

taleNT2025 Examination

Std : 9th
Set Code: A

Marks: 160
Duration: 60 Min

General Instructions

Read instruction carefully and strictly follow them:

1. There are Total 40 Multiple Choice Pattern Questions.
2. There is negative marking system for wrong answers.
3. Marking System: +4 for Correct, -1 for Wrong and 0 for Not Attempted
4. Fill the bubbles carefully with ball(blue/black) pen on the OMR sheet.

- Q.1. The α -particle scattering experiment of Rutherford concluded that
- a) The nucleus is made up of protons and neutrons
 - b) The number of electrons is exactly equal to number of protons in atom
 - c) The positive charge of the atom is concentrated in a very small space
 - d) Electrons occupy discrete energy levels
- Q.2. In a plant cell, cytokinesis occurs by
- a) Separation of the cytoplasm from the periphery to central region
 - b) Separation of the cytoplasm from cell centre to its periphery
 - c) Separation of the cytoplasm throughout the equatorial plane simultaneously
 - d) Furrowing of cytoplasm from two sides at right angles to the plane of spindle pole
- Q.3. Select the correct statement regarding the Schwann cells
- a) Surround axon of myelinated nerve fibre
 - b) Support muscle fibres
 - c) Found in Haversian system of bones
 - d) Form basement membrane of epithelium.
- Q.4. A body moving with constant acceleration covers 24 m in the 4th second and 36m in the 6th second. The initial velocity of the body is
- a) 12ms⁻¹
 - b) 3ms⁻¹
 - c) 4ms⁻¹
 - d) 5ms⁻¹
- Q.5. At the start of the free-fall of an object from height , the potential energy is _____ and kinetic energy is _____.
- a) Zero, mgh
 - b) mgh, infinite
 - c) Infinite, mgh
 - d) mgh, zero
- Q.6. Ingredients of atmosphere present in minute quantities but essential for maintaining life on earth are
- a) Ozone and oxygen
 - b) Ozone and CO₂
 - c) Carbon dioxide and water
 - d) CO₂, ozone and water vapours
- Q.7. Some medicines are given in the form of capsules. The capsules are made of
- a) Paper
 - b) Gelatinous material
 - c) Embryonic tissue
 - d) Starch
- Q.8. A labourer earned Rs 2100 by working for 30 days. How many days should he work to earn Rs 630?
- a) 09
 - b) 15
 - c) 10
 - d) 11

- Q.9. Which of the following is a correct statement?
- The inter-particle force of attraction between the molecules in a liquid is less when compared to solids.
 - The inter-particle force of attraction between the molecules in a liquid is more when compared to solids.
 - The inter-particle force of attraction between the molecules in a liquid is either more or less when compared to solids.
 - There is no inter-particle force of attraction between the molecules in a liquid
- Q.10. If $\left(\frac{1}{x} - 2x\right) = 7$ then $\left(\frac{1}{x^2} + 4x^2\right) = ?$
- 45
 - 47
 - 53
 - 54
- Q.11. If the multiplicative inverse of $(a + b)$ is $-\frac{1}{12}$ whereas $a = -5$, then $b = ?$
- 3
 - 7
 - 12
 - 7
- Q.12. If a book costs $\left(2x + \frac{3}{2}\right)$ rupees, What will be the cost of $\left(2x - \frac{3}{2}\right)$ books?
- Rs $\left(4x^2 + 6x + \frac{9}{4}\right)$
 - Rs $\left(4x^2 + \frac{9}{4}\right)$
 - Rs $\left(4x^2 - 6x + \frac{9}{4}\right)$
 - Rs $\left(4x^2 - \frac{9}{4}\right)$
- Q.13. The average of five consecutive odd numbers is 61. What is the difference between the highest and lowest numbers ?
- 2
 - 5
 - 8
 - 10
- Q.14. If A earns 25% more than B, by what percent does B earn less than A.
- 14%
 - 20%
 - 50%
 - 10%
- Q.15. If $\frac{5 + 2\sqrt{3}}{7 + 4\sqrt{3}} = a + b\sqrt{3}$, then
- $a = -11, b = -6$
 - $a = -11, b = 6$
 - $a = 11, b = -6$
 - $a = 6, b = 11$
- Q.16. Three-fifth of the square of a certain number is 126.15. What is the number?
- 14.5
 - 75.69
 - 145
 - 210.25
- Q.17. The present system is _____ and needs _____.
- good, no change
 - Adequate, betterment
 - Wrong, improve
 - Study, detailed
- Q.18. Phrase Replacement
Prof. Raina is planning to settle in Pune when he will retire.
- Would retire
 - Retires
 - Should retire
 - No improvement
- Q.19. What figure of speech is used when contradictory terms are combined to create an effect ?
- Oxymoron
 - Alliteration
 - Paradox
 - Onomatopoeia

Q.30. Which of the following should come in place of question mark in the series given below?

△ ● □ ● △ □ ● △ ?

a) ●

b) △

c) □

d) ● □

Q.31. In a certain code, the word 'LAW' is written as 'WLA' then how the word 'MAN' is written in that code?

a) NMA

b) NAM

c) MNA

d) ANM

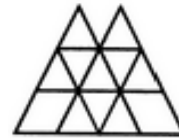
Q.32. Count the number of parallelogram in the given figure.

a) 23

b) 22

c) 21

d) 18



Q.33. How many official languages does India have?

a) 29

b) 27

c) 12

d) 22

Q.34. Antyodaya Diwas is celebrated to raise awareness about which social issue?

a) Poverty

b) Illiteracy

c) Inflation

d) Communism

Q.35. Which exam do you need to appear for to become a doctor in India?

a) IIT-JEE

b) NEET-UG

c) CAT

d) GRE

Q.36. Rudyard Kipling's "The Jungle Book" is based on which national park?

a) Kanha National Park

b) Pench National Park

c) Sariska National Park

d) Sundarbans

Q.37. Which gas is responsible for the ozone layer depletion in the Earth's atmosphere?

a) Oxygen

b) Carbon dioxide

c) Chlorofluorocarbons (CFCs)

d) Nitrogen

Q.38. Who wrote "The Diary of a Young Girl"?

a) Helen Keller

b) Anne Frank

c) Malala Yousafzai

d) Marie Curie

Q.39. What does CUET stand for?

a) Central Universities Entrance Test

b) Common Universities Entrance Test

c) Combined Universities Entrance Test

d) Central Unified Entrance Test

Q.40. Which exam do you need to appear for to become a Chartered Accountant in India?

a) CS Foundation

b) CMA Foundation

c) CA Foundation

d) ICWA Foundation