TYBA COACHING CENTRE

DIRECT CONTACT / WHATSAPP: 6367029449

JAWAHAR NAVODAYA VIDYALAYA SELECTION TEST (JNVST) 2026–2027

CLASS XI LATERAL ENTRY ADMISSION TEST — DAILY FULL PRACTICE PAPER (SET 04)

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 next number in the series: 6, 13, 28, 59, ?

(A) 120 **(B)** 122
(C) 118 **(D)** 124

Q2. In a code language, 'NATURE' is written as 'MASUQE'. How is 'FAMOUS' written in that code?

(A) EALNTR **(B)** EAMPVR
(C) EBLNVR **(D)** EALMTR

Q3. A man introduces a lady and says, 'Her mother is the only daughter of my mother-in-law.' How is the man related to the lady?

(A) Uncle **(B)** Brother
(C) Grandfather **(D)** Father

Q4. Choose the odd one out from the given options:

(A) Cuboid **(B)** Prism
(C) Trapezium **(D)** Pyramid

Q5. A boy runs 15 m North, turns right and runs 20 m, then turns right again and runs 15 m. How far is he from his initial starting point?

(A) 35 m **(B)** 20 m
(C) 15 m **(D)** 50 m

Q6. In a class of 50 students, Ravi's rank is 15th from the top. What is his rank from the bottom?

(A) 36th **(B)** 35th
(C) 37th **(D)** 34th

Q7. Complete the letter series: A, C, F, J, O, ?

(A) T **(B)** V
(C) W **(D)** U

Q8. If '+' means '÷', '-' means '×', '×' means '-', and '÷' means '+', find the value of: 40 + 5 - 4 ÷ 10 × 8 = ?

(A) 32
(B) 30
(C) 34
(D) 36

Q9. Which Venn diagram best represents: Vertebrates, Birds, Parrots?

(A) Three mutually intersecting circles
(B) Concentric circles: Parrots inside Birds inside Vertebrates
(C) Two intersecting circles inside a third circle
(D) Three disjoint circles

Q10. Seismograph : Earthquake :: Hygrometer : ?

(A) Atmospheric Humidity
(B) Atmospheric Pressure
(C) Wind Velocity
(D) Ocean Depth

Q11. Find the missing number in the sequence: 2, 10, 30, 68, 130, ?

(A) 216
(B) 220
(C) 228
(D) 222

Q12. What is the reflection of the time 8:20 in a flat vertical mirror?

(A) 4:40
(B) 3:20
(C) 3:40
(D) 4:20

Q13. Six people P, Q, R, S, T, and U sit in a circle facing inward. P is opposite S. R is between P and Q. T is between S and U. Who sits opposite Q?

(A) T
(B) U
(C) R
(D) P

Q14. Identify the related number: 14 : 196 :: 17 : ?

(A) 289
(B) 279
(C) 299
(D) 269

Q15. Find the odd pair of numbers: (12, 72), (14, 98), (16, 128), (18, 150)

(A) (12, 72)
(B) (14, 98)
(C) (16, 128)
(D) (18, 150)

Q16. If 15th August of a certain year was Friday, what day was 15th September of the same year?

(A) Tuesday
(B) Sunday
(C) Monday
(D) Saturday

Q17. Statements: All tigers are cats. Some cats are pets. Conclusions: I. Some tigers are pets. II. Some pets are cats.

(A) Only I follows
(B) Only II follows
(C) Both follow
(D) Neither follows

Q18. Find the missing number in the matrix: [[6, 7, 85], [4, 9, 97], [5, 8, ?]]

(A) 89
(B) 85
(C) 91
(D) 87

Q19. How many rectangles (including squares) are there in a 2×3 grid?

(A) 12
(B) 15
(C) 20
(D) 18

Q20. Which word cannot be formed from the letters of 'INVESTIGATION'?

(A) STATION
(B) NATION
(C) NATIVE
(D) GIANT

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

Q21. Choose the word that is most nearly SYNONYMOUS to 'CANDID':

(A) Dishonest
(B) Frank
(C) Secretive
(D) Shy

Q22. Choose the word that is most nearly OPPOSITE in meaning to 'AUTHENTIC':

(A) Spurious
(B) Genuine
(C) Accurate
(D) Original

Q23. Identify the correctly spelled word:

(A) Grammer
(B) Gramer
(C) Grammmar
(D) Grammar

Q24. Fill in the blank with the appropriate preposition: The river flows ____ the bridge.

(A) between
(B) among
(C) under
(D) on

Q25. Convert to Passive Voice: 'The storm destroyed several houses.'

(A) Several houses are destroyed by the storm.
(B) Several houses were destroyed by the storm.
(C) Several houses had destroyed by the storm.
(D) Several houses were being destroyed by the storm.

Q26. Convert to Indirect Speech: The teacher said to me, 'Where do you live?'

(A) The teacher asked me where I lived.
(B) The teacher asked me where did I live.
(C) The teacher told me where I lived.
(D) The teacher enquired me where I live.

Q27. Identify the error: 'He did not (A) / knew the answer (B) / to the question (C) / No error (D)'

(A) A
(B) C
(C) D
(D) B

Q28. Choose one word for: 'A person who hates or distrusts mankind'

(A) Philanthropist
(B) Optimist
(C) Misanthrope
(D) Egotist

Q29. Choose the correct meaning of the idiom: 'To cry over spilt milk'

(A) To mourn an animal
(B) To regret uselessly over what cannot be undone
(C) To waste precious liquids
(D) To get angry at simple mistakes

Q30. Fill in the blank: She was prevented ____ attending the examination due to illness.

(A) from
(B) to
(C) with
(D) for

Q31. Identify the antonym of 'FEEBLE':

(A) Weak
(B) Frail
(C) Delicate
(D) Robust

Q32. Choose the grammatically correct sentence:

(A) Neither of the two candidates are suitable for the job.
(B) Neither of the two candidate is suitable for the job.
(C) Neither of the two candidates is suitable for the job.
(D) Neither of candidates are suitable for the job.

Q33. One-word substitution: 'A post for which no salary is paid'

(A) Permanent
(B) Honorary
(C) Temporary
(D) Voluntary

Q34. Choose the synonym of 'METICULOUS':

(A) Careful
(B) Careless
(C) Hasty
(D) Indifferent

Q35. Fill in the blank: If she ____ well, she would have passed the audition.

(A) practices
(B) practiced
(C) would practice
(D) had practiced

Q36. Choose the meaning of the idiom: 'To turn over a new leaf'

(A) To turn a page in a book
(B) To plant new trees
(C) To start behaving in a better way
(D) To change residences

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

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

Q38. Select the appropriate question tag: She rarely complains, ____?

(A) does she
(B) doesn't she
(C) is she
(D) isn't she

Q39. Fill in the blank: He is ____ heir to a huge ancestral property.

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

Q40. Identify the correctly spelled word:

(A) Ocassion
(B) Occassion
(C) Occasion
(D) Occation

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

Q41. What gas is evolved when sodium carbonate reacts with dilute hydrochloric acid?

(A) Hydrogen gas
(B) Carbon dioxide gas
(C) Oxygen gas
(D) Chlorine gas

Q42. What is the chemical formula of Baking Soda?

(A) $NaHCO_3$
(B) $Na_2CO_3 \cdot 10H_2O$
(C) NaOH
(D) $CaOCl_2$

Q43. Which liquid non-metal is reddish-brown in color at room temperature?

(A) Mercury
(B) Iodine
(C) Chlorine
(D) Bromine

Q44. The functional group present in carboxylic acids is:

(A) -CHO
(B) -OH
(C) -COOH
(D) >C=O

Q45. Which cell organelle is known as the 'Powerhouse of the Cell'?

(A) Ribosome
(B) Mitochondria
(C) Endoplasmic reticulum
(D) Golgi apparatus

Q46. The involuntary muscular contraction and relaxation that pushes food along the alimentary canal is called:

(A) Peristalsis
(B) Mastication
(C) Emulsification
(D) Absorption

Q47. Amoeba reproduces asexually by the process of:

(A) Budding
(B) Spore formation
(C) Fragmentation
(D) Binary fission

Q48. In a monohybrid cross between heterozygous tall pea plants (Tt × Tt), what is the genotypic ratio?

(A) 3 : 1
(B) 9 : 3 : 3 : 1
(C) 1 : 2 : 1
(D) 2 : 1 : 1

Q49. The radius of curvature of a concave mirror is 24 cm. Its focal length is:

(A) 24 cm
(B) 12 cm
(C) 48 cm
(D) 6 cm

Q50. The persistence of vision in the human eye lasts for approximately:

(A) 1/16th of a second
(B) 1/10th of a second
(C) 1/25th of a second
(D) 1 second

Q51. Ohm's law defines the relationship between potential difference and current as:

(A) $V = I/R$
(B) $V = I^2R$
(C) $V = R/I$
(D) $V = IR$

Q52. The magnetic field lines around a straight current-carrying wire are:

(A) Parallel straight lines
(B) Hyperbolic curves
(C) Concentric circles centered on the wire
(D) Radial lines directed outward

Q53. The accumulation of non-biodegradable pesticides in increasing amounts along successive trophic levels is:

(A) Eutrophication
(B) Biomagnification
(C) Bioaccumulation
(D) Bioremediation

Q54. Which indicator turns pink in basic solutions and remains colorless in acidic solutions?

(A) Phenolphthalein
(B) Methyl orange
(C) Litmus
(D) Turmeric

Q55. An amalgam is an alloy of any metal with which specific element?

(A) Silver
(B) Gold
(C) Lead
(D) Mercury

Q56. What type of covalent bond exists between the two carbon atoms in ethyne (C2H2)?

(A) Single bond
(B) Double bond
(C) Triple bond
(D) Ionic bond

Q57. The primary function of nephrons in the human kidney is:

(A) Synthesis of bile
(B) Filtration of blood and excretion of urea
(C) Production of blood cells
(D) Absorption of carbohydrates

Q58. Emergency hormone adrenaline is secreted by which endocrine gland?

(A) Adrenal glands
(B) Thyroid gland
(C) Pancreas
(D) Pituitary gland

Q59. When light enters from air into glass, which property of light remains constant?

(A) Wavelength
(B) Speed
(C) Amplitude
(D) Frequency

Q60. Which of the following belongs to the first trophic level in a grassland ecosystem?

(A) Grasshopper
(B) Frog
(C) Green grass
(D) Hawk

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

Q61. Who was the Italian revolutionary who founded the secret society 'Young Europe' in Berne?

(A) Count Cavour
(B) Giuseppe Mazzini
(C) Garibaldi
(D) Victor Emmanuel

Q62. The resolution for the Non-Cooperation Movement was passed in which Congress session in December 1920?

(A) Nagpur Session
(B) Calcutta Session
(C) Madras Session
(D) Lahore Session

Q63. The Great Depression of the global economy began in which year?

(A) 1919
(B) 1939
(C) 1945
(D) 1929

Q64. Which soil is most suitable for cultivating cashew nuts in southern states of India?

(A) Black soil
(B) Alluvial soil
(C) Red laterite soil
(D) Peaty soil

Q65. Nagarjuna Sagar Dam is built across which major river in South India?

(A) Cauvery River
(B) Krishna River
(C) Godavari River
(D) Mahanadi River

Q66. Which of the following is an example of a plantation crop grown extensively in India?

(A) Coffee
(B) Wheat
(C) Gram
(D) Mustard

Q67. Which is the largest bauxite-producing state in India?

(A) Jharkhand
(B) Chhattisgarh
(C) Madhya Pradesh
(D) Odisha

Q68. A system where government power is distributed between a central authority and various constituent units is:

(A) Unitary system
(B) Autocracy
(C) Federalism
(D) Monarchy

Q69. In which country does the Sinhala community constitute a majority of nearly 74% of the population?

(A) Belgium
(B) Sri Lanka
(C) Nepal
(D) Bhutan

Q70. A political party that secures at least 6% of the total votes in an election to the Legislative Assembly of a State and wins at least 2 seats is recognized as a:

(A) State Party
(B) National Party
(C) Regional Coalition
(D) Registered Unrecognized Party

Q71. The average income of a country is also known as:

(A) National Disposable Income
(B) Gross National Product
(C) Net Domestic Product
(D) Per Capita Income

Q72. Which sector of the economy includes banking, insurance, transportation, and tourism?

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

Q73. The central bank of India that supervises all commercial banks and monetary policies is:

(A) State Bank of India
(B) Reserve Bank of India (RBI)
(C) Punjab National Bank
(D) NABARD

Q74. A company that owns or controls production in more than one nation is called a:

(A) Multinational Corporation (MNC)
(B) Domestic Enterprise
(C) State Corporation
(D) Joint Venture

Q75. Who organized the Dalits into the 'Depressed Classes Association' in 1930?

(A) Mahatma Gandhi
(B) Jyotirao Phule
(C) Periyar Ramasamy
(D) Dr. B.R. Ambedkar

Q76. Which non-metallic mineral is known for its excellent dielectric strength and insulating properties in electrical industries?

(A) Bauxite
(B) Limestone
(C) Mica
(D) Gypsum

Q77. Under the Consumer Protection Act 2019, District Consumer Disputes Redressal Commissions entertain complaints up to:

(A) ₹1 Crore
(B) ₹50 Lakh
(C) ₹20 Lakh
(D) ₹10 Lakh

Q78. Power sharing is desirable because it:

(A) Reduces the possibility of conflict between social groups
(B) Concentrates decision-making in few hands
(C) Leads to instability and confusion
(D) Undermines national unity

Q79. Which Indian state has the highest Net Attendance Ratio at the primary and secondary school levels?

(A) Bihar
(B) Uttar Pradesh
(C) Rajasthan
(D) Kerala

Q80. A Self-Help Group (SHG) typically has how many members who pool their small savings regularly?

(A) 50 to 100 members
(B) 5 to 10 members
(C) 15 to 20 members
(D) 100 to 150 members

SECTION V: MATHEMATICS TEST (QUESTIONS 81 – 100)

Q81. If HCF(a, b) = 12 and a × b = 1800, find LCM(a, b):

(A) 120
(B) 150
(C) 180
(D) 160

Q82. Find a quadratic polynomial whose sum and product of zeroes are -3 and 2 respectively:

(A) $x^2 + 3x + 2$
(B) $x^2 - 3x + 2$
(C) $x^2 + 3x - 2$
(D) $x^2 - 3x - 2$

Q83. If the lines represented by $2x + ky = 1$ and $3x - 5y = 7$ are parallel, find k:

(A) 10/3
(B) -3/10
(C) 3/10
(D) -10/3

Q84. Find the value of k for which the quadratic equation $x^2 - 4kx + k = 0$ has equal roots ($k \neq 0$):

(A) 4
(B) 1/2
(C) 1/4
(D) 2

Q85. Find the sum of the first 20 terms of the AP: 5, 8, 11, 14, ...

(A) 650
(B) 670
(C) 690
(D) 700

Q86. Find the distance of the point P(3, 4) from the origin:

(A) 5 units
(B) 7 units
(C) 25 units
(D) 1 unit

Q87. If $\sin\theta = 1/2$, find the value of $(3\cos\theta - 4\cos^3\theta)$:

(A) 1
(B) 1/2
(C) $\sqrt{3}/2$
(D) 0

Q88. From the top of a 7 m high building, the angle of elevation of the top of a cable tower is 60° and the angle of depression of its foot is 45°. The height of the tower is:

(A) 7(√3 - 1) m
(B) 14√3 m
(C) 7(√3 + 1) m
(D) 7√3 m

Q89. In a circle of radius 5 cm, the length of a chord 3 cm away from the centre is:

(A) 4 cm
(B) 8 cm
(C) 6 cm
(D) 10 cm

Q90. If the perimeter of a semi-circular park is 72 m, find its radius (take π = 22/7):

(A) 14 m
(B) 7 m
(C) 21 m
(D) 28 m

Q91. The curved surface area of a right circular cylinder of height 14 cm is 88 cm^2. Find the diameter of its base:

(A) 1 cm
(B) 4 cm
(C) 3 cm
(D) 2 cm

Q92. If the mode of a frequency distribution is 24 and the mean is 60, find the median using empirical relationship:

(A) 36
(B) 52
(C) 48
(D) 42

Q93. A card is drawn from a well-shuffled deck of 52 cards. What is the probability of getting a black king?

(A) 1/13
(B) 1/26
(C) 1/52
(D) 2/13

Q94. Two dice are thrown together. What is the probability of getting a doublet (same number on both dice)?

(A) 1/6
(B) 1/12
(C) 1/36
(D) 1/4

Q95. How many multiples of 4 lie between 10 and 250?

(A) 59
(B) 61
(C) 58
(D) 60

Q96. The point which divides the line segment joining (1, 3) and (4, 6) in the ratio 2:1 internally has coordinates:

(A) (2, 4)
(B) (3, 4)
(C) (3, 5)
(D) (2, 5)

Q97. Evaluate: tan 15° · tan 25° · tan 65° · tan 75° = ?

(A) 0
(B) 1
(C) √3
(D) 1/√3

Q98. A solid metallic sphere of radius 6 cm is melted and recast into small cones of radius 1 cm and height 2 cm. Find the number of cones formed:

(A) 432
(B) 216
(C) 144
(D) 288

Q99. If the mean of the numbers 27, 31, 89, 107, x is 65, find the value of x:

(A) 68 **(B)** 75
(C) 73 **(D)** 71

Q100. Three unbiased coins are tossed together. What is the probability of getting exactly two tails?

(A) 1/8 **(B)** 1/2
(C) 3/8 **(D)** 5/8

OFFICIAL ANSWER KEY — DAILY PRACTICE SET 04 (100 MCQS)

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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