

BCA Entrance Mock Test –I

Time: 2 hrs.

Full Marks: 100

(Attempt all questions)

Grammar (40X1=40)

1. The woman is dressed a blue sari.
a) in b)with c)by d)at
2. They enjoyed Christmas.
a) in b)during c)on d)at
3. silver is precious metal.
a) a b)an c)the d)none
4. What is the passive of "I did it."?
a) It is done. b) It is being done.
c) It was done. d) It has been done.
5. Come and sit me.
a) by b)over c) at d)on
6. She is with good health.
a) belesseed b)blessed c) blesseed d)blesed
7. The plural form of "ape" is
a)apes b) apo c) apeses d)none
8. If overt is to secret in the same way as cautious is to
a) pompous b)rash c)clever d)coy
9. Whatif you were bitten by a poisonous snake?
a)were you do b)would you have done c)would you do d)would you had done
10. She thanked me for what I
a)did b)do c) have done d)had done
11. I am happy.....?
a)am I b)aren't I c) can I d)do I
12. Never yield temptation.
a) for b)in c) to d)over
13. I prefer coffee tea
a) with b)over c) by d)to
14. Synonyms of "asset" is
a) aid b) credit c) gem d) favor
15. The teacher seemed
a) relaxed b)happiness c) quickly d)bore
16. Let's go,?
a) will you b)shall you c) shall we d)will we
17. his leg is broken, he ran fast
a) however b)although c)despite off d)in spite of
18. They said, "Where is the zoo?"

- a) They asked me where the zoo was. b) they wanted to know where the zoo was.
 c) They asked where the zoo is. d) they inquired where the zoo is.
19. "Domestic" is same as.....
 a) locale b) local c) country d) foreign
20. We saw them out.
 a) go b) to go c) going d) went
21. Today I feel
 a) lazy b) laziness c) lazily d) none
22. The past participle of fly is
 a) flee b) fly c) flow d) flown
23. One should do duty very well.
 a) ones b) one c) one's d) their
24. "To throw out of currency" means
 a) extinguish b) forget c) destroy d) put out of use
25. "The alpha and omega" means
 a) two opposite things b) beginning and the end
 c) just a two symbol d) none of the above
26. When they I a letter.
 a) entered, was writing b) was entering, wrote
 c) had entered, wrote d) enter, is writing
27. SHIELD: SOLDIER
 a) stethoscope: doctor b) book: author c) advocate: court d) helmet: rider
28. The tag question of " I am an engineer" is
 a) Aren't I? b) am not I? c) Don't I? d) Am not I?
29. Wight is to nocturnal in the same way as spring is to
 a) winter b) summer c) autumn d) vernal
30. Out of the moon means
 a) lightening b) suddenly c) euphoria d) out of the gloom
31. She undergoes a strange experience of seeing something not present in front of her. In other hands she is suffering from.....
 a) hallucination b) bronchitis c) tonsillitis d) psychosis
32. He is happy and am I.
 a) too b) so c) neither d) either
33. I never watch TV and do they.
 a) either b) so c) neither d) too
34. The antonym of "Genuine" is
 a) true b) facsimile c) pure d) original
35. The synonym of purgatory is
 a) polluted city b) hell c) heaven d) sky
36. Because of the heavy rain, they decided to call the cricket match.
 a) out b) up c) off d) down
37. The doctor felt her pulse.....
 a) run b) ran c) to run d) running
38. There are a few students in the class,.....?

- a) are there b) aren't there c) are they d) few they
39. This is the man.....
 a) which I know b) who I know c) that I know d) whom I know
40. The committees to reform on policies.
 a) needs b) is needing c) need d) has needed

Mathematics (50X1=50)

41. There are 70 student in a computer class .If number of girls are 6 times that boys then how many girls are there?
 a) 70 b) 10 c) 60 d) 50
42. Find the number X , if $(80\% \text{ of } x) = 40$, then $x = ?$.
 a) 20 b) 30 c) 40 d) 50
43. The average of six number is x and the average of three of is y . if the average of the remaining there is Z ,
 a) $2x = y + z$ b) $x = y + z$ c) $x = 2y + 2z$ d) none of these
44. The slope of the line parallel to x-axis is.
 a) 0 b) 1 c) $\frac{0}{0}$ d) cannot be predict
45. what is the value of x in series $2, 5, 10, x, \dots (n^2 + 1)$. ($n \geq 1$)
 a) 13 b) 17 c) 15 d) 16
46. for a matrix additions , the criteria is
 a) both have same order b) both have different order
 c) both have row equal d) both have column equal.
47. Find the value of x and y in $3x + 4y = 7$ & $4x - y = 3$
 a) 1, 2 b) 2, 1 c) 2, 2 d) 1, 1
48. The differences between $\frac{3}{5}$ of 80 and 30 % of 80 is
 a) 20 b) 14 c) 15 d) 24
49. If $\begin{vmatrix} k & 1 & 0 \\ 2 & 0 & k \\ 0 & 2 & -1 \end{vmatrix} = 0$, $K = ?$
 a) 1 b) -1 c) 0 d) ± 1
50. The number of second in 1 -days is
 a) 84600 b) 86400 c) 8600 d) 86450
51. If $\frac{5}{7}$ of a number is 1025 ,then $\frac{3}{7}$ of number is
 a) 735 b) 430 c) 615 d) 560
52. The largest 4 digit number exactly divided by 88 is
 a) 9999 b) 9768 c) 9988 d) 8888
53. A sum lent out at 12% per annum compound interest for two years amounts to Rs15, 660. The sum lent is
 a) 12,000 b) 12,250 c) 12,484 d) 12,880
54. If $2 \times 3 = 812$ and $4 \times 5 = 1620$ then $6 \times 7 = ?$
 a) 6677 b) 6767 c) 2428 d) 2824
- Find the value of $\log_2 16$ is
 a) $\frac{1}{8}$ b) 2 c) 4 d) 8
56. ABC is right angled triangle with perpendicular side equal to 8 and the base side to 6 .The hypotenuse side is equal to.
 a) 10 b) 9 c) 7 d) 5
57. $4y - x = 10, 3x - 2y = 0$, then $xy = ?$

- a) 2 b) 3 c) 6 d) 12
58. If $x = 4y$, what percent of $2x$ is $2y$?
a) 20 % b) 40 % c) 30 % d) 25%
59. Find the values of x in series 1, 1 ,2, 3, 5, 8, 13, x ?
a) 21 b) 22 c) 19 d) 23
60. In certain school 20 students and 10 math and 10 are taking history and 7 are taking both, how many are taking math only?
a) 20 b) 4 c) 3 d) 7
61. A number, when dividing by 12, gives a remainder of 7. If the same number is divided by 6, then the remainder must be.
a) 1 b) 2 c) 3 d) 4
62. Ram spent Rs 40 which is 5% of his daily wage then his total daily is
a) 400 b) 600 c) 800 d) 1000
63. If $a+b=c$, then what is the average value of a, b are c ?
a) $\frac{a+b}{3}$ b) $\frac{c}{3}$ c) $\frac{2c}{3}$ d) $\frac{c}{3}$
64. The population of town increased from 1,75,000 to 2,62,500 in a decade .what is the average percent increase of population per year?
a) 4% b) 6% c) 5% d) 50%
65. The interest rate that doubles a sum in 10 years is
a) 12% b) 11% c) 10% d) 9%
66. A person crosses a 600m long street in 5 minutes what is his speed in km per hour?
a) 10 b) 8.4 c) 3.6 d) 7.2
67. Find the slope of equation $x=5$.
a) 0 b) 5 c) ∞ d) cannot be calculated
68. If 3 bananas cost of 50 cents, how many bananas can be bought for 20 dollars?
a) 120 b) 115 c) 110 d) 130
69. $5^3 : 5 = 3 \times 5 : x$, then find x
a) $\frac{5}{3}$ b) $\frac{3}{5}$ c) $\frac{1}{5}$ d) 5
70. If BAD is coded as YZW and FIGHT is coded as URTSG , then HIGH will be coded as
a) PRSP b) TRST c) RSTR d) SRTS
71. If x is an integer, then which of the following is the production of the next two integer than $2(x+1)$?
a) $4x^2 + 14x + 12$ b) $4x^2 + 12$ c) $x^2 + 14x + 12$ d) $x^2 + x + 12$
72. The value of $\sum_{n=1}^{10} (-1)^n$ is
a) 1 b) -1 c) 10 d) 0
73. If a matrix is of order 5×7 , then each row will contain elements
a) 5 b) 12 c) 35 d) 7
74. $\log_a 81 = 4$, then the values of 'a' is
a) 4 b) 3 c) 5 d) none of these
75. If A.M of x and y is 10 and G.M of there is 8. What is the value of x and y ?
a) 16, 4 b) 15, 5 c) 14, 6 d) 12, 8
76. If the ratio of $\frac{1}{4}$ to $\frac{1}{5}$ is equation to the ratio of $\frac{1}{4}$ to x .then what is the value of x ?
a) $\frac{1}{20}$ b) $\frac{5}{16}$ c) $\frac{1}{5}$ d) $\frac{5}{4}$
77. Modulus of 'i' is
a) i b) -i c) 1 d) -1

78. A vendor bought bananas at 6 for a rupee. How many for a rupee must has sell to gain 20 %?
a) 3 b) 4 c) 5 d) 6
79. The slop of the line $\frac{x}{a} + \frac{y}{b} = 3$ is
a) $-\left(\frac{1}{b}\right)$ b) $-\left(\frac{b}{a}\right)$ c) ab d) $-\frac{1}{ab}$
80. Sum of first 'n' odd natural number is
a) $n(n+1)$ b) n^2 c) $\frac{n(n+1)(2n+1)}{6}$ d) $\frac{n(n+1)}{2}$
81. If 'n+1' is even , then 'n+13' is
a) even b) odd c) neither a and b d) none
82. The value of $\cos^{-1} \theta + \sin^{-1} \theta$ is
a) θ b) $\pi\theta$ c) π d) $\frac{\pi}{2}$
83. if $A = \{ 1, 2, 3 \}$ then non- empty proper subset are
a) 8 b) 7 c) 6 d) 5
84. For a function to be inverse, it must be
a) Injective b) bijective c) Surjective d) function only
85. $ax^2 + 2hxy + by^2 = 0$ represents
a) a pair of lines b) a pair of lines passing through origin
c) a line only d) None of these
86. $4x + 2y + 3 = 0$ and $8x + 4y + 6 = 0$ are
a) Perpendicular lines b) equal lines c) parallel lines d) parallel and equal
87. Which one of is correct.
a) Perpendicular lines have same slope b) Parallel lines have same slope
c) Parallel and perpendicular lines have slope d) none of there
88. $\lim_{x \rightarrow 2} \frac{x^2 - 4}{x - 2}$
a) 0 b) 2 c) 3 d) 4
89. Inverse of matrix exists if matrix is
a) Singular b) Invertible c) unit d) None of these
90. The ratio of largest 2 digit number to largest digit number is
a) 1 b) 10 c) 11 d) 0

General Knowledge (10X1=10)

91. Nepal was hit by the 7.8 magnitude Earthquake on:
a) 2072 Baisakh 10 b) 2072 Baisakh 11 c) 2072 Baisakh 12 d) 2072 Baisakh 13
92. The new constitution of Nepal, "Nepal Ko Sambidhan" was released on:
a) 2072 Asoj 4 b) 2072 Asoj 3 c) 2072 Asoj 2 d) 2072 Asoj 1
93. Who is the writer of Novel Ek Chihan ?
a) Hridaychandra Singh Pradhan b) Krishnachandra Singh Pradhan
c) Bijay Bahadur Malla d) Parijat
94. Kusti is played on:
a) Ground b) Court c) Ring d) Akhada
95. Who is considered as the father of computer?
a) Charles Babbage b) Bill Gates c) Mark Juckerberg d) Chris Hughes
96. Which one of the following is the database program?
a) MySQL b) MS-Excel c) MS-Word d) MS-Outlook
97. What is the full form of LCD?
a) Light and Clear Display b) Liquid Cristal Display

- c) Light Cristal Display
98. Which is the first bank in Nepal?
a) Nepal Bank Limited
c) Nepal Investment Bank
- d) Liquid Clear Display
b) Rastriya Baniija Bank
d) Nepal Rastra Bank
99. Which of the following field is not awarded by Noble Prize?
a) Computer Science b) Physics c) Economics d) Literature
100. How many provinces (Pradesh) are in Nepal according to the new constitution?
a) 5 b) 7 c) 8 d) 9

---Best of Luck---

BCA कार्यक्रम सम्बन्धी जानकारी

१. **BCA कस्तो कार्यक्रम हो ?**
⇒ BCA त्रिभुवन विश्वविद्यालयबाट सम्बन्धन प्राप्त ८ सेमेस्टरमा विभाजित ४ वर्षे Computer Technology सम्बन्धी कार्यक्रम हो। BCA भनेको Bachelor of Computer Application हो। यो कार्यक्रम अन्तर्राष्ट्रिय गुणस्तरको मान्यता प्राप्त र संसारभरि नै उच्च माग भएको विषयसँग सम्बन्धित छ।
२. **BCA गरिसकेपछि के-कस्ता कामहरू गर्न पाइन्छ ?**
⇒ BCA गरिसकेपछि राष्ट्रिय तथा अन्तर्राष्ट्रिय संस्थाहरूमा Software Developer, Software Analyst, Network Administrator, Software Quality Assurance Specialist, Database Administrator, IT specialist, App Developer, Programmer, Online Security Researcher, Data Feeder आदि कामहरू पाइनुका साथै आफ्नै कम्पनीको स्थापना समेत गर्न सकिन्छ। यस भन्दा माथिको पढाइलाई निरन्तरता दिएमा अझ उच्च स्तरीय काम पाउने कुरामा ढक्क हुन सकिन्छ।
३. **BCA पढिसकेपछि के-कस्ता विषयहरूमा अध्ययन गर्न पाइन्छ ?**
⇒ BCA पढिसकेपछि MCA, M.Tech, MIT, Msc. IT लगायत MBA र अरु थुप्रै विषयहरूमा Master गर्न पाइन्छ।
४. **BCA कार्यक्रम क-कसले पढ्न पाउँछन् ?**
⇒ BCA पढ्नका लागि +२ (Science, Management, Humanities, Education) वा सोसरहको तहमा कम्तीमा २ CGPA भएको हुनुपर्ने छ। साथै सबै विषयमा कम्तीमा D+ हुनुपर्ने छ। तर +२ मा ग्रेड वृद्धिका लागि सामेल भएकाहरूको हकमा प्रोविजनल रूपमा फारम भर्न पाउने छन्। भर्ना हुनुभन्दा अघि अनिवार्य रूपमा माथि उल्लेख भएअनुसारको आधार पूरा भएको हुनुपर्ने छ।