

राष्ट्रीय प्रतिभा खोज परीक्षा

NATIONAL TALENT SEARCH EXAMINATION

Learn about the Tests

विद्यया ऽ मृतमश्नुते



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Learn about the National Talent Search Tests

The National Talent Search Examination will be conducted for students studying at the Class X level. The examination consists of tests, namely Mental Ability Test (MAT) and Scholastic Aptitude Test (SAT). The items in the MAT and SAT are multiple choice questions. Each question has four alternatives. The candidate has to select one correct answer from the given alternatives and mark its number in the answer-sheet as per instructions given on the answer sheet. Each correct answer carries one mark. Thus, the total score of a candidate in a test is equal to the number of questions answered correctly by him/her.

The number of questions, maximum marks and time allowed are as follows:

Test	No. of Questions	Maximum Marks	Time
(i) Mental Ability Test	50	50	45 minutes
(ii) Scholastic Aptitude Test			
a) Language Test	50	50	45 minutes
b) Sciences, Mathematics & Social Sciences	100	100	90 minutes

To acquaint the candidates with the tests, some sample questions in each i.e. MAT and SAT are given. The questions will give the candidate, a feel of the nature and the level of the questions expected in the test.

Mental Ability Test (MAT)

This test is given to the candidates to judge their power of reasoning, ability to think, ability to judge, evaluate or discriminate, ability to visualize in the space, spatial orientation, etc. A variety of questions, for example: analogies, classification, series, pattern perception, hidden figures, coding-decoding, block assembly, problem solving etc. are used for this purpose.

Sample Questions for Mental Ability Test (MAT)

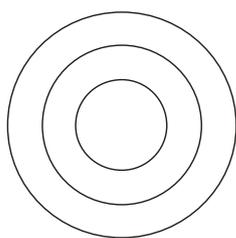
1 In a certain code, MONKEY is written as XDJMNL. How is TIGER written in that code?

1. QDFHS
2. SDFHS
3. SHFDQ
4. UJHFS

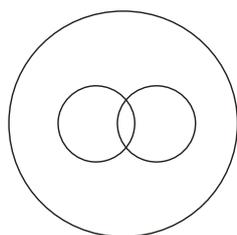
2 In a queue Rekha is 9th from the back. Geeta's place is 8th from the front. Rimya is standing between two. What could be the minimum number of girls standing in the queue?

1. 12
2. 14
3. 16
4. 18

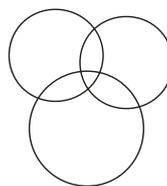
3 Which one of the four diagrams given below represents school, teachers and students?



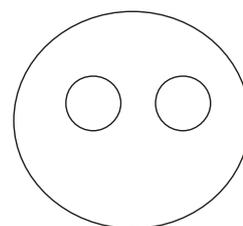
1



2



3



4

Sample Questions for Scholastic Aptitude Test (SAT)

LANGUAGE TEST

Language Test is designed to judge the power of reading comprehension, logical sequencing; interpretative, evaluative, predictive and creative components of language. **The candidates may please carefully note that language test is to be attempted either in English or in Hindi (as per option of the candidate) in the national level NTSE.**

Sample Questions in English Language

- I. Read the following passage about the people of Coorg and answer the questions that follow.

The fiercely independent people of Coorg are possibly of Greek or Arab descent. As one story goes, a part of Alexander's army moved south along the coast and settled here when return became impractical. These people married amongst the locals and their culture is apparent in the martial traditions, marriage and religious rites, which are distinct from the Hindu mainstream. The theory of Arab origin draws support from the long, black coat with an embroidered waist-belt worn by the Kodavus known as *kuppia*, it resembles the *kuffia* worn by the Arabs and the Kurds.

1. The word 'possibly' means...
 1. The writer has good reasons to believe that the Coorgs are of Greek or Arab descent.
 2. The writer is not sure.
 3. The writer is stating a fact.
 4. The writer says that it is unlikely.
2. Return became 'impractical' means
 1. The Greeks could not go back.
 2. The Greeks wanted to stay back.
 3. They found it difficult to go back.
 4. They found it frivolous to go back.
3. 'distinct from the Hindu mainstream' means
 1. Clear
 2. Differentiated
 3. Similar
 4. Obscure
4. The Arab origin of the Coorg *implies*
 1. How the Arab originated
 2. How the idea that the Coorgs are of Arab origin originated
 3. How a theory originated among Arabs
 4. Living in Coorg is same as living in Iraq

5. Find the adjective that describe the Coorg

1. Independent
2. Impractical
3. Protective of their identity
4. Distinct

II. The following five sentences come from a paragraph. First and last sentences are given. Choose from the given three sentences (P,Q,R) the order in which they appear to complete the paragraph.

S1 Many new government buildings in Delhi will have cool roofs

S2 _____

S3 _____

S4 _____

S5 A white wash of a dark roof is one cheap and simple option.

P This will help reduce energy use by air conditioners.

Q They will reflect sunlight and heat unlike conventional dark ones.

R Cool roofs do not require high level 'rocket technology'.

Choose from the option given below.

1. PQR
2. RQP
3. QPR
4. PRQ

III. Rearrange the words into meaningful sentences.

1. /we / since / my brother / in this place / have been living /was born. /

2. /are /many ways / theorem /where /a mathematical / can be/ proved./

3. /on/stay/ their seats / passengers/ has opened / conductor / door / requested/ are/ the /
until/ the /

4. / before / diseases / known / 18th century / some / not / were / of / these / the/ common/

5. /cancer/ her / had / family/ knew/even/Anand/ but / did not / tell / he /his/

IV. Find the word which best completes the sentence.

1. Apart from the _____ cough and cold, I have been remarkably healthy all my life.
 1. odd
 2. opportune
 3. irregular
 4. timely

2. Our hosts had prepared a _____ meal with five courses to celebrate our arrival.
 1. Generous
 2. profuse
 3. lavish
 4. extraordinary

V. There are different names for the word 'storm' depending on their nature. Choose from the box below which suits the definition of the word.

1. A violent tropical storm in which strong winds move in a circle.
2. An extremely strong wind.
3. A violent tropical storm with very strong winds.
4. A violent storm whose centre is a cloud in the shape of a funnel.
5. A violent storm with very strong winds, especially in the western Atlantic ocean.
6. A very strong wind that moves very fast in a spinning movement and causes a lot of damage.

- | |
|--|
| <ol style="list-style-type: none">a. Galeb. Whirlwindc. Cycloned. Hurricanee. Tornadof. Typhoon |
|--|

VI. Choose the correct phrase from the given options to complete the sentences.

1. It requires such depth of oppression _____

1. not to create a fear.
2. to create such heights of character.
3. for a free country.
4. to lead to unpleasantness.

2. Courage was not the absence of fear _____

1. but the triumph over it.
2. but the fight over it.
3. but the feel of it.
4. but an act of self preservation.

हिन्दी भाषा में नमूना प्रश्न

I. निर्देश - नीचे दिए गए गद्यांश को पढ़कर सबसे सही विकल्प का चयन कीजिए -5 अंक

धीरे-धीरे सब कुछ बदल रहा है। एक नयी जीवन-शैली अपना वर्चस्व स्थापित कर रही है। उसके साथ आ रहा है एक नया जीवन-दर्शन-उपभोक्तावाद का दर्शन। उत्पादन बढ़ाने पर ज़ोर है चारों ओर। यह उत्पादन आपके लिए है; आपके भोग के लिए है, आपके सुख के लिए है। 'सुख' की व्याख्या बदल गई है। उपभोग-भोग ही सुख है। एक सूक्ष्म बदलाव आया है नई स्थिति में। उत्पाद तो आपके लिए हैं, पर आप यह भूल जाते हैं कि जाने-अनजाने आज के माहौल में आपका चरित्र भी बदल रहा है और आप उत्पाद को समर्पित होते जा रहे हैं।

1. '...और आप उत्पाद को समर्पित होते जा रहे हैं।' में समर्पित होने का क्या भाव है?

1. उत्पाद की पूजा करना
2. स्वयं उत्पाद बन जाना
3. बहुविज्ञापित चीज़ों को हो खरीदना
4. उत्पाद को बढ़ावा देना

2. जीवन-दर्शन किसकी ओर संकेत करता है -

1. जीवन को देखना
2. दार्शनिक होना
3. जीवन के प्रति नज़रिया
4. भोगवादी दर्शन

3. 'उत्पादन बढ़ाने पर ज़ोर है चारों ओर' - इस वाक्य के संदर्भ में निम्नलिखित में से कौन-सी टिप्पणी सबसे अधिक उपयुक्त है?

1. यह वाक्य अर्थ देने में असमर्थ है
2. यह वाक्य नया अर्थ देता है
3. इस वाक्य में शब्दक्रम बलदता है
4. यह वाक्य भाषायी विसंगति से युक्त है

4. निम्नलिखित में से किसी एक से खाली स्थान को भरिए - '..... के अलावा उपभोक्तावादी दर्शन के कारण बहुत कुछ बदल रहा है।'

1. सुख की व्याख्या
2. उत्पाद की प्रधानता
3. जीवन जीने का सलीका
4. विचार और रहन-सहन

5. 'वर्चस्व स्थापित करना' से क्या तात्पर्य है -

1. सबको वश में कर लेना
2. प्रचार-प्रसार करना
3. दबदबा बनाना
4. सबके वश में हो जाना

II. निर्देश-एक अनुच्छेद के वाक्यों का क्रम बदला गया है। वाक्यों के सही क्रम के लिए उचित विकल्प का चयन कीजिए -

(क) जिससे स्कूल और शिक्षकों को इस आंदोलन में

(ख) आयोजित किए जा सकते हैं,

(ग) जिला और राज्य स्तर पर भी

(घ) सहभागिता के लिए प्रेरित किया जा सके।

(ड.) राष्ट्रीय स्तर पर बड़े विज्ञान एवं तकनीकी मेले, समुदाय

1. (ग), (ड.), (क), (घ), (ख)
2. (क), (ग), (घ), (ख), (ड.)
3. (ख), (ड.), (क), (घ), (ग)
4. (ड.), (ग), (ख), (क), (घ)

III. निर्देश - रिक्त स्थान के लिए सही विकल्प का चयन कीजिए -

यज्ञ के लिए प्रज्वलित की गई।

1. आग
2. अग्नि
3. ज्वाला
4. अनल

IV. निर्देश - सबसे उपयुक्त विकल्प का चयन कीजिए -

‘अपनी ढपली अपना राग’ लोकोक्ति के लिए उपयुक्त स्थिति का चयन कीजिए -

1. अपनी बात कहना
2. दूसरों की बात न सुनना
3. दूसरों की बात पर ध्यान न दकर अपनी ही बात कहना
4. दूसरों की बात पर ध्यान न देना

V. निर्देश - सही विकल्प का चयन कीजिए -

‘सु’ उपसर्ग का प्रयोग किस शब्द-समूह के साथ नहीं हो सकता?

1. कन्या, पुत्र, यश
2. कन्या, मन, पुत्र
3. धार, कन्या, यश
4. जल, पारी, पुत्र

VI. ‘सुआगत’ की संधि से कान-सा शब्द बनेगा?

1. सुआगत
2. सुवागत
3. स्वागत
4. स्वआगत

VII. निर्देश-नीचे दिए गए गद्यांश में आए रिक्त स्थान के लिए उचित शब्द का चयन कीजिए -

उसी वर्ष गुरुवर श्री शारदाचरण जी उकील ने देहरादून में ही पेंटिंग क्लास खोल ली थी, मेरे सौभाग्य से। वह बंद हो गई तो मैं 1.सोचता कि कविता और कला की 2.में - जो अब तक मेरी एकांत 3. रही थी, किसी से उसे गरज़ 4.....और अब भी बहुत कुछ वैसी 5.....बात है- अब मैं कहाँ हूँ? 6.आंतरिक दिलचस्पियों से किसी को दिलचस्पी 7.थी और मैं मुँह खोलकर कुछ 8.कह सकता था किसी से। अपने 9.....बड़ों का, गुरुजनों का अदब-लिहाज़, 10.सामने मुँह न खोलना, शायद मेरी घुट्टी में पड़ा था।

- | | | | |
|----------------|------------|-----------|--------------|
| 1. (1) देर | (2) थोड़ा | (3) अकसर | (4) बार |
| 2. (1) क्षेत्र | (2) दुनिया | (3) माहौल | (4) संसार |
| 3. (1) माहौल | (2) संगी | (3) राही | (4) दुनिया |
| 4. (1) नहीं | (2) न | (3) हो | (4) शायद |
| 5. (1) भी | (2) ही | (3) तो | (4) नहीं |
| 6. (1) मेरा | (2) अपनी | (3) मेरी | (4) मुझे |
| 7. (1) ही | (2) नहीं | (3) भी | (4) सी |
| 8. (1) भी | (2) ही | (3) तो | (4) नहीं |
| 9. (1) से | (2) के | (3) में | (4) और |
| 10. (1) उनकी | (2) उनके | (3) अपने | (4) उन्होंने |

Sample Questions for Scholastic Aptitude Test (SAT)

Sample Questions in Social Sciences

- 1 Trace the growth of different strands of National Movement in India in time sequence.
- Establishment of Depressed Classes Association
 - Indian Industrial and Commercial Congress
 - “Purna Swaraj”
 - Non-cooperation and Khilafat Movement
- a, c, d, b
 - d, b, c, a
 - c, a d, b
 - d, c, b, a
- 2 Match the natural vegetation in Column I with the State in Column II

Column I		Column II	
A.	Tropical Evergreen Forest	1.	Rajasthan
B.	Tropical Deciduous Forest	2.	Kerala
C.	Montane Forest	3.	Uttarakhand
D.	Tropical Thorn Forest	4.	Jharkhand

- A2, B1, C3, D4
 - A2, B3, C4, D1
 - A2, B4, C3, D1
 - A4, B2, C3, D1
- 3 Ford Motors, an MNC wants to invest in India for manufacturing automobiles because
- they can hire cheap labour.
 - tax laws are very stringent.
 - industrial licensing policy is applicable.
 - foreign companies are regulated.
- I-B, II-D, III-C, IV-A
 - I-C, II-D, III-B, IV-A
 - I-C, II-B, III-A, IV-D
 - I-A, II-C, III-B, IV-D

- 4 Which of the following situations is the example of violation of the Principle of 'free and fair election'?
1. A candidate openly supports reservation on the caste basis and gets overwhelming support of the voters of a particular caste.
 2. A party promises in its election manifesto that if it wins, it will make a policy to give every household a free TV set.
 3. A Leader declares that if his party forms the government it would waive the loans of small farmers.
 4. A candidate distributes motorcycles to all those who manage more than one hundred votes in his favour.

Sample Questions in Sciences and Mathematics

- 1 An element 'A' reacts with oxygen to form a protective layer of compound 'B'. The component 'B' is also obtained by the reaction of 'A' with rust. The compound 'B' is known to react both with acids and bases. Identify the element 'A'.
 1. Silver
 2. Aluminium
 3. Copper
 4. Magnesium

- 2 In a fight and flight situation, adrenaline hormone is secreted to enable to deal with, the responses include:-
 - A. Increase in blood supply to skeletal muscle and contraction of diaphragm.
 - B. Increase in blood supply to digestive system and contraction of rib muscle.
 - C. Supply of more oxygen to muscle and reduced blood supply to skin.
 - D. Increase in heart beats, breathing rate and increase blood supply to digestive system.
 1. A & D
 2. B & D
 3. B & C
 4. A & C

- 3 A horse pulls a carriage with a force P. Which two among the following statements are correct?
 - a) The carriage also pulls the horse back with a force P.
 - b) Since the carriage pulls the horse back with a equal force P, the system does not move at all.
 - c) The system moves because the horse can hit the ground with its hoofs; the horizontal component of whose reaction is greater than the total frictional and other forces of resistance offered by the ground.
 - d) The acceleration of the horse and the carriage are unequal.
 1. a and b
 2. a and c
 3. a and d
 4. c and d

- 4 ABCD is a quadrilateral, and $AB^2 + BC^2 + CD^2 + DA^2 = AC^2 + BD^2$. Then
1. All angles of ABCD are equal.
 2. All sides of ABCD are equal.
 3. ABCD must be a parallelogram.
 4. ABCD is a trapezium.
- 5 There are two cups filled with equal amount of tea and coffee. A spoonful of coffee is first transferred from coffee-cup to the tea-cup and then a spoonful from the tea-cup is transferred to the coffee-cup, then
1. Amount of tea in the coffee-cup is more than the amount of coffee in the tea-cup.
 2. Amount of coffee in the tea-cup is more than the amount of tea in the coffee-cup.
 3. Amount of coffee in the tea-cup is the same as the amount of tea in the coffee-cup.
 4. These amounts cannot be compared unless the volume of spoon and that of the cups are known.