

TYBA COACHING CENTRE

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JAWAHAR NAVODAYA VIDYALAYA SELECTION TEST (JNVST) 2026–2027

CLASS XI LATERAL ENTRY ADMISSION ENTRANCE TEST — 100 MCQ OFFICIAL PATTERN PAPER

Total Questions: 100 Multiple Choice Questions (MCQs) • Maximum Marks: 100 • Duration: 2.5 Hours (150 Minutes)

CANDIDATE INSTRUCTIONS:

1. This question paper contains **100 objective multiple-choice questions** strictly structured as per the official NVS Class 11 Lateral Entry examination pattern.
2. **Section I:** Mental Ability (20 Qs) | **Section II:** English (20 Qs) | **Section III:** Science (20 Qs) | **Section IV:** Social Science (20 Qs) | **Section V:** Mathematics (20 Qs).
3. Each question carries **1 mark**. There is NO negative marking for wrong attempts.

EXAMINATION GUIDELINES:

4. Darken the corresponding bubble on the OMR answer sheet using blue or black ballpoint pen only.
5. Qualifying marks are required in all five sections as per Navodaya Vidyalaya admission criteria.
6. Time allocation: Approximately 28–30 minutes per section, with 10 minutes reserved for OMR verification.

SECTION I: MENTAL ABILITY TEST (QUESTIONS 1 – 20)

Q1. Find the missing number in the series: 4, 9, 19, 39, 79, ?

- | | |
|---------|---------|
| (A) 149 | (B) 159 |
| (C) 169 | (D) 139 |

Q2. If 'PLANET' is coded as 'QMBOGU' in a code language, how is 'ROCKET' coded in that language?

- | | |
|------------|------------|
| (A) SPDLFU | (B) SPDMEU |
| (C) SPELFU | (D) SOELFU |

Q3. Point to a photograph, Rohit says, 'She is the daughter of the only son of my grandfather.' How is the girl related to Rohit?

- | | |
|------------|------------|
| (A) Mother | (B) Aunt |
| (C) Cousin | (D) Sister |

Q4. Select the odd one out from the given group:

- | | |
|-------------|-----------|
| (A) Mercury | (B) Venus |
| (C) Moon | (D) Mars |

Q5. A person walks 10 km South, turns left and walks 5 km, then turns left again and walks 10 km. How far and in which direction is he from the starting point?

- | | |
|----------------|-----------------|
| (A) 5 km West | (B) 5 km East |
| (C) 10 km East | (D) 10 km North |

Q6. In a class of 45 students, Meena ranks 12th from the top. What is her rank from the bottom?

- | | |
|----------|----------|
| (A) 34th | (B) 33rd |
| (C) 35th | (D) 32nd |

Q7. Complete the letter series: Z, X, V, T, R, ?

(A) Q

(B) O

(C) N

(D) P

Q8. If '×' means '+', '÷' means '-', '+' means '×', and '-' means '÷', then evaluate: $20 + 4 - 8 \div 6 \times 2 = ?$

(A) 10

(B) 12

(C) 6

(D) 8

Q9. Which Venn diagram best represents the relationship between: Women, Mothers, Doctors?

(A) Three separate circles

(B) All Mothers are Women, and some Mothers and Women are Doctors

(C) All Women are Mothers, and all Doctors are Women

(D) All Doctors are Mothers, and all Mothers are Women

Q10. Doctor : Stethoscope :: Sculptor : ?

(A) Chisel

(B) Anvil

(C) Hammer

(D) Brush

Q11. Find the missing term: 2, 5, 10, 17, 26, ?

(A) 35

(B) 39

(C) 41

(D) 37

Q12. If North-West becomes South, and North-East becomes West, what will South become?

(A) North-West

(B) South-East

(C) North-East

(D) South-West

Q13. Five boys P, Q, R, S, T are standing in a line. P is taller than Q but shorter than T. R is the shortest. S is shorter than P but taller than Q. Who is the tallest?

(A) P

(B) T

(C) S

(D) Q

Q14. Choose the related number: 7 : 56 :: 9 : ?

(A) 90

(B) 81

(C) 72

(D) 99

Q15. Find the odd number pair: (8, 64), (6, 36), (7, 49), (9, 80)

(A) (8, 64)

(B) (6, 36)

(C) (7, 49)

(D) (9, 80)

Q16. If tomorrow is Sunday, what day was yesterday?

(A) Thursday

(B) Saturday

(C) Friday

(D) Monday

Q17. Statements: (1) All roses are flowers. (2) All flowers are plants. Conclusions: I. All roses are plants. II. Some plants are roses.

(A) Only I follows

(B) Both I and II follow

(C) Only II follows

(D) Neither follows

Q18. Find the missing number in the matrix: [[3, 4, 25], [5, 12, 169], [8, 15, ?]]

(A) 289

(B) 225

(C) 256

(D) 324

Q19. Count the number of squares in an 8×8 chessboard.

(A) 64

(B) 128

(C) 256

(D) 204

Q20. Which word can be formed from the letters of 'KNOWLEDGE'?

(A) GOLDEN

(B) GOWN

(C) LODGE

(D) LEMON

SECTION II: ENGLISH LANGUAGE TEST (QUESTIONS 21 – 40)

Q21. Choose the correct synonym of 'METICULOUS':

(A) Careless

(B) Careful

(C) Hasty

(D) Sloppy

Q22. Choose the correct antonym of 'OBSOLETE':

(A) Contemporary

(B) Ancient

(C) Outdated

(D) Antique

Q23. Identify the correctly spelled word:

(A) Privelege

(B) Priviledge

(C) Privilegee

(D) Privilege

Q24. Fill in the blank: She has been waiting for the bus ____ two hours.

(A) since

(B) from

(C) for

(D) at

Q25. Convert to Passive Voice: 'The teacher praised the honest student.'

(A) The honest student is praised by the teacher.

(B) The honest student was praised by the teacher.

(C) The honest student had been praised by the teacher.

(D) The honest student was being praised by the teacher.

Q26. Convert to Indirect Speech: Rita said, 'I have finished my painting.'

(A) Rita said that she had finished her painting.

(B) Rita said that she has finished her painting.

(C) Rita said that she finished her painting.

(D) Rita told that she had finished her painting.

Q27. Find the error: 'One of my friends (A) / are going (B) / to England tomorrow (C) / No error (D)'

(A) A

(B) C

(C) D

(D) B

Q28. Choose one word for: 'A person who compiles a dictionary'

(A) Calligrapher

(B) Bibliophile

(C) Lexicographer

(D) Cartographer

Q29. Choose the meaning of the idiom: 'Once in a blue moon'

- | | |
|----------------------|-----------------|
| (A) Very frequently | (B) Very rarely |
| (C) On full moon day | (D) Every month |
-

Q30. Fill in the blank: He is addicted ____ playing mobile games.

- | | |
|--------|----------|
| (A) to | (B) with |
| (C) at | (D) for |
-

Q31. Identify the antonym of 'TRANSIENT':

- | | |
|-----------------|---------------|
| (A) Temporary | (B) Fleeting |
| (C) Short-lived | (D) Permanent |
-

Q32. Choose the correct sentence:

- | | |
|--|---|
| (A) Neither the principal nor the teachers was present. | (B) Neither the principal or the teachers were present. |
| (C) Neither the principal nor the teachers were present. | (D) Neither of the teachers were present. |
-

Q33. One word substitution: 'An event that happens once every two years'

- | | |
|---------------|----------------|
| (A) Biannual | (B) Biennial |
| (C) Perennial | (D) Centennial |
-

Q34. Synonym of 'CANDID':

- | | |
|-----------|---------------|
| (A) Frank | (B) Deceitful |
| (C) Shy | (D) Secretive |
-

Q35. Fill in the blank: If you ____ hard, you will secure the first rank.

- | | |
|----------------|---------------|
| (A) worked | (B) will work |
| (C) had worked | (D) work |
-

Q36. Choose the correct meaning of 'Burn the midnight oil':

- | | |
|--|-------------------------------------|
| (A) To waste precious fuel | (B) To cause an accidental fire |
| (C) To study or work late into the night | (D) To wake up early in the morning |
-

Q37. Identify the part of speech of 'bravery':

- | | |
|-----------------|-------------------|
| (A) Proper Noun | (B) Abstract Noun |
| (C) Adjective | (D) Adverb |
-

Q38. Select the correct tag: You can drive a car, ____?

- | | |
|---------------|---------------|
| (A) can't you | (B) can you |
| (C) could you | (D) don't you |
-

Q39. Fill in the blank: He is ____ European citizen residing in Delhi.

- | | |
|----------------|---------|
| (A) an | (B) the |
| (C) no article | (D) a |
-

Q40. Choose the correct spelling:

- | | |
|-----------------|-----------------|
| (A) Beurocracy | (B) Bureaucrasy |
| (C) Bureaucracy | (D) Bureacracy |
-

SECTION III: GENERAL SCIENCE TEST (QUESTIONS 41 – 60)

Q41. What type of reaction is the respiration in human cells?

- (A) Endothermic reaction
- (B) Exothermic reaction
- (C) Combination reaction
- (D) Displacement reaction

Q42. What is the common chemical name of washing soda?

- (A) Sodium carbonate decahydrate
- (B) Sodium hydrogen carbonate
- (C) Calcium oxychloride
- (D) Calcium sulphate hemihydrate

Q43. Which metal is kept immersed in kerosene oil to prevent accidental fires?

- (A) Magnesium
- (B) Iron
- (C) Gold
- (D) Sodium

Q44. The first member of the alkyne homologous series is:

- (A) Propyne
- (B) Methane
- (C) Ethyne
- (D) Ethene

Q45. Which chamber of the human heart receives oxygen-rich blood from the lungs?

- (A) Right atrium
- (B) Left atrium
- (C) Left ventricle
- (D) Right ventricle

Q46. Involuntary actions like salivation, blood pressure, and vomiting are controlled by the:

- (A) Medulla in the hindbrain
- (B) Cerebrum in the forebrain
- (C) Cerebellum
- (D) Spinal cord

Q47. Which part of the flower develops into a fruit after fertilization?

- (A) Ovule
- (B) Style
- (C) Stigma
- (D) Ovary

Q48. A normal human sperm cell carries which of the following sex chromosomes?

- (A) Only an X chromosome
- (B) Only a Y chromosome
- (C) Either an X or a Y chromosome
- (D) Both X and Y chromosomes

Q49. An object is placed at 2F₁ in front of a convex lens. Its image will be formed at:

- (A) F₂
- (B) 2F₂
- (C) Between F₂ and 2F₂
- (D) Infinity

Q50. The phenomenon responsible for the blue color of a clear daytime sky is:

- (A) Scattering of light
- (B) Dispersion of light
- (C) Atmospheric refraction
- (D) Total internal reflection

Q51. The commercial unit of electric energy is kilowatt-hour (kWh), which equals:

- (A) 3.6×10^5 J
- (B) 3.6×10^4 J
- (C) 1000 J
- (D) 3.6×10^6 J

Q52. A magnetic compass needle placed near a current-carrying straight conductor deflects. This demonstrates the:

- (A) Heating effect of electric current
- (B) Chemical effect of electric current
- (C) Magnetic effect of electric current
- (D) Electrostatic effect

Q53. In an ecosystem, flow of energy through trophic levels is always:

- (A) Bidirectional
- (B) Unidirectional
- (C) Multidirectional
- (D) Cyclic

Q54. What is the pH range within which the human body works normally?

- (A) 7.0 to 7.8
- (B) 5.5 to 6.5
- (C) 8.0 to 9.0
- (D) 6.0 to 6.8

Q55. The green coating formed on copper articles when exposed to moist air consists of:

- (A) Copper oxide
- (B) Copper sulphate
- (C) Copper chloride
- (D) Basic copper carbonate

Q56. Name the functional group present in CH_3COCH_3 (propanone):

- (A) Aldehyde
- (B) Carboxylic acid
- (C) Ketone
- (D) Alcohol

Q57. The breakdown of glucose into three-carbon pyruvate molecules occurs in the:

- (A) Mitochondria
- (B) Cytoplasm
- (C) Nucleus
- (D) Endoplasmic reticulum

Q58. Which gland secretes insulin to regulate blood sugar levels in the human body?

- (A) Pancreas
- (B) Thyroid
- (C) Adrenal
- (D) Pituitary

Q59. A doctor prescribes a corrective lens of power +2.5 D. The lens is:

- (A) Concave lens of focal length -0.4 m
- (B) Convex lens of focal length +2.5 m
- (C) Concave lens of focal length -2.5 m
- (D) Convex lens of focal length +0.4 m

Q60. Which trophic level in a food chain accumulates the highest concentration of toxic chemicals due to biomagnification?

- (A) Primary consumers
- (B) Producers
- (C) Top carnivores
- (D) Herbivores

SECTION IV: SOCIAL SCIENCE TEST (QUESTIONS 61 – 80)

Q61. Who was the architect of the unification of Germany under the Prussian leadership?

- (A) Giuseppe Garibaldi
- (B) Otto von Bismarck
- (C) Count Cavour
- (D) Kaiser William I

Q62. The Non-Cooperation Movement was called off by Mahatma Gandhi due to which incident?

- (A) Chauri Chaura incident (1922)
- (B) Jallianwala Bagh massacre (1919)
- (C) Kakori conspiracy (1925)
- (D) Dandi March (1930)

Q63. Which treaty recognized Greece as an independent sovereign nation in 1832?

- (A) Treaty of Vienna
- (B) Treaty of Versailles
- (C) Treaty of Paris
- (D) Treaty of Constantinople

Q64. Soil formed by intense leaching due to heavy rain in tropical areas is:

- (A) Black soil
- (B) Alluvial soil
- (C) Laterite soil
- (D) Arid soil

Q65. Which multipurpose river valley project is constructed across the Satluj-Beas river basin?

- (A) Damodar Valley Project
- (B) Bhakra Nangal Project
- (C) Hirakud Project
- (D) Tehri Dam Project

Q66. The slash and burn agriculture is known as 'Jhumming' in which region of India?

- (A) North-Eastern states
- (B) Western Ghats
- (C) Himalayan belt
- (D) Chotanagpur plateau

Q67. Which is the premier iron ore exporting port of India located in Goa?

- (A) Kandla Port
- (B) Kochi Port
- (C) Paradip Port
- (D) Marmagao Port

Q68. Power shared among governments at different levels (National, State, Local) is called:

- (A) Horizontal distribution of power
- (B) Community government
- (C) Vertical distribution of power
- (D) Coalition government

Q69. Which tier was added to the Indian federal system through the 73rd and 74th Constitutional Amendments?

- (A) Zila Parishad only
- (B) Local Self-Government (Panchayats & Municipalities)
- (C) State Legislative Councils
- (D) Union Territories

Q70. Which of the following is a recognized State (regional) party in India?

- (A) Telugu Desam Party (TDP)
- (B) Aam Aadmi Party (AAP)
- (C) Trinamool Congress
- (D) Bharatiya Janata Party (BJP)

Q71. What is the average income of a country obtained by dividing national income by total population called?

- (A) Disposable Income
- (B) Gross National Product
- (C) Human Development Index
- (D) Per Capita Income

Q72. Which sector of the Indian economy has emerged as the largest producing sector in terms of GDP share?

- (A) Primary Sector
- (B) Secondary Sector
- (C) Tertiary (Service) Sector
- (D) Agricultural Sector

Q73. Money in the form of coins and currency notes that has no intrinsic value of its own is known as:

- (A) Commodity Money
- (B) Fiat Money
- (C) Credit Money
- (D) Plastic Money

Q74. An essential condition for fair globalization is that it should:

- (A) Create opportunities for all and share benefits equally
- (B) Benefit only large multinational corporations
- (C) Eliminate all labor welfare laws
- (D) Promote import duties worldwide

Q75. Who wrote the famous patriotic hymn 'Vande Mataram'?

- (A) Rabindranath Tagore
- (B) Abanindranath Tagore
- (C) Subhas Chandra Bose
- (D) Bankim Chandra Chattopadhyay

Q76. Which of the following is a major non-conventional source of energy?

- (A) Coal
- (B) Petroleum
- (C) Solar energy
- (D) Natural gas

Q77. The National Consumer Disputes Redressal Commission (NCDRC) entertains consumer claims exceeding:

- (A) ₹20 Lakh
- (B) ₹2 Crore (under Consumer Protection Act 2019)
- (C) ₹50 Lakh
- (D) ₹1 Crore

Q78. The system of checks and balances is a notable feature of:

- (A) Horizontal power sharing
- (B) Vertical power sharing
- (C) Unitary system
- (D) Dictatorship

Q79. Which Indian state has the highest literacy rate according to national census reports?

- (A) Goa
- (B) Himachal Pradesh
- (C) Tamil Nadu
- (D) Kerala

Q80. Collateral is an asset that the borrower owns and pledges as a guarantee to a:

- (A) Government authority
- (B) Insurance company
- (C) Lender until the loan is repaid
- (D) Depository participant

SECTION V: MATHEMATICS TEST (QUESTIONS 81 – 100)

Q81. The HCF of two consecutive even integers is always:

- (A) 1
- (B) 2
- (C) 4
- (D) 0

Q82. If the sum of zeroes of the polynomial $p(x) = 2x^2 - kx + 6$ is 4, find the value of k.

- (A) 8
- (B) 4
- (C) 6
- (D) 2

Q83. For what value of k will the system of equations $x + 2y = 5$ and $3x + ky + 15 = 0$ have NO solution?

- (A) 3
- (B) 2
- (C) 5
- (D) 6

Q84. Find the discriminant of the quadratic equation $3x^2 - 5x + 2 = 0$.

- (A) 49
- (B) 25
- (C) 1
- (D) 0

Q85. Find the 10th term of the AP: 2, 7, 12, ...

- | | |
|--------|--------|
| (A) 42 | (B) 47 |
| (C) 52 | (D) 37 |
-

Q86. The distance of the point P(-6, 8) from the origin (0, 0) is:

- | | |
|--------------|--------------|
| (A) 10 units | (B) 14 units |
| (C) 6 units | (D) 8 units |
-

Q87. If $4 \tan \theta = 3$, then evaluate $(4 \sin \theta - \cos \theta) / (4 \sin \theta + \cos \theta)$:

- | | |
|-----------|-----------|
| (A) $2/3$ | (B) $1/3$ |
| (C) $3/4$ | (D) $1/2$ |
-

Q88. A pole 6 m high casts a shadow $2\sqrt{3}$ m long on the ground. The sun's elevation angle is:

- | | |
|----------------|----------------|
| (A) 30° | (B) 45° |
| (C) 60° | (D) 90° |
-

Q89. If two tangents TP and TQ are drawn to a circle with centre O from external point T such that $\angle POQ = 110^\circ$, then $\angle PTQ$ is:

- | | |
|----------------|----------------|
| (A) 80° | (B) 70° |
| (C) 90° | (D) 60° |
-

Q90. If the perimeter and the area of a circle are numerically equal, then radius of the circle is:

- | | |
|-------------|-----------------|
| (A) 2 units | (B) π units |
| (C) 4 units | (D) 7 units |
-

Q91. Two identical solid cubes of volume 64 cm^3 each are joined end to end. The surface area of the resulting cuboid is:

- | | |
|------------------------|------------------------|
| (A) 128 cm^2 | (B) 144 cm^2 |
| (C) 192 cm^2 | (D) 160 cm^2 |
-

Q92. If the mode of the numbers 2, 3, 4, 3, 5, 3, 6, 7 is 3, what is the frequency of the modal value?

- | | |
|-------|-------|
| (A) 2 | (B) 4 |
| (C) 3 | (D) 1 |
-

Q93. Which of the following cannot be the probability of an event?

- | | |
|-----------|----------|
| (A) $2/3$ | (B) -1.5 |
| (C) 15% | (D) 0.7 |
-

Q94. A box contains 3 blue, 2 white, and 4 red marbles. What is the probability that a marble drawn at random is white?

- | | |
|-----------|-----------|
| (A) $2/9$ | (B) $1/3$ |
| (C) $4/9$ | (D) $5/9$ |
-

Q95. The sum of the first 20 odd natural numbers is:

- | | |
|---------|---------|
| (A) 200 | (B) 210 |
| (C) 420 | (D) 400 |
-

Q96. The coordinates of the point dividing the segment joining (1, -2) and (-3, 4) internally in the ratio 1:1 (midpoint) are:

- (A) (1, -1) (B) (2, 1)
(C) (-1, 1) (D) (-2, 2)

Q97. If $\sin(A - B) = 1/2$ and $\cos(A + B) = 1/2$ (where $0^\circ < A+B \leq 90^\circ$ and $A > B$), find A and B:

- (A) $A = 60^\circ, B = 30^\circ$ (B) $A = 45^\circ, B = 15^\circ$
(C) $A = 45^\circ, B = 30^\circ$ (D) $A = 30^\circ, B = 15^\circ$

Q98. A cone, a hemisphere, and a cylinder stand on equal bases and have the same height. The ratio of their volumes is:

- (A) 1 : 2 : 3 (B) 2 : 3 : 1
(C) 3 : 2 : 1 (D) 1 : 3 : 2

Q99. For the given distribution, if Class: 0-10, 10-20, 20-30, 30-40, 40-50 and Frequencies: 5, 8, 12, 10, 5, the modal class is:

- (A) 10-20 (B) 30-40
(C) 0-10 (D) 20-30

Q100. A die is thrown once. What is the probability of getting a prime number?

- (A) $1/3$ (B) $1/6$
(C) $1/2$ (D) $2/3$

OFFICIAL ANSWER KEY — 100 MCQS (ALL SECTIONS)

Authentic Key Prepared by Faculty Experts at **TYBA COACHING CENTRE** • Contact: **6367029449**

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

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