9TH

TALENT SEARCH TEST-2024

By "WE ARE HERE"



Important Instructions:

- 1. The test is of 1 hour 40 minutes duration and the Test Booklet contains 100 multiple-choice questions (four options with a single correct answer) from Mathematics, Science and General Knowledge.
- 2. Each Question carries 4 marks. For each correct response, the candidate will get 4 marks. For each incorrect response, one mark will be deducted from the total scores. The maximum marks are 400.
- 3. Use Blue/Black Ball Point Pen only for marking responses on Answer Sheet.
- 4. Rough work is to be done in the space provided for this purpose in the Test Booklet only.
- 5. On completion of the test, the candidate **must hand over the Answer Sheet to the Invigilator** before leaving the Room/Hall. The candidates are allowed to take away this Test Booklet with them.
- The candidates should ensure that the Answer Sheet is not folded. Do not make any stray marks on the Answer Sheet. Do not write your Roll No. anywhere else except in the specified space in the Answer Sheet.
- 7. Use of white fluid for correction is **NOT** permissible on the Answer Sheet.
- 8. The candidates should not leave the Examination Hall without handing over their Answer Sheet to the Invigilator on duty.
- 9. Use of Electronic/Manual calculator is prohibited.
- 10. Use of any unfair means shall amount to disqualification.

Note:-

c) Shivalik Range

5. Which is the largest freshwater lake in

India, located in Kashmir?

For Official Answer Keys & Result, do visit our website: wearehere.org.in

| Name of the Candidate: | | | | |
|--|-----------------------|----------------------------------|-------------------------|--|
| Roll Number : | | _ Candidate's Signature : | | |
| SECTION A (C | <u>G.K)</u> | a) Dal Lake | b) Wular Lake | |
| | | c) Mansar Lake | d) Pangong Lake | |
| l. Who was the first Maha | raja of Jammu & | | | |
| Kashmir? | | 6. Which of the following | g correctly arranges | |
| a) Hari Singh | b) Gulab Singh | | Cashmir region in order | |
| c) Ranbir Singh | | of their population, populated? | from most to least | |
| 2. Which significant event in the history of J&K | | a) Srinagar > Budgam > Baramulla | | |
| occurred in 1947? | 3 | b) Baramulla > Budg | | |
| | b) Accession to India | c) Budgam > Srinaga | · · | |
| c) First War of Independence | | d) Srinagar > Baramulla > Budgam | | |
| d) Shimla Agreement | | 7. The famous Amarnat | th Cave Temple is | |
| 3. Which dynasty is known for its rule over | | dedicated to which I | - | |
| Kashmir during the m | | | b) Shiva | |
| a) Mughal Dynasty | - | c) Ganesh | | |
| c) Abdullah Dynasty | , , | , | , 8 | |
| , , | , 1 3 3 | 8. Which of the following | g is not a tributary of | |
| 4. Which mountain range separates Kashmir | | the Jhelum River? | v | |
| Valley from Ladakh? | - | a) Lidder | b) Sindh | |
| a) nirnanial Range | h) Zanskar Range | , | d) Pohru | |

d) Karakoram Range

9. Who was the first female Chief Minister of

Jammu and Kashmir?

| a) Sonia Gandhi | b) Mehbooba Mutti | Column I | Column 2 |
|-----------------------------|-------------------------------|---------------------------------------|-----------------------------|
| c) Indira Gandhi | d) Sakeena Itoo | (Religious Sites): | (Characteristics): |
| 10. Match the following fa | mous personalities | 1. Jamia Masjid Nowhatta | A) Sufi shrine with |
| with their respective r | oles: | | intricate carvings |
| Column I: | Column II: | 2. Imam Bargah | B) Famous for its |
| I. Poet | A. Ghulam Nabi Azad | | itiful wooden architecture |
| II. Former Chief Minister | B. Manoj Sinha | 3.Shankaracharya Temple | C) Located on a hilltop, |
| III. Lieutenant Governor | C. Mehjoor | 3.Shankarachar ya Tempre | ancient site |
| IV. Renowned Sufi Saint | D. Sheikh Noor-ud-din Wali | 4.Khaqah-e-Moula | D) Sacred site for Shia |
| | | 4.Kiiaqaii-C-iviouia | Muslims |
| a) I - D, II - A, III - C, | | | Musillis |
| b) I - C, II - A, III - B, | | a) 1-A, 2-B, 3-C, 4-1 | D |
| c) I - A, II - D, III - B, | | | |
| d) I - B, II - C, III - D, | IV - A | b) 1-B, 2-D, 3-C, 4- | |
| | | c) 1-C, 2-D, 3-B, 4- | |
| 11. Who wrote the famous | | d) 1-D, 2-A, 3-B, 4- | C |
| firdaus bar roo-e zam | | 10 5 135 1 1 1 | |
| hameen ast-o hameen | ast". for kashmir? | 19. Pari Mahal, the famou | |
| a) Rumi | b) Omar Khayyam | | , is also known as which of |
| c) Amir Khusrau | d) Mirza Ghalib | the following? | |
| ŕ | , | a) Palace of Dreams | b) Palace of Gardens |
| 12. Who is the current Me | mber of Parliament for the | c) Palace of Fairies | d) Palace of Kings |
| Srinagar parliamenta | ry constituency? | | |
| | b) Agha Syed Ruhullah Mehdi | 20. Which fort is located on | Koh-e-Maran Hill in J&K |
| c) Engineer Rashid | d) Mia Altaf | a) Hari Parbat Fort | b) Bahu Fort |
| , 8 | , | c) Akhnoor fort | d) None of these |
| 13. Which scheme in J&K | specifically focuses on | , | , |
| providing free educati | | 21. What can individuals | do to help reduce |
| children? | on to under privileged | | in Jammu and Kashmir? |
| a) Beti Bachao Beti Pac | lhao | a) Use More Non-ren | |
| b) Sarva Shiksha Abhiy | | b) Increase Plastic Us | |
| | | c) Promote Industrial | |
| c) Pradhan Mantri Awa | | · · · · · · · · · · · · · · · · · · · | - |
| d) Swachh Bharat Abhi | yan | d) Reduce, Reuse, Re | ecycle |
| 14 Havy many total aggress | hly agustitus union aug thaus | 22. Which of the followin | a software is commonly |
| | bly constituencies are there | used to create present | |
| | ir after it became a Union | _ | |
| Territory? | | a) Microsoft Excel | |
| a) 90 b) 8 | c) 94 d) 82 | c) Microsoft PowerPo | oint d) Microsoft Access |
| 15 Which forting a labor | 4. 1 | 23 Metab the following o | omputer components with |
| 15. Which festival, celebra | v . | their functions: | omputer components with |
| | including Kashmir, marks | | Column B: |
| | and the beginning of spring? | | |
| a) Baisakhi | b) Navroz | 1.Keyboard | A. Stores data permanently |
| c) mehregan | d) Lohri | 2.Hard Disk | B. Input device |
| | | 3.CPU | C. Executes instructions |
| 16. What is the traditional | | | and processes data |
| known for its intricate | e patterns and warmth | 4. RAM | D. Temporary storage |
| called? | | a) 1-A, 2-C, 3-B, 4-D | b) 1-B, 2-D, 3-A, 4-C |
| a) Kani Shawl | b) Kullu Shawl | c) 1-C, 2-D, 3-B, 4-A | d) 1-B, 2-A, 3-C, 4-D |
| c) Pashmina Shawl | d) None of these | | |
| , | , | 24. Which of the following | ng statement is Incorrect |
| 17. What is the traditional | form of theatre in Kashmir | in computer termino | _ |
| known as? | | _ | ed to display visual output |
| | | | - · |

b) Bhand Pather

d) Ladishah

18. Match the following religious sites with their

from the computer.

executes instructions. d) None of these

b) Software applications can only run if the computer is connected to the internet.

c) A computer's CPU performs calculations and

a) Kathak

c) Lavani

suitable characteristics:

| 25 What day UDI -4- | | 26 A l | | 2 : | |
|--|---|---------------------|----------------|---------------------|-----------------------|
| | nd for in web browsing? | 36. A polynor | _ | | |
| a) Universal Resource locator | | | | | ar polynomial |
| b) Unified Resource Link | | (c) Quadration | polynomial | (d) Cubi | c polynomial |
| c) Uniform Resource Locator | | | | | |
| d) Uniform Routing Link | | 37. The value | of the polyn | omial P(x) = | $= x^2 - 4x + 5$ at |
| 26 Which armangamar | at among the following data | x = 2 is: | | | |
| | nt among the following data ter to smaller sizes is correct? | (a) 1 | (b) 5 | (c) 9 | (d) 10 |
| a) 1 KB > 1 MB > 1 (| | | | | |
| b) 1 MB > 1024 KB > | | 38. If $x - 2$ is | | | $al x^2 + ax +$ |
| c) 1 GB > 2048 MB > | | b, then th | e value of a | + b is: | |
| d) 1 TB > 500 GB > 1 | | (a) 4 | (b) 2 | (c) 0 | (d) -2 |
| u) 1 1D > 500 GD > 1 | 1 GB > 312 WB | | | | |
| 27. What does the "G | AD" stand for in the | _ | | | $2x^3 + 7x^2 + 3$ is: |
| | nent in Jammu & Kashmir? | (a) 1 | (b) 2 | (c) 3 | (d) 4 |
| a) General Accountin | | | | | |
| b) General Administra | | 40. If $x - 3$ is a | | $x^2 - 7x + k$, th | en the |
| c) Government Advis | | value of | | | |
| d) Government Affair | | (a) 1 | (b) 5 | (c) 6 | (d) 9 |
| 40 TH 11 11 N | | 41 The naint | (0 5) lies on | which ovis? | • |
| 28. The abbreviation N | | 41. The point | (0, 5) Hes of | | |
| a) National Association | | (a) X-axis | 1 7 7 | (b) Y-axis | |
| | ics and Space Administration | (c) Both X as | nd Y axes | (d) Neithe | r X nor Y axes |
| c) North American Sp | | 43 TI | | | |
| d) National Astronaut | and Space Agency | 42. The coord | | _ | 15 (4 45 |
| 20 "World Environmo | ent Day" is celebrated on | a) $(0, 0)$ | b) $(1, 0)$ | c) $(0, 1)$ | d) (1, 1) |
| which date? | int Day is celebrated on | 12 The distan | - a a b a4 | 4h a m aim4a (0 | 0) and (2, 4) is. |
| a) 21st March | b) 16th September | | | • ' | (1) 7 and (3, 4) is: |
| c) 5th September | d) 5th June | (a) 3 | (b) 4 | (c) 5 | 5 (d) 7 |
| c) sur septemen | a) sur vane | 44. The point | (3. 0) lies or | which axis? | • |
| 30. "World Anti-Drugs | Day" is observed on which | (a) X-axis | ` ' / | (b) Y-a | |
| date? | • | (c) Both a | | ` ′ | ther axis |
| a) July 26 | b) June 26 | (c) Dom a | IACS | (u) NCI | ilici axis |
| c) August 30 | d) November 1 | 45. The distar | nce of he poi | nt (0, 5) fron | n the origin is: |
| CECTION D | | (a) 0 | (b) 5 | (c) 10 | (d) 25 |
| SECTION B (| MATHEMATICS) | (4) | (0) 0 | (0) 10 | (a) 25 |
| 31 Which of the follow | ing numbers is irrational? | 46. The graph | of the equa | tion y = 2x + | - 1 is a: |
| | | (a) Straigh | nt line | | (b) Circle |
| (a) $\sqrt{16}$ (b) $\frac{4}{5}$ | (c) π (d) 0.25 | (c) Parabo | ola | | (d) Ellipse |
| <u>1</u> | | 48 80 | 0. | | |
| 32. The value of $(256)^{\frac{1}{4}}$ | | 47. The point | of intersecti | on of the lin | es x = 0 and |
| (a) 64 (b) 16 (c |) 8 (d) 4 | y = 0 is: | | | |
| | 7 | a) $(1, 0)$ | b) $(0, 0)$ | c) (0, 0) | d) (1, 1) |
| 33. The decimal repres | entation of ' 8 is: | 40 TP | .4 2 2 | | |
| (a) 0.125 (b) 0.75 | (c) 0.875 (d) 0.5 | 48. The equa | ation 2x + 3y | y = 6 is a: | , • |

34. The sum of a rational and an irrational number is:

35. Which of the following is a rational number?

(c) π

(d) $\sqrt{3}$

(c) Sometimes rational, sometimes irrational

(b) 0.3333

(a) Always rational

(b) Always irrational

(d) None of the above

(a) $\sqrt{2}$

(a) Quadratic equation (b) Linear equation

(c) Cubic equation (d) Bi-quadratic equation

49. The slope of the line 3x + 2y = 6 is: (a) 3 (b) -3/2(c) 2

50. The equation of a line parallel to y = 2x + 3 is:

(a) y = 2x - 1(b) y = -2x + 3

(c) y = x + 2(d) y = 2x - 5

(d) -2/3

| 51. If two parallel lines are intersected by a | b) Both Assertion and Reason are true, but Reason is |
|---|---|
| transversal, then the corresponding angles are: | not the correct explanation for the Assertion. |
| (a) Equal (b) Complementary | c) Assertion is true, but Reason is false. |
| (c) Supplementary (d) None of these | d) Assertion is false, but Reason is true. |
| 52. The sum of the angles of a triangle is: | 63. An object travels 18 m in 4 seconds and then |
| (a) 90° (b) 180° (c) 270° (d) 360° | another 18 m into seconds what is the average |
| | speed of object? |
| 53. If two angles are supplementary and one angle | a) 5.33 meter per second |
| is 60°, then the other angle is: | b) 6 meter per second |
| (a) 60° (b) 120° (c) 90° (d) 30° | c)3.2 meter per second dzero |
| 54. Vertically opposite angles are: | 64. At the starting of trip a car covers 2000 km and |
| (a) Equal (b) Supplementary | 2400 km at the end of the trip if the trip took 8 hours |
| (c) Complementary (d) Unequal | calculated the average speed in kilometer per hour. |
| 55. If two intersect each other, then the number of | a) 62 km per h b) 70 km per h |
| pairs of vertically opposite angles is: | c) 55 km per h d) 50 km per h |
| (a) 1 (b) 2 (c) 3 (d) 4 | |
| | 65. Identify the incorrect statement |
| 56. A triangle with all three sides equal is called: | a) The Acceleration is taken to be positive if it is in |
| (a) Scalene triangle (b) Isosceles triangle | direction of velocity |
| (c) Right-angled triangle (d) Equilateral triangle | b) The motion of a freely falling body is an example |
| | of non uniform acceleration |
| 57. The ratio of the sides of a 30° - 60° - 90° triangle is: | c) Acceleration is taken to be negative if it is an |
| (a) 1:2:3 (b) 1: $\sqrt{3}$: 2 | opposite direction of velocity |
| (c) 2:3:5 (d) 1:1: $\sqrt{2}$ | d) The velocity time graph gives us distance |
| 50 T 1 14 1 14 | 66. If the Acceleration of a car on applying brakes is |
| 58. In a right-angled triangle, the side opposite the | 3 m per second to stop after the application of |
| right angle is called the: | brakes calculate the distance |
| (a) Attitude (b) Base (c) Hypotenuse (d) Median | a) 3 m per second b) 6 m per second |
| (c) Hypotenuse (d) Median | c) 18 m per second d) 12 m per second |
| 59. The Pythagoras theorem is applicable to: | 67. Thew value of acceleration due to gravity |
| (a) All triangles | experienced by a body under free fall is |
| (b) Right-angled triangles | a) 15 m/s^2 b) 9.8 m/s c) 9.8 m/s^2 d) 10 m/s |
| (c) Acute-angled triangles | |
| (d) Obtuse-angled triangles | 68. The equations of motion are not valid in which of |
| | the following: |
| 60. In an equilateral triangle, each angle measures: | a) Constant Velocity b) Variable velocity |
| (a) 30° (b) 45° (c) 60° (d) 90° | c) constant Acceleration d) Variable acceleration |
| SECTION C (SCIENCE) | 69. Which of the following is the SI unit of force |
| | a) kg meter per second square |
| 61. The motion along a straight line is the type of | b) Kg m per second |
| motion that is | c) Newton meter |
| a) simplest b) complex | d) Newton |
| c) both A and b d) none | 70. the inertia of an object caused the object to |
| 62.Assertion: an object can acquired acceleration even | a) decrease its speed b) increase its speed c) resist any change in state of its motion |
| if it is moving at a constant speed | d) Deccelerate due to friction |
| Reason : with change in direction of motion and | a, December and to monon |
| object can acquire acceleration | |

a) Both Assertion and Reason are true, and Reason is the correct explanation for the Assertion

71 Which of the following statement is correct

- a) the first law of motion is known as the law of mass action
- b) The tendency of an object to resist or keep moving is inertia
- c)All obj do not resist a change in their state of motion
- d) External force is not needed to change the position of an object

72. Find the si unit of momenum from the formula p = mv

a) Kg m sec

- b) kg per m per s
- c) Kg m per second. Sq
- d) kg m per second

73. which would require a greater force accelerating a 3 kg at 5m per second or 6 kg mass at 2 m per second

- a) Both will require same force
- b) 3kg mass will require more force
- c) 6 kg will require more force
- d) The force applied will be zero
- **74. Assertion (A)**: The terms action and reaction in third law of motion stand for simultaneous mutual forces between a pair of bodies

Reason (R): Action always proceeds or causes reaction

- a) Both Assertion and Reason are true, and Reason is the correct explanation for the Assertion.
- b) Both Assertion and Reason are true, but Reason is not the correct explanation for the Assertion.
- c) Assertion is true, but Reason is false.
- d) Assertion is false, but Reason is true.

75. identify the incorrect statements regarding alloys

- 1. Alloys are mixtures of two or more metals or a metal and a nonmetal
- 2. The alloys are separated into their components by physical methods
- 3. And alloy cannot be considered as a mixture as it's composition is same throughout
- 4. Liquation is a metallurgical method for separating metals from an ore or alloys.
- a) all except 2 are correct
- b) 1 and 3 are incorrect
- c) 2 and 3 are incorrect
- d) all are incorrect

76. which of the following is not the property of colloidal solution

- a) the particle size is too small to be individually seen by the neck dye
- b) collides are big enough to scatter a beam of light passing through it and make its path visible

- c) They settle down when left undisturbed that is collide is quite unstable
- d) A colliod is a heterogeneous mixture

77. A solution contains 30 g of common salt in 320 g of water calculate the concentration in terms of mass by mass percentage of solution

- a) 11.1 percent
- b) 36 percent
- c) 7.6 percent
- d) 8.6 percent

78. . The particle of solution are smaller than

- a) 1nm
- b) 2nm
- c) 5nm
- d) 0.5nm

79. Who gave the Three fundamental laws of Motion?

- a) Einstein
- b) Robert Hooke
- c) newton
- d) Rutherford

80. which of the following material falls in the category of pure substances

- i. Ice
- ii . Water
- iii . Sugar in water
- iv . Milk a) i and ii
- v . HCl b) I ii ii and iv
- c) i, ii and v
- d) ii and v

81. Which of the following phenomena would increase with the rise in temperature

- a) Evaporation diffusion expansion of gases
- b) diffusion, evaporation, compression of gases
- c) Evaporation, solubility, diffusion
- d) Evaporation, compression of gases, solubility

82. match the following

| Column I | Column II |
|--------------------|--------------------|
| I. Solid to gas | A. Condensation |
| II. Gas to solid | B. Evaporation |
| III. Liquid to gas | C. Deposition |
| IV. Gas to liquid | D. Sublimation |

Options:

Option A: I - C, II - A, III - D, IV - B **Option B:** I - B, II - D, III - A, IV - C **Option C:** I - D, II - C, III - B, IV - A **Option D:** I - D, II - C, III - B, IV - A

83. Find out the correct statement among following

- I) boiling is a bulk phenomenon
- II) the states of matter are unconvertible
- III) evaporation causes cooling
- IV) force of attraction is maximum in gases
- a) i and ii are correct
- b) only ii is correct

- c) all except iv are correct
- d) i and ii are correct

84. The ----- of solid is an indication of strength of force of attraction between its particles

- a) boiling point
- b) freezing point
- c) Melting point
- d) Sublimation

85. In an activity camphor is crushed and heated after completion of experiment the result show evolving of gas at the end. which process has taken place:?

- a) deposition
- b) evaporation
- c) sublimation
- d) condensation

86. The physical state of water at 298 Kelvin is

- a) liquid state
- b) solid state
- c) gaseuous state
- d) none of the above

87. Generally the size of Eukaryotic cell is :-

a) 10-200µm

b) 100-200μm

c) 5-100µm

d) 5-50µm

88. Each of the following statement is true except?

- a) The cytoplasm is the fluid content inside the cell membrane.
- b) The Endoplasmic reticulum membrane Similar in structure to the plasma membrane.
- c) Membrane bound organelles are a characteristic of prokaryotic cells.
- d) Golgi apparatus consists of flattened discs parallel to each other.
- **89. Assertion (A)**: The endoplasmic reticulum which lacks ribosomes is called smooth Endoplasmic reticulum

Reason (R): STR is mainly involved in synthesis of proteins.

- a) Both A and R true and R is the correct explanation of A.
- b) Both A&R.
- c)A true R false.
- d)A false R true.
- **90. Assertion (A)**: A cell swells up when present in a hypotonic solution

Reason (R): More water molecules enter the cell than they leave

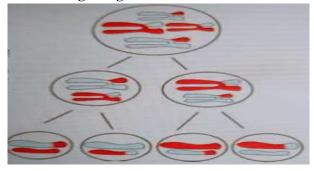
- a) Both A and R are correct R is the correct explanation of A.
- b) Both A&R.
- c)A true R false.
- d)A false R true.

- 91. In an Amoeba the specialised proteins speed up the change and after the division of nucleus cytoplasm divided having each nuclei: Which division has taken place.
 - a) Mitosis
- b) Meiosis
- c) Amitosis
- d) Meiosis 2

92. Match the following.

(1) RER

- (A) ATP
- (2) Leucoplast
- (B) protein synthesis
- (3) Mitochondria
- (C) storage
- (4) Lysosyme
- (D) Defence. b) 1-D, 2-A, 3-B, 4-C
- a) 1-B, 2-C, 3-A, 4-D c) 1-A, 2-C, 3-D, 4-B
- d) 1-C, 2-D, 3-A, 4-B
- 93. .The diagram given below shows.



- a) Equational division
- b) Meiosis
- c) Reductional division
- d) Both b&c
- 94. The diagram given below represents which type of epithelium.



- a) Cuboidal epithelium
- b) Squamous epithelium
- c) Columnar epithelium
- d) Stratified epithelium

95. Identify the incorrect statement.

- a) The growth of plants occur in certain specific regions because the dividing tissue, merismatic tissue is present.
- b) The cells of merismatic tissue are very active and they have a dense cytoplasm then cellulose walls and prominent nucleus.
- c) The vacoules are present in merismatic tissue and perform a specific function.
- d) Apical stem increases the growth of stem and the root.

96. Xylem and phloem are the examples of:

- a) Simple permanent tissue
- b) Complex permanent tissue
- c) Dividing tissue
- d) None of the above.

97. Match the following.

c) 1-C, 2-D, 3-B, 4-A

Column 1 Columm2 (1)
(1) Blood (A) Squamous ep.
(2) Skin (B) Cuboidal ep.
(3) Kidney tubules (C)Connective tissue.
(4) Glands (D) Glandular ep.
a) 1-C, 2-A, 3-B, 4-D b) 1-A, 2-B, 3-C, 4-D

98. Which of the following statement is true?

a) Two bones are connected to each other by Tendon.

d) 1-C, 2-B, 3-D, 4-A

- b) Areolar tissue is found between skin and muscles.
- c) Ligament connects bone to muscle and are a type of Connective tissue.
- d) Cartilage hardens the bone surface at joints.

99. Consists of relatively unspecialised cells with thin cell walls and the cells are living, loosely arranged.

a) Sclernchymab) Chlorenchymac) parenchymad) complex tissue

100. Which type of tissue is responsible for the movement in our body?

a) Epithelial tissueb) Nervous tissuec) Muscular tissued) Connective tissue