ is

- a. 90 b. 45
c. 80 d. 180

63. The value of $P(7,4)$ is

- a. 210 b. 220
c. 280 d. 55

64. The solution of $(x - 2)^2 = 0$ is

- a. 3 b. 2 c. 5 d. 7

65. The area enclosed by straight lines in linear programming is called

- a. Argand region b. bounded region
 c. feasible region d. concave region

66. All of them did not come for the demonstration _____ them were spectators too.

- a. most of b. none of
c. both of d. some of

67. What have you been watching on the TV _____ three hours?

- a. since b. for
c. until d. from

68. 'Ranjit Singh anglicized his name and became Ralph Singh'. The meaning of the underlined word here is _____.

- a. made English in form or character
b. made Indian in form or character
c. made like an angel
d. happened to change

69. The man _____ house was robbed has still not been paid by the insurance company

- a. which b. that
 c. whose d. whom

70. The spread of Covid- 19 is associated _____ people's mobility.

- a. to b. by c. with d. towards

71. It's going to happen.

- a. definitely b. sure
c. hardly d. well

72. 'The old lady touched and patted the cow'. In other words, this can be said _____.

- a. The cow patted and touched the old lady.
b. The cow was touched by the old lady patting her
 c. The cow was touched and patted by the old lady.
d. The patted cow touched the old lady.

73. Could you _____ me your book, please?

- a. borrow b. lend
c. to borrow d. to lend

74. I invited everyone, _____ Nirmal, to the party.
- a. except b. accept
c. beside d. by the side of

75. In Old English 'hath' was used in place of _____.
- a. have b. has
c. hand d. haste

Read the passage below and answer the questions from (76-80)

My next pet was a pigeon, the most revolting bird to look at, with his feathers pushing through the wrinkled scarlet skin, mixed with the horrible yellow down that covers baby pigeons and makes them look as though they have been peroxidizing their hair. Because of his repulsive and obese appearance, we called him Quasimodo.

Since he had an unorthodox upbringing, without parents to teach him, Quasimodo became convinced that he was not a bird at all, and refused to fly. He walked everywhere. He was always eager to join us in anything we did. He would even try to come for walks with us. So, you had to either carry him on your shoulder, which was risking an accident to your clothes, or else you let him walk behind. If you let him walk, then you had to slow down your own pace to suit his, for should you get too far ahead you would hear the most frantic and imploring coos and turn around to find Quasimodo running desperately after you.

76. The narrator describes the pigeon as a 'revolting bird' because _____
- a. he could not fly
b. he had to be carried everywhere
 c. he had wrinkled skin covered with yellow feathers
d. he was fat
77. Quasimodo got his name because _____.
- a. he was fat and ugly b. he was attractive
c. he could not fly d. he love behaving like human beings
78. We know that Quasimodo was always eager to go on walks because _____.
- a. he walked everywhere
b. he did not know how to fly
 c. he complained loudly if he was not taken along
d. he always copied whatever humans did

79. Quasimodo protested when he was _____.
- a. left at home b. lifted on human shoulders
c. taken for a walk d. left behind during walks

80. The phrase 'risking an accident to your clothes' means _____.
- a. the bird pecked at their clothes
 b. there was a chance of the bird soiling their clothes
c. the bird risked a fall
d. the bird did not like their clothes

81. Which of the following statements represents the broader meaning of education?

- a. Education is a process of maturation
 b. Education is a life-long process
c. Education is a process of learning
d. Education is a religious process

82. Universal Declaration of Human Rights was issued in-----

- a. 1945 AD b. 1946 AD c. 1947 AD d. 1948 AD

83. The best way of teaching is to teach from-----

- a. where the learner is. b. where the courses are .
c. where the achievement is. d. where the test begins.

84. Which statement signifies the concept of 'Education for all'?

- a. educating infants and adult b. ensuring education for all
c. educating all children d. educating all girls and women

85. Which of the following is an input of the educational process?

- a. Objectives b. Management system
c. Achievement d. Activities

86. The main objective of 'Basic Education' is to develop competency in...

- a. literacy b. life skill
c. vocational skills d. professional skill

87. The first English Primary School was established by Jung Bahadur Rana in....

- a. BS1910 Shraavan 20 b. BS 1910 Ashwin 22
 c. BS 1910 Ashwin 27 d. BS 1910 Ashwin 25

88. Which of the following role does a teacher have to play?

- a. controller b. authoritarian
c. disciplinar d. mentor

89. Post-Literacy classes are the examples of.....
a. formal education ~~b. non-formal education~~
c. correspondence education ~~d. technical education~~
90. Which of the following is the present school education structure in Nepal ?
a. 3+5+4 ~~b. 5+3+4~~
~~c. 8+4~~ ~~d. 5+2+5~~
91. Which of the following is the indigenous period of education in Nepal?
a. After the rule of King Prithivi Narayan Shah
b. During the rule of King Prithivi Narayan Shah
c. After the introduction of Democracy
~~d. During the rule of Rana autocracy~~
92. Kindergarten method of education is introduced by...
a. Hegal ~~b. Dewey~~
~~c. Froebel~~ ~~d. Montessori~~
93. The program of education, which links to the needs, interests, abilities, and aptitudes of the students is in...
a. formal education ~~b. non-formal education~~
c. informal education ~~d. incidental education~~
94. Transmission of culture belongs to function of education.
~~a. Conservative~~ ~~b. neutral~~
c. progressive ~~d. revolutionary~~
95. The social policy of education must be based on.....
a. status quo ~~b. laissez fair~~
c. maintaining discipline ~~d. social justice~~
96. Which one is the primary group of socialization?
a. School ~~b. Family~~
c. Peer group ~~d. society~~
97. What is the main intention of teacher training?
a. Developing knowledge ~~b. Informing code of conduct~~
~~c. Developing Pedagogical skill~~ ~~d. Strengthening belief~~
98. Which one of the following is the Stress Management Skills?
a. Positive thinking ~~b. Anger management~~
c. Take revenge ~~d. Deep dialogue~~

99. Which of the following is indigenous knowledge?
a. Curing ailment using herb
~~b. Using cetamol for fever control~~
c. Using Micro-Oven for heating bread
~~d. Using liquid to repeal mosquito~~
100. Which of the following is responsible for developing local curriculum?
a. Local government
~~b. Wada authority~~
c. Province government
~~d. School Management Committee~~