Verbal Ability[25 X 1=25]

Directions: Fill up the blanks with the words, which best fits in.

1. **……. her work was not finished, she was given permission to leave.**
   a)although   b)in spite of
   c)as if   d) despite

2. **Ramesh is … sociable and disciplined.**
   a)Both   b)as well as
   c) not only   d) but also

3. **She told me she … throughout town in the few weeks.**
   a)will be passing   b) will pass
   c) might be passing   d) may be passing

4. **More than one hundred people …. to meeting.**
   a)have come   b) has come
   c) is coming   d) was coming

5. **Miss Khadka speaks both Hindi … English very fluently.**
   a)as well as   b) as also
   c) and   d) with

(Directions: Select the most suitable preposition in the following sentences.)

6. **What time did they arrive … the hotel?**
   a)in   b)to
   c) at   d) into

7. **You are not allowed to write … pencil**
   a)with   b) at
   c) on   d) in

8. **I'll be working … 11:30**
   a)until   b) at
   c)by   d)on

9. **Are you … the Jury?**
   a)in   b) at
   c) on   d) with

10. **They came … a long gap.**
    a)in   b) after
    c) on   d) for

Directions: Choose the littered expression that most nearly expresses the meaning of the given idioms or phrases

11. **Chicken hearted**
    a)weak   b) kind
    c) bold   d) cowardly

12. **Like a cog of the wheel**
    a)a technician   b) the least paid employee
    c) an important person   d) an unimportant person

13. **To sail close to the wind**
    a)to take risk   b)work hard
    c) earn enough   d) control affairs

14. **Make both ends meet**
    a)manage the business   b) work hard
    c) earn enough   d) control affairs

15. **Show white feathers**
    a)show betrayal   b) show cowardice
    c) be ashamed   d) deception

16. **Which of the following is passive voice?**

a)He may help me the task   b)He is known
c)Someone stole my purse   d)who has created this news

17. She said to me Do you like coffee.

a)We used me you liked coffee   b) he asked me if I liked coffee

c)he asked me if you liked coffee   d) he told me if I liked coffee

18. Rara lake is Nepals……………………….

a)biggest lake   b)the biggest lake

c)the big lake   d)a bigger lake

19. The Monalisa is a portrait of a woman with a very enticing.

a)oblivious   b)uminous

c)alluring   d) elusive

20. Tick the right spelling?

a)cassette,   b) cassette,

c)casette,   d)casset

21. The man come………….a car?

a)on   b)in
c)by   d)from

22. He is…………….to extend all help.

a)willful   b)wiling,

c)willing   d)willed

23. The plural of "father in law" is ………

a)father in law   b)fathers in law
c) fathers in laws   d)none

24. That tree…………….in the next storm.

a)fall   b) will fall
c) will have fallen   d) was falling

25. Prem……………….us daily in the past.

a)was helping ,   b) had helped,
c) helped   d)has been helping

Mathematics [20 X 1=20]

26. What is the cardinality of the power set of the set {0,1,2} ?
a) 8   b) 6   c) 7   d) 9

27. The value of $log_a a$ is:

a) 1   b) 2   c) 0   d) a

28. The value of $27^{\frac{2}{3}} - 16^{\frac{-3}{4}}$ is:

a)$\frac{8}{71}$ b) $\frac{71}{8}$ c) $\frac{81}{8}$ d) $\frac{71}{88}$

29. How many numbers of 4 different digits can be formed out of the integers 1,2,3,4,5,6 ?

a) 360   b) 200   c) 150   d) 120

30. In what time will the interest on a sum of money at $13\frac{1}{3}\%$ be $\frac{1}{3}$ of the principal ?

a) 4.5 yrs   b) 3.5yrs   c) 2.5yrs   d) 1.5yrs

31. If $a^3 - 7a^2 + a = 0$, then the value of $a + \frac{1}{a}$ is

a)3   b)5   c)7   d)9

32. If A and B be any two matrices, then which of the following is true ?

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

33. The slope of the straight line $mx - y + c = 0$ is

a) 1   b) m   c) -m   d) mc

34. If $a: b$ = 2: 3 then the duplicate ratio of $a: b$ is:

a) 4: 6   b) 6: 9   c) 4: 9   d) 4: 5

35. Two coins are tossed simultaneously. Find the probability that the coins show one head and one tail.

a)$\frac{1}{3}$ b)$\frac{1}{2}$ c)$\frac{1}{4}$ d) 1

36. HCF of $x^2 + 5x + 6$ and $x^2 - x - 6$ is:

a) $x + 2$ b) $x + 3$ c) $(x^2 - 4)(x + 3)$ d) $(x + 3)^2$

37. The solution set of $|x| = 1$ is:

a) {1}   b) {−1}   c) {−1,1}   d) ф

38. If the observations are 10 and -10 then their geometric mean is:

a) 10   b) -10   c) 0   d) none

39. The value of $\int logxdx$ is:

a) $logx$ + C   b) $(logx - 1)$ + C   c) $log\,x - x$ + C   d) $logx - 1$ + C

40. The differential coefficient of $(ax^2 + b)^2$ is:

a) $6(ax^2 + b)^2$ b) $6ax(ax^2 + b)^3$ c) $6ax(ax^2 + b)^2$ d) $6ax(ax^2 + b)^4$

41. The value of the $\displaystyle \lim_{x \to 2} \frac{x^5 - 32}{x^4 - 16}$ is:

a) 5   b)$\frac{5}{2}$ c) $\frac{10}{3}$ d) 0

42. If an article bought at Rs. 16, is sold Rs. 12, find % loss in SP.

a) 25%   b) 30%   c) $33\frac{1}{3}\%$ d) 40%

43. A,B and C had invested Rs. 3000 , Rs. 4000 and Rs. 5000 respectively in the business. If the total profit was Rs. 3000, then the share of profit of B is

a) Rs.1000   b) Rs.750   c) Rs.1250   d) Rs.1150

44. $x^2 - y^2 + 2y - 1$ is equal to:

a) $(x - y)(x + y)$ b) $(x^2 - y^2)(2y - 1)$ c) $(x + y - 1)(x - y + 1)$ d) None

45. The number of selections of 1 student out of 40 students are:

a) 1   b) 10   c) 30   d) 40

Computer Science [20 X 1=20]

46. LAN stands for:

a) Large Area network

b) Local Area Network

c) Long Area Network

d) None of these

47. AI stands for:

a) Artificial Intelligence

b) Artificial Instant

c) Archaeological Intelligent

d) None of these

48. Microsoft Office package includes:

a) Word, excel, PowerPoint and ms access

b) word and excel only

b) excel and PowerPoint only

d) none of these

49. Which is the fastest memory in computer?

a) Cache memory

b) RAM

c) Register

d) DRAM

50. Which of these is an operating system?

a)Microsoft Word

b)UNIX

c)Adobe Photoshop

c)Canva

51. What is the main function of RAM in a computer?

a) Store data permanently

b) Store data temporarily for quick access

c)Manage network connections

d) Execute input commands

52. Which programming language is known as the mother of all languages?

a)Java

b)Python

c)C

d)Assembly

53. In database management systems, what does SQL stand for?

a) Structured Query Language

b) Simple Query Language

c) Standard Query Language

d) Secure Query Language

54. Which of the following is not a type of software?

a) System Software

b) Application Software

b) Network Software

d) Database Software

55. What does URL stand for?

a) Uniform Resource Locator

b) Universal Resource Locator

c) Uniform Reference Locator

d) Universal Reference Locator

56. Which device is used to connect a computer to a network?

a) Modem

b) Printer

b)Scanner

d)Speaker

57. What is the primary purpose of an antivirus program?

a) To manage network connections

b) To enhance system performance

b) To detect and remove malicious software

d) To edit documents

58. Which of these is a cloud storage service?

a) Dropbox   b) Microsoft Office

c) Adobe Illustrator   d) Notepad

59. What does GUI stand for in computing?

a) Graphical User Interface
b) General User Interface
c) Graphical Unified Interface
d) General Unified Interface

60. What is the primary function of the 'Save As' command?

a) To create a new document
b) to save a file with a new name or format
c) To print a document
d) To delete a file

61. What is the main purpose of a web browser?

a) To manage files on a computer
b) To access and display web pages
c) To edit graphics and images
d) To run software applications

62. Which of the following is a type of malware?

a) Spreadsheet   b) Firewall
b) Virus   d) Browser

63. What does the acronym BIOS stand for?

a) Basic Integrated Operating System
b) Basic Input/Output System
c) Binary Input/Output System
d) Basic Internal Operating System

64. Which type of software is designed to detect and remove spyware?

a)Antivirus   b)Antimalware   c)Firewall   d)System Cleaner

65. Which of the following is a characteristic of open-source software?

a) Paid licensing fees
b) Closed source code
c) Free and modifiable source code
d) Proprietary software with limited access

Logical Reasoning [20 X 1=20]

66. What are the three numbers whose sum of addition and multiplication is the same?
a) 0, 2, 3   b) 1, 3, 5   c) 1, 2, 3   d) 4, 5,6

67. Find out what should come in place of the question mark (?) in the following number series: 3, 4, 7, 8, 11, 12 ?
a) 7   b) 10   c) 14   d) 15

68. Find out such a number which is the same when 75 is added to the 75 %of the number?
a) 100   c) 200   b) 300   d) 400

69. A is son of B, B is mother of C and C is the daughter of D; what is D to A.
a) father   b) son   c) mother   d) daughter

70. Find out the word which is different from the other three words.
a) hair   b) wool   c) feathers   d) grass

71. 'Don't take sugar because you have diabetes' logically similar to:
a) Don't read as you have weak eyesight
b) Don't play as you are hurt
c) Don't sing as you have hoarse throat
d) Don't speak as you are not asked to speak

72. "Work hard to earn money" is logically similar to:
a) do not cheat to make profits
b) buy lotteries
c) invest to amass wealth
d) study to pass in distinction

73. If the day after tomorrow is Friday; what day was it yesterday?
a) Tuesday   b) Thursday   c) Wednesday   d) Monday

74. If DEFY is coded as 40, what should be the code for TRAP?
a) 45   b) 55   c) 35   d) 65

75. 50. In code language if GOOD MORNING is written as 11, GOOD AFTERNOON as 13 what is written for GOOD NIGHT?
a) 9   b) 10   c) 11   d) 12

76. What number should replace the question mark (?) in the series: 5, 10, 20, 40, ?
a)60   b)70   c)80   d)90

77. What are the three numbers that add up to 15 and multiply to 56?
a) 2, 4, 9   b) 3, 5, 7   c) 1, 6, 8   d) 2, 5, 8

78. Find the missing number in the sequence: 1, 4, 9, 16, ?, 36
a)20   c)24   c)25   d)30

79. If all roses are flowers and some flowers fade quickly, which of the following must be true?
a)   All roses fade quickly.
b)   Some roses fade quickly.
c)   No roses fade quickly.
d)   Some flowers are not roses.

80. If you rearrange the letters in "REACT," which of the following words can you form?
a) TRACE   b) CRETE   c) CRATE   d) A and C

81. In a certain code, "ROSE" is written as "TQUG." How is "BARK" written in that code?
a) CDPL   b) CBPL   c) CDQJ   d) CBLQ

82. A man is looking at a picture of someone. His friend asks who it is, and the man replies, "Brothers and sisters, I have none. But that man in the picture is my father's son's son." Who is the person in the picture?
a) The man himself   b) His son   c) His father   d) His cousin

83. A clock shows the time as 3:15. What is the angle between the hour and minute hands?
a) 30 degrees   b) 37.5 degrees   c) 45 degrees   d) 75 degrees

84. If all cats are mammals and some mammals are not dogs, which of the following statements is true?
a)   Some cats are not dogs.
b)   No cats are dogs.
c)   All mammals are cats.
d)   Some cats are dogs.

85. If the day before yesterday was Friday, what day will it be three days after tomorrow?
a) Monday   b) Tuesday   c) Wednesday   d) Thursday

General Knowledge [15 X 1=15]

86. Which text was awarded with 'Madan Puruskar 2075' ?
a) Khalangama Hamala   b) Aina   c) Seto Dharti   d) Ranahar

87. Who was the winner of ICC world cup cricket 2019?
a) Australia   b) India   c) New Zealand   d) England

88. Which is the international sports competition that is held only in Nepal?
 a) Hatti polo   b) Dandi-biyo   c) Kabaddi   d) Mountain race
89. Who is the first player to get chance to play in IPL cricket ?
 a) Sndeep Lamichane   b) Sakti Gauchan   c) Paras Khadka   d) Gyanendra Malla
90. Who is the winner of 2019 Wimbledon Men's tennis single?
 a) Novak Djokovic   b) Roger Federer   c) Rafael Nadal   d) Robert Farah
91. Which robot received Citizenship first time in the World?
 a) Sofia   b) ASIMO   c) Pepper   d) Neo
92. Which is the Tallest waterfall of Nepal?
 a) Rupse   b) Namaste jharna   c) Jalbire   d) Pachal Jharna
93. Where is The apple capital of Nepal?
 a) Dolpa   b) Marpha Mustang   c) lumle Kaski   d) Manag
94. Who is the Nepali lady to receive Howard Hero-2019 award?
 a) Sangina Baidhya   b) Anuradha koirala   c) Puspa Thapa   d) Santoshi Basnet
95. What is Biggest International Financial institute?
 a) World Bank   b) IMF   c) IFC   d) ADB
96. When UNO was established?
 a) 24 October 1945   b) 20 October 1944   c) 12 Jun 1946   d) 7 march 1943
97. When was Motihari-Amlekhjung petroleum pipeline lunched?
 a) 2076 Bhadar 19   b) 2076 Bhadra 22   c) 2076 Bhadra 3   d) 2076 Bhadra 24
98. 62. Which bank in Nepal first introduced ATM ?
 a) Kumari Bank
 b) Bank of Kathmandu
 c) Himalayan Bank
 d) Standard Charted bank
99. Who is called the father of electricity?
 a) Michael Faraday   b) Elbert Einstein   c) Right brothers   d)Gram bell
100.   When Nepal was credited for One day International cricket?
 a) 2017 Jun 12   b) 2018 March 15   c) 2019 Apr 1   d) 2018 jan 2

Answer Key

1. a	2.c	3.c	4.a	5.c	6.c	7.d	8.a	9.c	10.b	11.d	12.d	13.a	14.c	15.b	16.b	17.b	18.b	19.c	20.a
21.b	22.c	23.b	24.b	25.c	26.a	27.a	28.c	29.a	30.a	31.c	32.c	33.b	34.c	35.b	36.a	37.c	38.d	39.c	40.c
41.a	42.b	43.a	44.d	45.a	46.d	47.b	48.a	49.b	50.a	51.b	52.a	53.a	54.c	55.b	56.b	57.c	58.a	59.b	60.a
61.a	62.b	63.a	64.a	65.b	66.c	67.c	68.c	69.a	70.d	71.c	72.d	73.c	74.b	75.c	76.c	77.d	78.c	79.d	80.d
81.a	82.b	83.b	84.a	85.d	86.d	87.d	88.d	89.a	90.a	91.a	92.b	93.b	94.c	95.a	96.a	97.b	98.c	99.a	100.b