

Techspire Top 100 Scholarship Test
Sample Questions

FM = 100

PM = 50

Section 1: Computer – 20 Marks (20 Questions)

1. Which one is an input device?
a) Monitor b) Keyboard c) Printer d) Speaker
2. What does CPU stand for?
a) Central Process Unit b) Computer Primary Unit c) Central Processing Unit
d) Central Processor Utility
3. Which of the following is an Operating System?
a) MS Word b) Chrome c) Linux d) Google
4. Which key combination is used to paste content?
a) Ctrl + X b) Ctrl + C c) Ctrl + V d) Ctrl + Z
5. MS Excel is used for:
a) Presentations b) Spreadsheets c) Typing letters d) Browsing
6. What is the full form of HTTP?
a) HyperText Transfer Protocol
b) Hyperlink Transfer Text Protocol
c) HyperText Transfer Program
d) Hyper Transfer Text Protocol
7. Which programming language is known as the “mother” of all programming languages?
a) Python b) Java c) C d) HTML
8. Which one is a web browser?
a) Windows b) Firefox c) DOS d) Excel
9. Flowcharts are used to:
a) Draw graphics
b) Represent algorithms
c) Type documents
d) Play games
10. Which of these is not an output device?
a) Projector b) Printer c) Scanner d) Monitor
11. Which of the following is NOT an application software?
a) Excel b) PowerPoint c) Windows d) Word
12. What is phishing?
a) Virus removal process
b) Attempt to obtain sensitive information fraudulently
c) File backup
d) Security software
13. Which one is a valid email address?
a) mail#gmail.com
b) mail.gmail.com
c) mail@gmail
d) mail@gmail.com

14. A collection of interconnected computers is called a:
 a) System b) Data c) Network d) Server
15. Which one is not a programming language?
 a) HTML b) Python c) Java d) Excel
16. What does URL stand for?
 a) Uniform Resource Locator
 b) User Record Link
 c) Uniform Resource Link
 d) Unique Registered Link
17. What is the function of antivirus software?
 a) Increase memory
 b) Protect against malware
 c) Speed up the computer
 d) Improve graphics
18. What part of the computer is known as the "brain"?
 a) RAM b) Hard Drive c) CPU d) Keyboard
19. Which is a secure way of using the internet?
 a) Clicking on unknown links
 b) Downloading from random sites
 c) Sharing passwords
 d) Using strong passwords
20. What is the main purpose of operating system?
 a) Create web pages
 b) Manage hardware and software
 c) Format hard drives
 d) Monitor screen brightness

Section 2: Mathematics – 20 Marks (20 Questions)

21. LCM of 12 and 18 is:
 a) 36 b) 72 c) 6 d) 24
22. If 20% of a number is 60, the number is:
 a) 100 b) 200 c) 300 d) 400
23. Simplify: $2x + 3x - 5 = 0$
 a) $x = 1$ b) $x = -1$ c) $x = 0$ d) $x = 5$
24. A triangle with sides 3cm, 4cm, and 5cm is a:
 a) Scalene b) Equilateral c) Isosceles d) Right-angled
25. What is the determinant of a 2x2 matrix $\begin{bmatrix} 2 & 3 \\ 4 & 5 \end{bmatrix}$?
 a) 2 b) -2 c) 10 d) -10
26. What is the binary equivalent of 6?
 a) 100 b) 110 c) 101 d) 111
27. The coordinate (0,5) lies on the:
 a) X-axis b) Y-axis c) Origin d) None
28. What is the probability of getting a head in a coin toss?

- a) 0 b) 1 c) $\frac{1}{2}$ d) $\frac{1}{4}$
29. If $A = \{1, 2, 3\}$, $B = \{2, 3, 4\}$, then $A \cap B$ is:
 a) $\{1, 2, 3, 4\}$ b) $\{2, 3\}$ c) $\{1, 4\}$ d) \emptyset
30. A person earns 10% interest on Rs. 5000 in one year. What is the interest earned?
 a) 50 b) 500 c) 100 d) 250
31. The value of x in $2x - 4 = 10$ is:
 a) 2 b) 5 c) 6 d) 7
32. In coordinate geometry, the slope of a horizontal line is:
 a) 1 b) 0 c) Undefined d) -1
33. The number of subsets of the set $\{a, b, c\}$ is:
 a) 4 b) 6 c) 8 d) 3
34. $(x + 2)(x - 2) = ?$
 a) $x^2 + 4$ b) $x^2 - 4$ c) $x^2 - 2x + 4$ d) $x^2 + 2x - 4$
35. 5C_2 (Permutation) is:
 a) 5 b) 10 c) 15 d) 20
36. If matrix A is 2×2 and B is 2×3 , then AB is of order:
 a) 2×2 b) 2×3 c) 3×2 d) 3×3
37. What is the sum of angles in a triangle?
 a) 90° b) 120° c) 180° d) 360°
38. The function $f(x) = x^2$ is:
 a) Linear b) Quadratic c) Constant d) Exponential
39. Probability of choosing a vowel from A, B, C, D, E is:
 a) $\frac{1}{5}$ b) $\frac{2}{5}$ c) $\frac{3}{5}$ d) $\frac{4}{5}$
40. If $A = \{1, 2\}$, how many elements in $A \times A$?
 a) 2 b) 3 c) 4 d) 6

Section 3: General Knowledge – 10 Marks (10 Questions)

41. Capital city of Australia is:
 a) Sydney b) Canberra c) Melbourne d) Brisbane
42. When was the United Nations established?
 a) 1942 b) 1945 c) 1950 d) 1939
43. Which country won the FIFA World Cup 2022?
 a) Germany b) France c) Argentina d) Brazil
44. Which river is the longest in Nepal?
 a) Gandaki b) Karnali c) Koshi d) Bagmati
45. Founder of Microsoft is:
 a) Elon Musk b) Steve Jobs c) Bill Gates d) Sundar Pichai
46. SAARC stands for:
 a) South Asian Association for Regional Cooperation
 b) South American Alliance for Regional Commerce
 c) Southeast Asia Resource Council
 d) None
47. What is WHO responsible for?
 a) Weapons regulation b) World health issues c) Wildlife protection d) Water conservation

48. Which one is a mythological character?
 a) Ram b) Prithvi Narayan Shah c) Buddha d) Bhanubhakta
49. Who is known as the "Father of the Nation" in Nepal?
 a) Gyanendra Shah b) BP Koirala c) Prithvi Narayan Shah d) Jung Bahadur Rana
50. UNHCR is an organization that deals with:
 a) Trade b) Education c) Refugees d) Agriculture

Section 4: English (20 Marks) – 20 Questions

51. He ____ to school every day.
 a) go b) going c) goes d) gone
52. The book is ____ the table.
 a) in b) on c) under d) above
53. She is ____ honest girl.
 a) a b) an c) the d) no article
54. Which is the correct sentence?
 a) She go to college. b) She goes to college.
 c) She going to college. d) She gone to college.
55. Which of these is a synonym of "Happy"?
 a) Sad b) Angry c) Joyful d) Lazy
56. Opposite of "Expand":
 a) Enlarge b) Grow c) Shrink d) Extend
57. One-word: "One who writes poems"
 a) Author b) Poet c) Editor d) Writer
58. Which sentence is correct?
 a) He don't like tea. b) He doesn't like tea.
 c) He isn't like tea. d) He not like tea.
59. Change to passive: "She wrote a letter."
 a) A letter is written. b) A letter was written. c) A letter is wrote. d) A letter writes.
60. Choose correct transformation: "He is strong."
 a) He is not strong. b) Is he strong? c) He was strong. d) Strong he is.
61. Meaning of idiom "Break the ice":
 a) Start conversation b) Freeze water c) End argument d) Play in snow
62. Antonym of "Generous":
 a) Kind b) Cruel c) Stingy d) Loving
63. Fill in the blank: "She ____ finished her homework."
 a) has b) have c) is d) are
64. Correct the sentence: "They playing football."
 a) They play football. b) They played football. c) They are playing football. d) They is playing football.
65. Choose correct article: "He is ____ engineer."
 a) a b) an c) the d) no article
66. Synonym of "Intelligent":
 a) Foolish b) Smart c) Lazy d) Silent

67. What is the plural of "Mouse"?
a) Mouses b) Mices c) Mice d) Mouse
68. Correct tense: "He ____ dinner at 8 PM."
a) eat b) eats c) eating d) eaten
69. Choose correct spelling:
a) Recieve b) Receive c) Recive d) Receeve
70. Complete: "The more you work, ____ you get."
a) better b) the better c) best d) good

Section 5: Logical Reasoning (10 Marks) 10 Questions

71. What comes next: 2, 4, 8, 16, ?
a) 20 b) 24 c) 32 d) 30
72. If CAT = 3120, then DOG = ?
a) 4157 b) 4156 c) 4167 d) 4168
73. Opposite of Southwest:
a) Northeast b) Northwest c) Southeast d) East
74. Which number is different: 121, 144, 169, 172
a) 121 b) 144 c) 169 d) 172
75. Missing number: 2, 6, 12, 20, ?
a) 30 b) 32 c) 36 d) 40
76. If in a code language, BOOK = CPLL, then READ = ?
a) SFBE b) SEBF c) SFBF d) SECE
77. Which direction will you face if you start facing East and turn 270° clockwise?
a) North b) South c) West d) East
78. A clock shows 3:15. What is the angle between the hour and minute hand?
a) 7.5° b) 15° c) 22.5° d) 30°
79. If $9 \times 3 = 18$, $8 \times 4 = 20$, $7 \times 5 = ?$, what is the answer?
a) 24 b) 22 c) 26 d) 25
80. If NEPAL is written as OGRBM, how is INDIA written?
a) JOEJB b) JNEJB c) JNEJC d) JMEJB