

R.N College , Hajipur Vaishali

BCA Entrance Test Questions with Answer Key -2020

BCA ENTRANCE EXAMINATION – 2020

Roll No.

Full Marks=50 x 2=100

NOTE: ATTEMPT ALL THE QUESTION, EACH QUESTION CONSISTING OF 2 MARKS

1. Verification of a Login Name and Password is known as
A. Configuration B. Accessibility C. Authentication D. Logging in
2. GPRS Stands for
A. General Packet Radio Service
B. General Packet ratio Service
C. General Parcel Radio Service
D. General Parcel Ratio Service
3. Which of the following district is on the international border of india ?
A. Sirsa B. Anantnag C. Karimgang D. Puruba
4. Let $N = 1421 \times 1423 \times 1425$. What is the remainder when N is divided by 12 ?
A. 0 B. 9 C. 3 D. 6
5. How many Permutation of the letters of the word "APPLE" are there
A. 600 B. 120 C. 240 D. 60
6. Find the Missing Term 48 , 24 , 96 , 48 , 192 , _____
A. 76 B.90 C. 96 D. 98
7. Select Odd one
A.Diagonal B.Diameter C. Tangent D. Arc
8. Antonym of Include =.....
A. Add B.Exclude C. Insert D. cover
9. Synonym of Garbage =.....
A. Cleanliness B. Trash C. Valuable D. Purity
10. Find common grammatical syntax error:
After I had eaten my lunch, I..... to her while she was eating hers.
A. Was talking B. have talking
C. talked D. talking
11. The hottest planet
A. Mercury B. Earth C. Venus D. Jupiter
12. The longest mountain chain.....
A.Andes B. central alps
C. limestone alps C. none of these
13. The largest country.....
A. China B. USA C. Japan D. Russia
14. The first artificial satellite launched in space.....
A.Sputnik 1 B. PSLV -C37 C. SLV -3 D. SAMIR
15. (RAFAEL) Military aerospace missiles was invented by
A.Israel B.Russia C. USA D. China
- 16.www stands for ?
A. World Whole Web B. Wide World Web C. Web World Wide D. World Wide Web
- 17.Which of the following are components of Central Processing Unit (CPU) ?
A. Arithmetic logic unit, Mouse B. Arithmetic logic unit, Control Unit
C. Arithmetic logic unit, Integrated Circuits D. Control Unit, Monitor

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18. Where is RAM located?
- A. Expansion Board B. External Drive C. Mother Board D. All of above
19. Full form of URL is ?
- A. Uniform Resource Locator B. Uniform Resource Link
C. Uniform Registered Link D. Unified Resource Link
20. In which of the following form, data is stored in computer ?
- A. Decimal B. Binary C. Hexa Decimal D. Octal
21. Who is also known as Father of Computer ?
- A. Vint Cerf B. Tim Berner Lee C. Charles Babbage D. Steve Jobs
22. Where are saved files stored in computer ?
- A. RAM B. Hard disk C. Cache D. Any of the above
23. ROM is non volatile.
- A. TRUE B. FALSE
24. 20% of 2 is equal to
- A. 20 B. 4 C. 0.4 D. 0.04
25. A person sold a stove for Rs. 423 and incurred a loss of 6%. At what price would it be sold so as to earn a profit of 8%?
- A. 490 B. 486 C. 500 D. 525
26. The ratio 5:20 expressed as percent equals to
- A. 50% B. 125% C. 25% D. None of above
27. 2.09 can be expressed in terms of percentage as
- A. 2.09% B. 20.9% C. 209% D. 0.209%
28. Half of 1 percent written as decimal is
- A. 5 B. 0.5 C. 0.05 D. 0.005
29. Find the average of first 97 natural numbers.
- A. 47 B. 37 C. 48 D. 49
30. A train covers the first 10 km at a speed of 20 km per hour another 20 km at 40 km per hour and the last 15 km at 15 km per hour. Find the average speed for the entire journey.
- A. 24 km/hr B. 26 km/hr C. 21 km/hr D. None of above
31. Radiocarbon is produced in the atmosphere as a result of collision between fast neutrons and nitrogen nuclei present in the
- A. atmosphere
B. action of ultraviolet light from the sun on atmospheric oxygen
C. action of solar radiations particularly cosmic rays on carbon dioxide present in the atmosphere
D. lightning discharge in atmosphere

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32. It is easier to roll a stone up a sloping road than to lift it vertical upwards because
- A. work done in rolling is more than in lifting
 - B. work done in lifting the stone is equal to rolling it
 - C. work done in both is same but the rate of doing work is less in rolling
 - D. work done in rolling a stone is less than in lifting it
33. The nucleus of an atom consists of
- A. electrons and neutrons
 - B. electrons and protons
 - C. protons and neutrons
 - D. All of the above
34. The metal used to recover copper from a solution of copper sulphate is
- A. Na
 - B. Ag
 - C. Hg
 - D. Fe
35. Pollination is best defined as
- A. transfer of pollen from anther to stigma
 - B. germination of pollen grains
 - C. growth of pollen tube in ovule
 - D. visiting flowers by insects
36. Plants receive their nutrients mainly from
- A. Chlorophyll
 - B. Atmosphere
 - C. Light
 - D. Soil
37. The members of the Rajya Sabha are elected by
- A. The people
 - B. Lok Sabha
 - C. Elected members of the legislative assembly
 - D. Elected members of the legislative council
38. A and B invest in a business in the ratio 3 : 2. If 5% of the total profit goes to charity Rs. 855, the total profit is:
- A. Rs. 1425
 - B. Rs. 1500
 - C. Rs. 1537.50
 - D. Rs. 1576
39. The present Lok Sabha is the
- A. 14th Lok Sabha
 - B. 15th Lok Sabha
 - C. 16th Lok Sabha
 - D. 17th Lok Sabha
40. The ratio of width of our National flag to its length is
- A. 3:5
 - B. 2:3
 - C. 2:4
 - D. 3:4

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41. Given set $A = \{1, 2, 3\}$ and a relation $R = \{(1, 2), (2, 1)\}$, the relation R will be
A. reflexive if $(1, 1)$ is added
B. symmetric if $(2, 3)$ is added
C. transitive if $(1, 1)$ is added
D. symmetric if $(3, 2)$ is added
42. Given a function f as $f(x) = 5x + 4$, $x \in \mathbb{R}$. If $g : \mathbb{R} \rightarrow \mathbb{R}$ is inverse of function ' f ' then
A. $g(x) = 4x + 5$
B. $g(x) = \frac{5}{4x-5}$
C. $g(x) = 5x - 4$
D. $g(x) = \frac{x-4}{5}$
43. If A is a square matrix of 3×3 order, where $|A| = 3$, then find out the value of $|\text{adj } A|$.
A. 3
B. 9
C. 30
D. $1/3$
44. The diagonal elements of a skew symmetric matrix are
A. all zeroes
B. are all equal to some scalar $k (\neq 0)$
C. can be any number
D. none of these
45. If a matrix has 6 elements, then number of possible orders of the matrix can be
A. 2
B. 4
C. 3
D. 6
46. $f(x) = \begin{vmatrix} \cos x & 2 \sin x & \sin x \\ x & x & x \\ 1 & 2x & x \end{vmatrix}$, then $\lim_{x \rightarrow 0} \frac{f(x)}{x^2}$ is equal to
A. 0
B. -1
C. 2
D. 3
47. A function
$$f(x) = \begin{cases} \frac{\sin x}{x} + \cos x & , x \neq 0 \\ 2k & , x = 0 \end{cases}$$
is continuous at $x = 0$ for
A. $k = 1$
B. $k = 2$
C. $k = 12$
D. $k = 32$
48. If $f(x) = e^x$ and $g(x) = \log_e x$, then $(g \circ f)'(x)$ is
A. 0
B. e
C. 1
D. $1 + e$
49. The point(s) on the curve $y = x^2$, at which y-coordinate is changing six times as fast as x-coordinate is/are
A. $(2, 4)$
B. $(3, 9)$
C. $(3, 9), (9, 3)$
D. $(6, 2)$
50. If p and q are the degree and order of the differential equation
$$\left(\frac{d^2 y}{dx^2}\right)^2 + 3\frac{dy}{dx} + \frac{d^3 y}{dx^3} = 4$$
Then the value of $2p - 3q$ is
A. 7
B. 3
C. -3
D. -7

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question	ans	QUE	ANS
1	C	26	C
2	A	27	C
3	C	28	D
4	C	29	D
5	D	30	D
6	C	31	A
7	A	32	D
8	B	33	C
9	B	34	D
10	C	35	A
11	C	36	D
12	A	37	C
13	D	38	B
14	A	39	D
15	A	40	B
16	D	41	C
17	B	42	D
18	C	43	B
19	A	44	A
20	B	45	B
21	C	46	A
22	B	47	A
23	A	48	C
24	C	49	B
25	B	50	D