[REF]

Whitefield International College

Nayabazaar, Town Planning, Kathmandu

BCA Entrance Mock Test - II

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) belessed 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. What ……..if 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 theabove
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 thegloom
31. She undergoes a strange experience of seeing something not present in front of her. In other handsshe 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. If $\log_a ab = x, \log_b bc = y$ and $\log_c ac = z$, then, $\frac{1}{x+1} + \frac{1}{y+1} + \frac{1}{z+1}$ is
a) 0 b) 1 c) 2 d) 2

42. A number of two digit is six times the sum of its digits. If 9 is subtracted from time number the digits are reversed .The number is
a) 44 b) 54 c) 64 d) 74

43. If $\lim_{x\to 2} \frac{x^n - 2^n}{x-2} = 80$ and n is any positive integer , then n is
a) 5 b) 4 c) 3 d) none of these

44. The roots of the equation $x^2 - 8x + 16 = 0$ are
a) Real and unequal b) real and equal
c) Imaginary and unequal d) none of these

45. The value of x and y satisfying the equation $\frac{3}{x+y} + \frac{2}{x-y} = 3, \frac{2}{x+y} + \frac{3}{x-y} = 3\frac{2}{3}$ are given by
a) 1, 2 b) -1,-2 c) 1, 1/2 d) 2, 1

46. The null set is represented by
a) $\{\emptyset\}$ b) $\{0\}$ c) $\emptyset$ d) none of these

47. If (x+2) is a factor of $x^3 - 3x^2 - 4x + 12 = 0$
a) Yes b) No c) both d) none of these

48. The point of intersection between the straight lines $3x - y = 12$ *and* $3x + 2y = 6$ lie in
a) 1^{st} quadrant b) 2^{nd} quadrant c) 3^{rd} quadrant d)4^{th} quadrant

49. The lines (3, 1), (5,-5) and (-1, 13) are
a) Concurrent b) collinear c) parallel d) perpendicular

50. $2^{4n} - 1$ is divisible by
a) 15 b) 4 c) 6 d) 64

51. Sum to infinity of the series 0.4 + 0.8 + 0.16 + ……. is
a) 5 b) 10 c) 8 d) none of these

52. The sum of the cubes of the first "n" natural numbers is
a) $\frac{n(n+1)}{2}$ b)$\frac{n(n+1)(2n+1)}{6}$ c)$\left[\frac{n(n+1)}{2}\right]^2$ d) none

53. If 120 apples cost \$20, I can buy……. Apples for 50 cents
a) 1 b) 2 c) 3 d) 4

54. The average of2^{10} *and* 2^9 is
a) $2^9 + 2^8$ b) $\frac{2^{10}+2^8}{2}$ c) 4^{80} d) none

55. If 7^{th} of a month falls two days after Monday on what day will 18^{th} of the month fall?
a) Monday b) Friday c) Thursday d) Sunday

56. The value of $(\log_b a \times \log_a b \times \log_a c)^3$ is equal to
a) 3 b) 0 c) 1 d) 4

57. The geometric mean of $a^{2n} \times b^{2n}$is
a)$\frac{a^{2n}b^{2n}}{2}$ b)$a^n b^n$ c) $\frac{a^{2n}+b^{2n}}{2}$ d) $(ab)^{2n}$

58. If x and y are rational number such that $\sqrt{xy}$ is irrational number , then $\sqrt{x} + \sqrt{y}$ is
a) rational b) irrational c) both d) none of these

59. Each prime number has
a) no factor b) only on factor
c) only two factors d) more than two factor

60. The area of square whose diagonal is 10 is
a) 20 b) 30 c) 40 d) 50

61. $\lim_{x\to 0} e^{1/x}$
a) 0 b) 1 c) ∞ d) none

62. If $\frac{a}{4} = \frac{b}{5} = \frac{c}{9}$ then, $\frac{a+b+c}{c}$ is
a) 4 b) 2 c) 7 d) none of these

63. The value of x when $x\sqrt{x} = (x\sqrt{x})^x$ is
a) 1 b) 2 c) 3 d) 4

64. If $\frac{a}{b} = \frac{c}{d}$, then $\frac{a}{c} = \frac{b}{d}$ is called
a) invertendo b) alternendo
c) componendo d) componendo & dividendo

65. The lines $y + 2 = 5x$ and $5y + x = -15$ are
a)parallel b) perpendicular c) both d) none

66. The sum of prime number greater than 70 and less than 80 is
a) 220 b) 224 c) 223 d) 228

67. The diameter of the circle connects the point $(2, -3)$ and $(6,4)$ on the circle. The co- ordinates of the centre of circles is
a) $(2, 1/3)$ b) $(\frac{1}{2}, 3)$ c) $(4, ½)$ d) $(4, 4)$

68. If A= {a, b, c} then which of the following ids true?
a) $\{a\} \in A$ b) $\{a\} \subset A$ c) $a \subseteq A$ d)$\{b, d\} \subseteq A$

69. Which of the following is not an "identity law" in set operation?
a) $A \cup \emptyset = A$ b) $A \cap \emptyset = \emptyset$ c) $A \cup U = U$ d)$A \cup A = A$

70. The number of possible non-empty subsets of $A = \{a, b, c, d\}$ is
a) 32 b) 4 c) 8 d) 15

71. If f$(x) = x^2$domain $= [-1, 2]$, then range is
a) $[-1, 2]$ b) $(1, 4)$ c) $[1, 4]$ d) [1,4)

72. The domain of $f(x) = \frac{1}{x}$ in the real line is
a) $(-\infty, \infty]$ b) $(-\infty, 0] \cup (0, \infty)$ c) $[0, \infty)$ d)$(-\infty, 0) \cup (0, \infty)$

73. If it takes 20 minutes to dry one shirt how much time does it takes to dry 10 shirts?
a) 10 min b) 20 min c) 25 min d) 30 min

74. If a= $\frac{b}{c}$ and b= $\frac{a}{c}$ then, c =
a) $\frac{b}{a}$ b) $\frac{a}{b}$ c) -1 d) a

75. Inclination of straight lines represented $by\ x - 5 = 0$ is
a) 0° b) 90 ° c) ∞ d) 1

76. If A and B are sets, then $\overline{A \cup B}$ is equal to
a) $\overline{A} \cap \overline{B}$ b) $\overline{A} \cup \overline{B}$ c) A∩B d) none

77. The system of equations $2x + 3y = 6$ and $6x + 9y = 18$ have
a)Unique solution b) No solution c) Infinite solution d) none of these

78. Let $\frac{x}{y} + \frac{W}{z} = 2$, then the value of $\frac{y}{x} + \frac{z}{W}$ is
a) ½ b) $\frac{3}{4}$ c) 5 d) 2

79. Reeta ranked 37thfrom the bottom and 8th from the top. How many students are there?
a) 45 b) 92 c)55 d) none of these

80. 3^{n}-2n-1 is divided by:
a) 15 b) 4 c) 6 d) 64

81. The logarithm of 64 to base $2\sqrt{2}$
a) 2 b) 4 c) 6 d) 8

82. The monthly income of two persons are in the ratio is 4:5 and their monthly expenditure are in the ratio 7:9. If each shares is 50 per month, then their monthly income are
a) 400500 b) 400600 c) 500400 d) 600800

83. If a:b=3:4 thenthe value of (2a+3b):(3a+4b) is
a) 54:25 b) 18:25 c) 2:21 d) none of these

84. The ratio between the speeds of the two train is 7:9. If the second train runs 400km in 5hr, then the speed of first train is
a) 10 km/hr. b) 50km/hr. c) 71km/hr. d) 80km/hr.

85. The mean proportional between 12x^2 and 27y^2 is
a) 18xy b) 81xy c) 8xy d) none

86. If $A = \frac{B}{2} = \frac{C}{5}$,then A:B:C is
a) 3:5:2 b) 2:5:3 c) 1:2:5 d) none

87. The ratio 2 to ¼ is equal to ratio
a) 2 to1 b) 6 to 1 c) 8 to 1 d) 7 to 1

88. If n is a prime number greater than 3, the remainder when n^2 divided by 12 is
a)0 b) 2 c) 1 d) 4

89. If a:b=4:1 then$\frac{\sqrt{a}}{b} + \frac{\sqrt{b}}{a}$ is
a) 5/2 b) 4 c) 5 d) None of these

90. If the average of for x numbers k, 2k+3, 3k-5 and 5k+1 is 63, then the value of k is
a) 22 b) 23 c) 24 d) 25

General Knowledge (10X1=10)

91. When was Bir Hospital established?
a) Shrawan, 1947 BS b) Marga, 1974 BS
c) Shrawan, 2047 BS d) Marga, 2047 BS

92. World Population Day is celebrated in ….
a) Dec 11 b) July 11 c) March15 d) Oct 20

93. Who is the author of the novel "Ghanachakkar"?
a) Bal Krishna Sam b) Subin Bhattarai c) Sanjeev Uprety d)Chetan Bhagat

94. Which country is the largest bilateral donor of Nepal?
a) China b) Japan c) India d) America

95. Who is the first lady driver of Nepal?
a) Manchura Devi b) Shantishree Sharma
c) Vidya Devi d) Prem Kumari Waiba

96. "People are lonely because they build wall instead of bridge",Who said this?
a) Abharam Linclon b) Carlyle c) Livy d)Joseph Neuton

97. Which bird can see the sun directly by its naked eye?
a) Crow b) Kiwi c)Eagle d)Vulture

98. "Blue Chips" is related to?
a) Share market b) Computers c) Vehicles d)Human body

99. What is the full form of CNN?
a) Connection News Network b) Cable Nepal Network
c) Connection New Nepal d) Cable News Network

100. Which is the longest district of Nepal?
a) Dhading b) Humla c)Jhapa d)Chitwan

---Best of Luck---