

CTEVT 2076 (Scholarship)

English

1. We are going to organize.....one-day cricket match in our municipality.

- a. a b. an c. the d. no article

2. Don't be silly. ?

- a. do you b. will you c. don't you d. isn't it

3. We had to postpone the meeting the bandha called in our city.

- a. because b. because of c. although d. in spite of

4. Why don't you...your house painted? It looks ugly.

- a. make b. do c. get d. let

5. Can you tell me ?

- a. what time is it b. what was the time
c. what the time is d. what's the time

6. My sister is only five but she. ...already read very well.

- a. should b. must c. can d. may

7. There arehouses here than in Kathmandu.

- a. less b. fewer c. many d. some

8. I'd like to change Rs.500.....US dollar.

- a. into b. for c. by d. from

9. You always forbid me.....

- a. to not run b. do not run c. to not to run d. to run

10. The phoneCan you answer it, please?

- a. rings b. rang c. has rung d. is ringing

11. She said that she. to America.

- a. has been b. had gone c. had been d. went

12..... had he got home than it started raining.

- a. When b. As soon as c. While d. No sooner

13. You are my best friendI am telling you the secret.

- a. because b. in order to c. therefore d. so that

14. We must discuss ... the matter really well.

- a. about b. no preposition c. on d. of

15. The shirt I am wearing was put on a at the supermarket.

- a. sale b. sell c. sail d. cell

16. No one will tell what is need for you.....

- a. . b. ? c. ! d. :

17. Which of the following words is correctly spelled?

- a. jackle b. jackel c. jackal d. jakal

18. Your..... is really appreciable.

- a. intelligent b. intelligence c. intellectual d. intelligency

19. The council is planning to.....all the old houses in this locality.

- a. pull up b. pull back c. pull down d. pull in

20. was the weather like when you were in London?

- a. What b. How c. How rainy d. How cold

Science

21. Nature of the image formed by convex mirror is.....

- a. Real, inverted, Diminished b. Real, inverted, enlarged
c. Virtual, erect, diminished d. Virtual, erect, enlarged.

22. Which of the following is a vector quantity?

- a. Mass b. Pressure c. Force d. Distance

- 23. Which of the following Expression represents Ohm's law?**
 a. $I \propto 1/v$ b. $F = ma$ c. $w = fxd$ d. $v \propto L$
- 24. Which device is used to measure the density of water?**
 a. Lactometer b. Barometer c. Hydrometer d. Voltmeter
- 25. What is the freezing point of Alcohol thermometer?**
 a. -115°C b. -125°C c. -135°C d. -105°C
- 26. The S.I. unit of potential difference is:**
 a. Volt b. Newton c. Watt d. Ampere
- 27. The total resistance when three resistance 2Ω , 4Ω , 5Ω are connected in series is.....**
 a. 12Ω b. 11Ω c. 13Ω d. 15Ω
- 28. What is the S.I unit of magnetic field strength?**
 a. Tesla b. Voltage c. Ohm d. Ampere
- 29. Which device is used to test the current flowing or not in the conductor?**
 a. Ammeter b. Voltmeter
 c. Galvano meter d. Battery
- 30. The frequency of power supply used in Nepal is**
 a. 70 Hz b. 50 Hz c. 60 Hz d. 220 Hz
- 31. How many numbers of valence electron present in the Inert gas?**
 a. 4 or 8 b. 2 or 8 c. 2 or 10 d. 2 or 6
- 32. Which of the following is not Acid?**
 a. HCl b. HBr c. H_2CO_3 d. NaCl
- 33. What is glass?**
 a. Liquid b. Vapour
 c. Solid d. Super cooled liquid
- 34. At what temperature, Evaporation of water takes place?**
 a. At its Boiling point b. At all temperatures
 c. At its freezing point d. At a fixed temperature.
- 35. Which one is the lightest metal?**
 a. Lithium b. Sodium c. Potassium d. Magnesium
- 36. Which metal is found freely in nature?**
 a. Gold b. Copper c. Sodium d. Magnesium
- 37. Where is Gene found?**
 a. DNA b. Mitochondria c. Chloroplast d. All of them
- 38. Malaria is caused by**
 a. Mosquito b. Housefly c. Paramecium d. Plasmodium
- 39. Virus contains**
 a. DNA only b. RNA only
 c. DNA and RNA d. DNA or RNA
- 40. Blood is blue color in**
 a. Protozoa b. Annelida
 c. Mollusca d. Echinodermata

Maths

- 41. If $2\sec 2\alpha = \tan \beta + \cot \beta$, then value of $(\alpha + \beta) =$**
 a) $\frac{\pi}{2}$ b) $\frac{\pi}{3}$ c) $\frac{\pi}{4}$ d) $\frac{\pi}{6}$
- 42. If $(A + B) = \frac{\pi}{4}$, then $(\cot A - 1)(\cot B - 1) =$**
 a) 1 b) 12 c) 2 d) -1
- 43. In ΔABC , if $2\cos A = \frac{\sin C}{\sin B}$, then the Δ is:**
 a) Right angled triangle b) Equilateral triangle
 c) Isosceles triangle d) Scalene triangle

- 44. The number of non-empty proper subsets of set $A = \{1, 2, 3, 4\}$ is:** a) 16 b) 14 c) 15 d) 13
- 45. If $f(x + 1) = x + 2$, then $f(x - 1) =$**
 a) 2 b) x c) x + 1 d) x - 1
- 46. For any two square matrices A and B, which of the following is not true?**
 a. $(A + B)^T = A^T + B^T$ b. $(AB)^T = B^T A^T$
 c. $A(B + C) = AB + AC$ d. $(A - B)^T = B^T - A^T$
- 47. If $AB = C$, then the order of matrices A, B and C are:**
 a) $A_{2 \times 3}, B_{2 \times 3}, C_{2 \times 3}$ b) $A_{3 \times 2}, B_{2 \times 3}, C_{3 \times 2}$
 c) $A_{3 \times 3}, B_{3 \times 3}, C_{3 \times 2}$ d) $A_{3 \times 2}, B_{2 \times 3}, C_{3 \times 3}$
- 48. If $\frac{1}{q+r}, \frac{1}{r+p}, \frac{1}{p+q}$ are in AP, then:**
 a) p^2, q^2, r^2 are in AP b) p, q, r are in GP
 c) p^2, q^2, r^2 are in GP d) p^2, q^2, r^2 are in HP
- 49. If m^{th} term of an AP is n and n^{th} term is m, then r^{th} term is:**
 a) $m - n - r$ b) $m + n - r$
 c) $m - n + r$ d) $n - r - m$
- 50. If α and β are roots of the equation $x^2 - cx + (c + 1) = 0$ then $(1 + \alpha)(1 + \beta) =$**
 a) 1 + p b) 1 - p
 c) 1 + c d) 1 - c
- 51. If 7 is added to the square of a natural number then the result is 43, What is the number?**
 a. $\sqrt{50}$ b. ± 7 c. ± 6 d. 6
- 52. The length of three sides of a triangle are x cm, y cm, and z cm respectively, what is the area of the triangle?**
 a. $xyz \text{ cm}^2$ b. $\frac{1}{2} xyz \text{ cm}^2$
 c. $\sqrt{(s(s-x)(s-y)(s-z))} \text{ cm}^2$ d. $\frac{1}{2} xy \text{ cm}^2$
- 53. If set $A = \{a, b, e, f\}$ and set $B = \{b, e, g, a\}$, what is $n(B - A)$?**
 a. 1 b. 2 c. 4 d. 6
- 54. If $x + y + z = 0$, then $x^2 + y^2 + z^2$ is equal to**
 a. xyz b. $2xyz$
 c. $3xyz$ d. $4xyz$
- 55. In a two digits' number, the sum of the digits is 7 and difference is 3. What will be the digit of ten's place?**
 a. 2 b. 4 c. 5 d. 7
- 56. The values of the variable x in a quadratic equation are 2 and 3, what will be the quadratic equation?**
 a. $x^2 - x - 6$ b. $x^2 - 2x + 6$
 c. $x^2 - 5x + 6$ d. $x^2 - 5x - 6$
- 57. The mean weight of 150 students is 60 Kg. The mean weight of boys is 70 Kg and that of girl is 55 Kg. The number of girls is:**
 a) 50 b) 150 c) 25 d) 100
- 58. What is the probability of getting a number divisible by 2 or a cube number when a fair die is thrown?**
 a. $\frac{1}{3}$ b. $\frac{1}{2}$ c. $\frac{2}{3}$ d. $\frac{1}{6}$
- 59. What is the H.C.F. of relative prime numbers a, b and c?**
 a. bc b. abc c. ac d. 1
- 60. What is the order of the surd $\sqrt[3]{3x}$?**
 a. 1 b. 2 c. 3 d. 0

**ANSWER
SHEET**

1. A	2. B	3. B	4. C
5. C	6. C	7. B	8. A
9. D	10. D	11. C	12. D
13. C	14. B	15. A	16. A
17. C	18. B	19. C	20. A
21. C	22. C	23. A	24. C
25. A	26. A	27. B	28. C
29. C	30. B	31. B	32. D
33. D	34. B	35. A	36. A
37. D	38. D	39. D	40. C
41. C	42. C	43. C	44. B
45. B	46. D	47. D	48. A
49. B	50. D	51. D	52. C
53. A	54. C	55. C	56. C
57. D	58. C	59. D	60. B

