



Tribhuvan University
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Model Questions for BIT (Bachelor's in Information Technology) Programme

English

1. I like in my spare time
(a) reading (b) read (c) to read (d) to reading
2. I went to the bookshop 'Harry Potter'.
(a) For buying (b) to buy (c) to buying (d) for to buy
3. He is interested learning Romanian.
(a) in (b) on (c) to (d) for
4. Would you like to drink, Sir ?
(a) anything (b) anywhere (c) nothing (d) something
5. What next weekend?
(a) do you do (b) are you doing (c) will you do (d) did you do
6. How many students in your class from Bangladesh?
(a) comes (b) come (c) came (d) are coming
7. I am hungry. I want two of chicken .
(a) plates (b) pieces (c) bowls (d) gasses
8. They are ugly and expensive; people buy them
(a) though (b) yet (c) still (d) besides
9. What time
(a) the train leaves? (b) leaves the train?
(c) is the train leaving? (d) does the train leave?
10. I promise I study harder.
(a) will (b) am going to (c) may (d) must
11. How long English?
(a) are you learning (b) have you been learning
(c) do you learn (d) you learn
12. I hope that a school For village children
(a) opens (b) is opened (c) has to be opened (d) be opened

13. Closest similar meaning of word 'compunction' is
(a) remorse (b) merciful (c) connive (d) recklessness
14. Closest similar meaning of word 'demolish' is
(a) repair (b) consume (c) humiliate (d) destroy
15. Closest similar meaning of word 'beneficent' is
(a) charitable (b) imagery (c) profitable (d) cost-effective
16. Closest similar meaning of word 'mendacity' is
(a) mandatory (b) untruthfulness (c) veracity (d) potential
17. Closest opposite meaning of word 'theocracy' is
(a) hierocracy (b) ideology (c) conservative (d) church state
18. Closest opposite meaning of word 'integrate' is
(a) accommodate (b) compose (c) articulate (d) segregate
19. Closest opposite meaning of word 'Calm' is
(a) excited (b) restful (c) cool (d) serene
20. Closest opposite meaning of word 'wordy' is
(a) rambling (b) concise (c) diffuse (d) voluble
21. A teacher needs to discuss in classes, it _____ curiosity in students.
(a) creates (b) created (c) create (d) will creates
22. Successful people always _____ two things: one, determination and second, sincerity.
(a) had (b) doing (c) did (d) have
23. They like swimming, whenever they have a leisure time. (Which word is a verbal noun?)
(a) Leisure (b) free (c) like (d) swimming
24. Nobody likes heap of garbage in front of his house. (Which word is a collective noun?)
(a) heap of garbage (b) in front (c) house (d) likes
25. Find interrogative pronoun in sentence "Why did you not call me.? This made me alarmed."
(a) you (b) me (c) why (d) did
26. Right grammatical category of the underlined phrase in the sentence " Ram handed a book to his sister" is
(a) complement (b) direct object (c) adjunct (d) indirect object
27. Which of the following is noun?
(a) real (b) readable (c) reliable (d) reality

28. English is today the third native language worldwide after Chinese and Hindi, with some 380 million speakers.
 (a) the most spoken (b) the more spoken (c) much spoken (d) most spoken
29. We could barely get any information at the airport.people seemed to have idea about the flights.
 (a) Many / any (b) A lot of / any (c) Few / no (d) Only a few / some
30. his friends speaks any English.
 (a) Some (b) All (c) Many (d) Neither of
31. These differences between two photographs with the help of Photoshop.
 (a) should remove (b) have to remove
 (c) could have been removed (d) must have removed
32. New legislationin congress but itby many.
 (a) was introduced / wasn't accepted (b) was introduced / didn't accept
 (c) is introduced / won't accept (d) introduced / hadn't been accepted
33. Mike has been told he will have to pay the fine ---- his high rank in the military.
 (a) even if (b) furthermore (c) despite (d) on purpose that
34. The economy in China is booming; many foreign investors are planning to enter China's market.
 (a) Nonetheless (b) so as to (c) in addition to (d) that's why
35. I wish you making that noise. It's bothering me.
 (a) would stop (b) are going to stop (c) stop (d) can stop
36. more help, I could call my neighbor.
 (a) Needed (b) Should I need (c) I have needed (d) I should need
37. If you plan to take a long trip in the car, you must get a full tank of gas or you ---- out of gas.
 (a) have to run (b) should have run (c) had better run (d) might run
38. If you want to get a good night's sleep, you ---- any tea or coffee in the evenings.
 (a) would rather drink (b) don't have to drink
 (c) mustn't drink (d) not able to drink
39. It is not easy for many civil servants to on their salaries as the inflation rate is extremely high.
 (a) get by (b) turn up (c) wear out (d) run over
40. I thought the party was going to be boring, but itto be the most unforgettable evening of my life.
 (a) turned out (b) looked around (c) passed away (d) fell back on

Math

41. Every rational number is also
(a) a natural number (b) an integer (c) a whole number (d) a real number

42. If $a - ib = \frac{3-2i}{3+2i}$ then $a^2 + b^2 =$

- (a) 1 (b) $\frac{4}{3}$ (c) $\frac{3}{5}$ (d) $\frac{2}{9}$

43. Given $U = \{1,2,3, \dots, 15\}$, $A = \{x: x \geq 8\}$, $B = \{x: x \leq 4\}$ then $\overline{A \cap B} =$

- (a) \emptyset (b) U (c) $A \cup B$ (d) None of these

44. Which are the equal ordered pairs ?

- (a) (2,4), (4,2) (b) (2,2), (4,4) (c) (4,2), (4,2) (d) all of them

45. $S_\infty = \frac{a}{1-r}$, when a, r & S_∞ denotes first term, common ratio and sum to infinity. If

- (a) $|r| < 1$ (b) $|r| > 1$ (c) $|r| = 1$ (d) none of these

46. If ${}^{21}C_x = {}^{21}C_y$ then which is true ?

- (a) $x \neq y$ (b) $x=y$ (c) $x+y=21$ (d) either (b) or (c)

47. Which is not correct ?

- (a) $(A^T)^T = A$ (b) $(A + B)^T = A^T + B^T$ (c) $(AB)^T = A^T B^T$ (d) $(AB)^T = B^T A^T$

48. Which is not correct ?

(a) $\begin{vmatrix} a_1 & a_2 & a_3 \\ b_1 & b_2 & b_3 \\ c_1 & c_2 & c_3 \end{vmatrix} = \begin{vmatrix} a_1 & b_1 & c_1 \\ a_2 & b_2 & c_2 \\ a_3 & b_3 & c_3 \end{vmatrix}$ (b) $\begin{vmatrix} 0 & a_2 & a_3 \\ b_1 & 0 & b_3 \\ c_1 & c_2 & 0 \end{vmatrix} = 0$

(c) $\begin{vmatrix} a_1 & a_2 & a_3 \\ 0 & 0 & 0 \\ c_1 & c_2 & c_3 \end{vmatrix} = 0$ (d) $\begin{vmatrix} a_1 & b_1 & c_1 \\ a_2 & b_2 & b_2 \\ a_3 & b_3 & c_3 \end{vmatrix} = \begin{vmatrix} a_1+ka_3 & b_1+kb_3 & c_1+kc_3 \\ a_2 & b_2 & c_2 \\ a_3 & b_3 & c_3 \end{vmatrix}$

49. The equation $x=0$ represents
 (a) x-axis (b) y-axis (c) the origin (d) none of these
50. The angle between the lines $xy=0$ is
 (a) 0° (b) 60° (c) 90° (d) 120°
51. Which is correct ?
 (a) $\log_{10}^1 = 0$ (b) $\log_{10}^{0.1} = -1$ (c) $\log_{10}^{10} = 1$ (d) all of them
52. The domain of $y = f(x) = \frac{1}{x}$ is
 (a) $R - \{0\}$ (b) R (c) $(-2,1)$ (d) $(-1,1)$
53. Let $f: R \rightarrow R$ be defined by $f(x) = 10x - 7$ then $f^{-1}(x) =$
 (a) $\frac{1}{10x+7}$ (b) $\frac{1}{10x-7}$ (c) $\frac{x+7}{10}$ (d) $\frac{x-7}{10}$
54. If t be a positive real number then the least value of $t + \frac{1}{t}$ is :
 (a) 1 (b) 2 (c) 4 (d) 3
55. The value of $\lim_{x \rightarrow \infty} \frac{\sqrt{x+1}}{\sqrt{x+1}}$ is
 (a) 0 (b) 1 (c) $\frac{1}{2}$ (d) -1
56. The point of discontinuity of the function $f(x) = \frac{x^3-27}{x-3}$ is
 (a) 3 (b) 6 (c) 27 (d) 0
57. If $x + y = xy$ then $\frac{dy}{dx} =$
 (a) $\frac{x-1}{y-1}$ (b) $\frac{y-1}{1-x}$ (c) $\frac{1-x}{y-1}$ (d) $\frac{1+y}{1-x}$
58. If $x = 2at, y = at^2$ then $\frac{dy}{dx} =$
 (a) t (b) $\frac{1}{t}$ (c) t^2 (d) 1
59. If the total cost function $C=50x+5000$. The marginal cost function MC is
 (a) $50 + \frac{5000}{x}$ (b) $25x^2 + 5000x$ (c) 50 (d) none of these

67. Which is the measure of dispersion ?
 (a) mean (b) median (c) mode (d) range
68. Two brothers: Mr. X and Mr. Y appear in an interview for getting the scholarship. The scholarship can be provided for two persons. The probability of getting scholarship by Mr. X is $\frac{1}{7}$ and getting by Mr. Y is $\frac{1}{5}$. What is the probability that both of them will get scholarship ?
 (a) $\frac{12}{35}$ (b) $\frac{1}{35}$ (c) $\frac{23}{35}$ (d) none of these
69. The equation $\sin x + \cos x = 2$ has
 (a) infinite solution (b) finite solution (c) no solution (d) unique solution
70. $\sin^{-1}x + \cos^{-1}x =$
 (a) $\frac{\pi}{x}$ (b) $-\pi/2$ (c) $\pi/2 - x$ (d) 1
71. The system of linear equations $2x+3y=5$ and $4x+6x=9$ are
 (a) consistent & dependent (b) consistent & independent
 (c) inconsistent & independent (d) inconsistent & dependent
72. The degree of polynomial equation $ax^2 + bx + c = 0$ is
 (a) 0 (b) 1 (c) 2 (d) not define
73. If one root of a quadratic equation in the real coefficient is $\sqrt{2}$ then equation is
 (a) $x^2 + \sqrt{2}x + 2 = 0$ (b) $x^2 + 2 = 0$
 (c) $x^2 - 2 = 0$ (d) none of these
74. The equation $x^2 + y^2 = 0$ represents
 (a) circle (b) degenerate circle (c) an empty set (d) a straight line
75. If four quantities a,b,c and d are such that a:b=3:4, b:c = 6:7 and c:d=8:9, then the ratio between a and d is
 (a) 3:8 (b) 1:3 (c) 4:7 (d) 7:4

76. By selling 175 pens, a stationary store gains the selling price of 50 pens. What is his gain percent?

- (a) 40% (b) $28\frac{4}{7}\%$ (c) 50% (d) none of these

77. A, B, C and D enter into a partnership. A, B, C, subscribe $\frac{1}{3}, \frac{1}{4}, \frac{1}{5}$ of the capital respectively and D, the rest. What is the share of profit of D if the total profit is Rs. 24600?

- (a) Rs. 8200 (b) Rs. 5330 (c) Rs. 6150 (d) Rs. 4920

78. If US \$1 = Rs. 78.15. How many US dollars are equivalent To Rs. 10,000?

- (a) \$127.96 (b) \$172.96 (c) \$ 196.72 (d) \$172.62

79. The effective rate corresponding to 10% p.a. convertible quarterly is

- (a) 40% (b) 10.1% (c) 10.4% (d) none of these

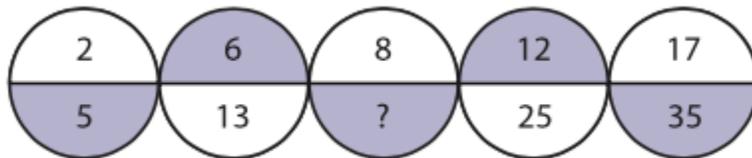
80. The present value of an immediate annuity is; where symbols are there usual meaning

(a) $\frac{p}{i} \{(l+i)^n - l\}$ (b) $\frac{p}{i} (l+i) \{(l+i)^n - l\}$

(c) $\frac{p}{i} \{l - \frac{l}{(l+i)^n}\}$ (d) $\frac{p(l+i)}{i} \{l - \frac{l}{(l+i)^n}\}$

General Knowledge + Logical Reasoning

81. The study of sound & sound waves is called -----
(a) Mechanical (b) Technical (c) Acoustics (d) Sound Waves
82. A river always has
(a) Delta (b) Fishes (c) Boats (d) Banks
83. Which is the international sports competition that is held only in Nepal?
(a) Dandi Biyo (b) Elephant polo (c) Bhale judhai (d) Kabaddi
84. Which mountain is understood by 'Killer Mountain'?
(a) Manaslu (b) Ama Dablam (c) Cho Oyu (d) Kala Patthar
85. Which of the following is necessary for 'knowledge'?
(a) School (b) Teacher (c) Text book (d) Learning
86. Two concepts are related in some way; establish the same relationship on the basis of the alternatives given for **UTS : FDC :: WVU : ?**
(a) YWV (b) WXY (c) UVW (d) HGF
87. Insert the appropriate arithmetical signs in (?, ?) to establish the relation: **9 ? 6 ? 3 = 27**
(a) +, × (b) -, + (c) ÷, + (d) +, ÷
88. If LIGHT is coded as GILTH, find the code for RAINY.
(a) IARYN (b) ARINY (c) NAIRY (d) RINAY
89. A, B and C are intelligent, A, D and E are laborious, D, C and E are honest and A, B, and E are ambitious. Which of the following are not honest?
(a) A and B (b) C and A (c) A and D (d) A and D
90. What is missing number in the given series below?



- (a) 17 (b) 27 (c) 35 (d) 41

IT general

91. Which of following is not a search engine?
(a) Google (b) Altavista (c) Yahoo (d) Firefox Mozilla
92. Name of the screen that recognizes touch input is :
(a) Recog screen (b) Point Screen (c) Touch Screen (d) Android Screen
93. Arrange in ascending order the units of memory TB, KB, GB, MB
(a) TB>MB>GB>KB (b) MB>GB>TB>KB
(c) TB>GB>MB>KB (d) GB>MB>KB>TB
94. What is full form of WWW
(a) World Wide Web (b) Wide World Web
(c) Web Wide World (d) World Web Wide
95. Junk email is also called
(a) Spam (b) Spoof (c) Sniffer (d) Jmail
96. Which of following is used to make presentation slides?
(a) Powerpoint (b) Word (c) Excel (d) Internet
97. Who is father of computer?
(a) Charles Babbage (b) Balise Pascal (c) Garden Moore (d) John Von Neumann
98. Which of following is used as a memory in computers?
(a) RAM (b) Keyboard (c) Printer (d) Mouse
99. MS-Word is an example of
- (a) Operating System (b) Application Software
(c) Output Device (d) Processing Device
100. The printed output from a computer is known as.....
(a) Soft copy (b) Hard Copy (c) Photo Copy (d) Paper

