

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.
6. 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:-

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

Name of the Candidate : _____

Roll Number : _____ Candidate's Signature : _____

SECTION A (SCIENCE)**1. The study of cell is called as**

- a) Cytology b) histology c) Statistics d) none

2. Who discovered cell?

- a) Robert Hooke b) Robert brown
c) James William d) Pasture

3. Some plants have nitrogen-fixing bacteria in their root nodules. What are these bacteria called?

- a) Blue green algae b) Nitrosomonas
c) Azotobacter d) Rhizobium

4. Partial sterilization of a product such as milk at a high temperature is known as:

- a) Pasteurization b) Filtration
c) Pickling d) Refrigeration

5. Living organisms which are invisible to the naked eye are called

- a) Particles b) Molecules
c) Microorganisms d) Macroorganisms

6..An infectious disease is _____

- a) caused only by bacteria
b) spread from person to person
c) spread from animal to animal
d) caused only by viruses

7. Which of the following is a fossil fuel?

- a) Solar energy b) Wind energy
c) Coal d) Geothermal energy

8. What is the primary component of natural gas?

- a) Butane b) Propane
c) Methane d) Ethane

9. Which process is used to obtain petroleum?

- a) Filtration b) Distillation
- c) Sedimentation d) Evaporation

10. Which of the following is a by-product of petroleum refining?

- a) Kerosene b) Sand c) Water d) Salt

11. Which of these is not a renewable source of energy?

- a) Solar energy b) Wind energy
- c) Coal d) Hydropower

12. What is coal primarily composed of ?

- a) Calcium b) Carbon c) Sodium d) Hydrogen

13. Which of the following fuels is used for running automobiles?

- a) CNG b) Petrol c) both a and b d) Wood

14. Which one of the following gases is used in combustion?

- a) Hydrogen b) Oxygen
- c) Nitrogen d) Carbon dioxide

15. Magnesium burns to form

- a) Calcium Carbonate b) Magnesium Oxide
- c) Calcium Oxide d) Magnesium Sulphate

16 The burning of LPG is an example of:

- a) rapid combustion b) spontaneous combustion
- c) slow combustion d) explosion

17. Coal burns to produce

- a) calcium bicarbonate b) magnesium
- c) carbon dioxide d) oxygen

18.A temperature at which the substance burns is called

- a) melting b) boiling temperature
- c) kindling temperature d) evaporation

19 . The part of earth in which living organisms exist is called :-

- a) Stratosphere b) thermosphere
- c) biosphere d) none

20. _____ is the conversion of fertile land into desert

- a) Afforestation b) deforestation
- c) desertification d) soil erosion

21. Which of the following species are found in a particular area

- a) Endemic species b) Extinct species
- c) special species d) epidemic species

22. Which of the following statement is true :

- a) There are no national parks in India
- b) there are more than one hundred national parks in India
- c) Tiger national park is the largest national park
- d) All of the above

23. Ecosystem is made up of

- a) biotic components b) abiotic .
- c) Microorganisms d) All

24.____ is the restocking of destroyed forests by planting new trees

- a) Deforestation b) reforestation
- c) Recycling d) none

25. What is force?

- a) Pull b) Push
- c) Push & Pull d) None

26. What is state of motion?

- a) position of rest b) position of motion
- c) both by the state of rest or motion d) none

27. The strength of force is expressed by?

- a) weight b) mass
- c) magnitude d) longitudinal force

28. The force between two charged bodies is called

- a) muscular force b) gravitational force
- c) magnetic force d) electrostatic force

29. When two forces act in opposite directions, then net force acting two forces

- a) sum of two factors
- b) difference between two factors
- c) both of these
- d) none of these

30. Magnetic force is

- a) contact force
- b) non-contact force
- c) both a and b
- d) none of these

31. Force acts on an object may change

- a) direction
- b) shape
- c) speed
- d) all of above

32. Sound is produced by

- a) Non-Vibrating objects only.
- b) Vibrating and non- vibrating objects
- c) Vibration has no relation to sound
- d) Vibrating objects only

33. Sound cannot travel through

- a) vacuum
- b) air
- c) water
- d) solids

34. Vibration is also known as

- a) Vibratory motion
- b) Translatory motion
- c) Oscillatory motion
- d) None of these

35. Frequency is expressed in

- a) Kilometer
- b) Hertz
- c) Gram
- d) Degree centigrade

36. The number of oscillations per second is called

- a) Amplitude of oscillation
- b) Pitch of oscillation
- c) Frequency of oscillation
- d) None of the above .

37. for human ear the audible frequency is between

- a) 20 to 20000 hz
- b) 20 to 1000 hz
- c) 20000 to 40000 hz
- d) none .

38. When the amplitude of vibration is large, sound produced is

- a) No sound
- b) feeble
- c) loud
- d) No relation between amplitude and sound

39. The study of sound is called

- a) anemology
- b) acoustics
- c) phonetics
- d) kinetics

40. Who is the father of modern physics

- a) Isaac Newton
- b) Albert Einstein
- c) Aristotle
- d) Robert hooke

SECTION B (MATHEMATICS)

41. Which of the following is a rational number?

- a) $\sqrt{2}$
- b) 3
- c) π
- d) 0.5

42. What is the additive inverse of $\frac{3}{5}$?

- a) $-\frac{3}{5}$
- b) $\frac{5}{3}$
- c) 1
- d) 0

43. The sum of $\frac{2}{3}$ and $\frac{1}{6}$ is:

- a) $\frac{1}{2}$
- b) $\frac{5}{6}$
- c) $\frac{2}{9}$
- d) $\frac{3}{6}$

44. Which of the following is the multiplicative inverse of 4?

- a) $\frac{1}{4}$
- b) -4
- c) 0
- d) 4

45. A rational number between $\frac{1}{2}$ and $\frac{3}{4}$ is:

- a) $\frac{5}{8}$
- b) $\frac{7}{8}$
- c) $\frac{3}{8}$
- d) $\frac{2}{8}$

46. Solve $3x - 7 = 8$:

- a) 5
- b) 3
- c) 7
- d) 4

47. If $5x + 3 = 18$, the value of x is:

- a) 3
- b) 5
- c) 7
- d) 10

48. The solution to the equation $2x - 5 = 11$ is:

- a) 3
- b) 8
- c) 9
- d) 7

49. Solve $\frac{x}{4} + 2 = 5$:

- a) 3
- b) 12
- c) 4
- d) 10

50. What is the value of x in $7(x + 2) = 35$?

- a) 3
- b) 5
- c) 7
- d) 10

51. The sum of the interior angles of a quadrilateral is:

- a) 360°
- b) 180°
- c) 90°
- d) 720°

52. A quadrilateral with one pair of parallel sides is called a:

- a) Parallelogram
- b) Trapezium
- c) Square
- d) Rectangle

53. In a parallelogram, opposite angles are:

- a) Complementary
- b) Equal
- c) Unequal
- d) Supplementary

SECTION C (G.K)

54. Which of the following is a regular quadrilateral?

- a) Square
- b) Rhombus
- c) Rectangle
- d) Trapezium

55. A quadrilateral with all sides equal and all angles 90° is a:

- a) Rhombus
- b) Square
- c) Rectangle
- d) Parallelogram

56. The range of the data set {5, 9, 12, 15, 7, 10} is:

- a) 10
- b) 8
- c) 15
- d) 7

57. The mode of the data {4, 5, 7, 4, 9, 4, 10, 5} is:

- a) 5
- b) 7
- c) 4
- d) 9

58. The mean of the numbers 6, 8, 10, and 12 is:

- a) 8
- b) 9
- c) 10
- d) 11

59. The median of the data {2, 6, 8, 10, 12} is:

- a) 8
- b) 6
- c) 7
- d) 9

60. The probability of getting a head when tossing a coin is:

- a) $1/3$
- b) $1/4$
- c) $1/2$
- d) 1

61. The square of 15 is:

- a) 225
- b) 150
- c) 205
- d) 250

62. Which of the following is a perfect square?

- a) 50
- b) 121
- c) 150
- d) 200

63. The square root of 144 is:

- a) 14
- b) 13
- c) 12
- d) 16

64. The square root of 169 is:

- a) 11
- b) 12
- c) 13
- d) 14

65. If the area of a square is 49 cm^2 , its side length is:

- a) 9 cm
- b) 7 cm
- c) 14 cm
- d) 12 cm

66. The cube of 3 is:

- a) 27
- b) 9
- c) 18
- d) 30

67. The cube root of 64 is:

- a) 3
- b) 4
- c) 5
- d) 6

68. Which of the following numbers is a perfect cube?

- a) 15
- b) 27
- c) 50
- d) 60

69. The cube of 2 is:

- a) 4
- b) 6
- c) 8
- d) 12

70. The cube root of 125 is:

- a) 3
- b) 5
- c) 25
- d) 15

71. Who was the first Maharaja of Jammu & Kashmir?

- a) Hari Singh
- b) Gulab Singh
- c) Ranbir Singh
- d) Pratap Singh

72. Which significant event in the history of J&K occurred in 1947?

- a) treaty of Lahore
- b) Accession to India
- c) First War of Independence
- d) Shimla Agreement

73. Which dynasty is known for its rule over Kashmir during the medieval period?

- a) Mughal Dynasty
- b) Dogra Dynasty
- c) Abdullah Dynasty
- d) Gupta Dynasty

74. Which mountain range separates Kashmir Valley from Ladakh?

- a) pirpanjal Range
- b) Zaskar Range
- c) Shivalik Range
- d) Karakoram Range

75. Which is the largest freshwater lake in India, located in Kashmir?

- a) Dal Lake
- b) Wular Lake
- c) Mansar Lake
- d) Pangong Lake

76. Which of the following correctly arranges the districts of the Kashmir region in order of their population, from most to least populated?

- a) Srinagar > Budgam > Baramulla
- b) Baramulla > Budgam > Srinagar
- c) Budgam > Srinagar > Baramulla
- d) Srinagar > Baramulla > Budgam

77. The famous Amarnath Cave Temple is dedicated to which Hindu deity?

- a) Vishnu
- b) Shiva
- c) Ganesh
- d) Durga

78. Which of the following is not a tributary of the Jhelum River?

- a) Lidder
- b) Sindh
- c) Suru
- d) Pohru

79. Who was the first female Chief Minister of Jammu and Kashmir?

- a) Sonia Gandhi
- b) Mehbooba Mufti
- c) Indira Gandhi
- d) Sakeena Itoo

80. Match the following famous personalities with their respective roles:

Column I:	Column II:
I. Poet	A. Ghulam Nabi Azad
II. Former Chief Minister	B. Manoj Sinha
III. Lieutenant Governor	C. Mehjoor
IV. Renowned Sufi Saint	D. Sheikh Noor-ud-din Wali

- a) I - D, II - A, III - C, IV - B
- b) I - C, II - A, III - B, IV - D
- c) I - A, II - D, III - B, IV - C
- d) I - B, II - C, III - D, IV - A

81. Who wrote the famous Persian Couplet "Agar firdaus bar roo-e zameen ast, Hameen ast-o hameen ast-o hameen ast". for kashmir?

- a) Rumi
- b) Omar Khayyam
- c) Amir Khusrau
- d) Mirza Ghalib

82. Who is the current Member of Parliament for the Srinagar parliamentary constituency?

- a) Farooq Abdullah
- b) Agha Syed Ruhullah Mehdi
- c) Engineer Rashid
- d) Mia Altaf

83. Which scheme in J&K specifically focuses on providing free education to underprivileged children?

- a) Beti Bachao Beti Padhao
- b) Sarva Shiksha Abhiyan
- c) Pradhan Mantri Awas Yojana
- d) Swachh Bharat Abhiyan

84. How many total assembly constituencies are there in Jammu and Kashmir after it became a Union Territory?

- a) 90
- b) 87
- c) 94
- d) 82

85. Which festival, celebrated in many parts of the world on 21st March including Kashmir, marks the Persian New Year and the beginning of spring?

- a) Baisakhi
- b) Navroz
- c) mehregan
- d) Lohri

86. What is the traditional Kashmiri woolen shawl known for its intricate patterns and warmth called?

- a) Kani Shawl
- b) Kullu Shawl
- c) Pashmina Shawl
- d) None of these

87. What is the traditional form of theatre in Kashmir known as?

- a) Kathak
- b) Bhand Pather
- c) Lavani
- d) Ladishah

88. Match the following religious sites with their suitable characteristics:

Column 1 (Religious Sites):	Column 2 (Characteristics):
1. Jamia Masjid Nowhatta	A) Sufi shrine with intricate carvings
2. Imam Bargah	B) Famous for its beautiful wooden architecture
3. Shankaracharya Temple	C) Located on a hilltop, ancient site
4. Khaqah-e-Moula	D) Sacred site for Shia Muslims

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

89. Pari Mahal, the famous tourist destination in Jammu and Kashmir, is also known as which of the following?

- a) Palace of Dreams
- b) Palace of Gardens
- c) Palace of Fairies
- d) Palace of Kings

90. Which fort is located on Koh-e-Maran Hill in J&K ?

- a) Hari Parbat Fort
- b) Bahu Fort
- c) Akhnoor fort
- d) None of these

91. What can individuals do to help reduce environmental issues in Jammu and Kashmir?

- a) Use More Non-renewable Resources
- b) Increase Plastic Use
- c) Promote Industrial Expansion
- d) Reduce, Reuse, Recycle

92. Which of the following software is commonly used to create presentations?

- a) Microsoft Excel
- b) Microsoft Word
- c) Microsoft PowerPoint
- d) Microsoft Access

93. Match the following computer components with their functions:

Column A:	Column B:
1. Keyboard	A. Stores data permanently
2. Hard Disk	B. Input device
3. CPU	C. Executes instructions and processes data
4. RAM	D. Temporary storage

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

94. Which of the following statement is Incorrect in computer terminology?

- a) The monitor is used to display visual output from the computer.
- b) Software applications can only run if the computer is connected to the internet.
- c) A computer's CPU performs calculations and executes instructions.
- d) None of these

95. What does URL stand for in web browsing?

- a) Universal Resource locator
- b) Unified Resource Link
- c) Uniform Resource Locator
- d) Uniform Routing Link

96. Which arrangement among the following data storage from Greater to smaller sizes is correct?

- a) 1 KB > 1 MB > 1 GB > 2 TB
- b) 1 MB > 1024 KB > 1 B > 512 KB
- c) 1 GB > 2048 MB > 512 KB > 100 B
- d) 1 TB > 500 GB > 1 GB > 512 MB

97. What does the "GAD" stand for in the context of government in Jammu & Kashmir?

- a) General Accounting Division
- b) General Administration Department
- c) Government Advisory Department
- d) Government Affairs Division

98. The abbreviation NASA stands for?

- a) National Association of Space Agencies
- b) National Aeronautics and Space Administration
- c) North American Space Agency
- d) National Astronaut and Space Agency

99. "World Environment Day" is celebrated on which date?

- a) 21st March
- b) 16th September
- c) 5th September
- d) 5th June

100. "World Anti-Drugs Day" is observed on which date?

- a) July 26
- b) June 26
- c) August 30
- d) November 1