



JEE / NEET / Olympiads / NTSE / Boards



P-TQE 2022

Pinnacle Talent Quest Exam

For Classes 5th to 10th

(Stage-2)

Pinnacle Talent Quest Exam

**SAMPLE TEST
PAPER**

Class 5th



INSTRUCTIONS

Duration: 2 Hours

Maximum Marks: 240

Please read the instructions carefully. You are allotted 5 minutes specifically for this purpose.

Things NOT ALLOWED in EXAM HALL: Blank Paper, clipboard, log table, slide rule, calculator, camera, mobile and any electronic or electrical gadget. If you are carrying any of these, then keep them at a place specified by invigilator at your own responsibility.

I. General Instructions

1. This Booklet is your question paper. Don't break the seal of booklet until the invigilator instructs to do so.
2. The answer sheet (ORS) is provided to you separately which is a machine readable optical response sheet. You have to mark your answers in the ORS by darkening bubbles as per your answer choice, by using black or blue ball point pen.
3. This question paper contains three sections as follows:
 - a) **Section - A** contains total 30 questions (Q. No. 1 to 30), 10 each of Physics, Chemistry & Biology, which have only one correct answer.
 - b) **Section - B** contains total 10 questions (Q. No. 31 to 40) of Mathematics, which have only one correct answer.
 - c) **Section - C** contains total 20 questions (Q. No. 41 to 60) of Mental Aptitude.

Part-1: This part contains 10 Logical Puzzles which have only one correct answer.
Part-2: This part contains 10 Mathematical Puzzles, which have the answer from 000 to 999.
4. Rough spaces are provided for rough work inside the question paper. No additional sheets will be provided for rough work.
5. If you are found involved in cheating or disturbing others, then your ORS will be cancelled.

II. Filling of OMR Sheet

1. Ensure matching of OMR sheet with the Question paper before you start marking your answers on OMR sheet.
2. On OMR sheet, darken the appropriate bubble with black/blue pen for each character of your Enrollment No. and your Name, Test Code and other details at the designated places.
3. Think wisely before darkening bubble as there is negative marking for wrong answer. Answer once marked by pen can't be cancelled.
4. Don't put any stain on ORS and hand it over back properly to the invigilator.
5. While attempting integer type questions, integer has to be marked in the following manner. For example, if the answer is 8, it has to be attempted as 008, if the answer is 59, it has to be attempted as 059.

III. Marking Scheme

Questions (1-50)

1. All the questions of **each Part** have only one correct answer.
2. If darkened bubble is **RIGHT** answer: 4 Marks.
3. If darkened bubble is **WRONG** answer: -1 Marks (Minus One Mark).
4. If no bubble is darkened in any question: No Marks.

Questions (51-60)

1. All the questions have integer type answer from 000 to 999.
2. If darkened bubble is **RIGHT** answer: 4 Marks.
3. There is no negative marking in this section.
4. If no bubble is darkened in any question: No Marks.

Please follow the instructions



5th to 10th Class Students GET READY FOR

THE MOST AWAITED & BIGGEST
TALENT QUEST EXAM
OF THE YEAR BY **PINNACLE** IS HERE!



P-TQE 2023

Pinnacle Talent Quest Exam

STAGE - 1 & STAGE - 2



UPTO
100%

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PRIZES

Test Date

Stage-1 2nd Oct & 16th Oct

Stage-2 30th Oct

Registration Details

Register Online
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QR



Registration fee is Rs. 200/-



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JEE MAINS & ADVANCE RESULTS

JEE MAINS RESULT 2022

 AIR 1805 Vishal Garg JEE-Main 99.80	 AIR 1752 Gagan Singla JEE-Main 99.81
 Monit Chawla JEE-Main 98.56	 Bhavansh Singla JEE-Main 98.43
 Vaibhav Mehta JEE-Main 98.37	 Krish Kumar JEE-Main 97.27
 Gurleen Saini JEE-Main 97.00	

JEE MAINS/Adv. RESULT 2021

 IIT-Roorkee Kartikay Ahuja JEE-Advance AIR 3675 JEE-Main %ile 99.42	 IIT-BHU Tanish Chugh JEE-Advance AIR 7533 JEE-Main %ile 98.52	 IIT-Jammu Savneet Kaur JEE-Advance AIR 10552 JEE-Main %ile 98.69
	 PEC-Chd Deepak Gupta JEE-Advance AIR 10274 JEE-Main %ile 99.47	 PEC-Chd Disha Aggarwal JEE-Main %ile 98.59
 PEC-Chd Nakul Garg JEE-Main %ile 98.58	 PEC-Chd Harneet Kaur JEE-Main %ile 97.93	 DTU - Delhi Karan Bansal JEE-Main %ile 97.59
	 PEC-Chd Divyam Jain JEE-Main %ile 97.56	

JEE MAINS/Adv. RESULT 2020

 AIR 1092 Sanchit Garg JEE-Advance AIR 679 JEE-Main 99.94	 AIR 1785 Yadwinder JEE-Advance AIR 1670 JEE-Main 98.88
 IIT-Ropar Tejinder Singh JEE-Advance AIR 7737 JEE-Main 98.80	 DTU-Delhi Rajat Garg JEE-Main 99.69
 IIT-Allahabad Karan Chhabra JEE-Main 6210 99.45	 PEC-Chd Pratham Garg JEE-Main 99.03
	 PEC-Chd Mohit Tuteja JEE-Main 98.16

MEDICAL RESULTS

 Aarchi MBBS, AIMS - Mohali	 Arshdeep MBBS, GMC - Patiala	 Harmandeep Kaur MBBS, SGRD Amritsar	 Satvir Kaur MBBS, GMC - Amritsar
 AIR 1 SNST 2020 Ishatpreet Singh IISER - Mohali	 AIR 336 Gitika AIIMS Delhi Nursing	 AIR 30 Hitakshi B.Ph.T. PGIMER, Cdg	

ADV. OLYMPIADS

 Parth Garg IOQM & IOQA	 Paawan Khurana IOQM
 Vishal Garg IOQC & IOQA	 Krish Jindal IOQA

KVPY

 Nitish Singla Rank - 532
 Vishal Garg Rank - 937

NTSE

 NTSE Scholar Rank Punjab 38 Region Topper
 NTSE Rank Punjab 161

SST OLYMPIAD

 Dhruv Gaba IR - 104	 Dyumn Johar IR - 200
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IMO RESULTS

*IR INTERNATIONAL RANK

 Aashi IR - 8	 Pulkit Kansal IR - 21	 Pranavi Singla IR - 365	 Vrishti Mittal IR - 472	 Pratham Goyal IR - 608	 Dhruv Gaba IR - 654	 Bhavik Kansal IR - 660	 Maanvi IR - 1282
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NSO RESULTS

*IR INTERNATIONAL RANK

 Vrishti Mittal IR - 13	 Pulkit Kansal IR - 67	 Aashi IR - 97	 Pranavi Singla IR - 127	 Dhruv Gaba IR - 133	 Dhruv Mehta IR - 208	 Bhavik Kansal IR - 208	 Prithvi Garg IR - 239	 Divyana Bansal IR - 240	 Drishti IR - 262	 Mishti Gupta IR - 342	 Arshit Goyal IR - 374	 Pratham Goyal IR - 492
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CBSE RESULTS CLASS 12th

 99%	 97.6%	 97%	 97%	 96.6%	 96%	 95.6%	 95.6%	 95.6%
 95.6%	 95.6%	 95%	 95%	 94.2%	 94%	 94%	 95.6%	 93.4%
 Maths- 97	 Maths- 95	 Maths- 95	 Maths- 95	 Maths- 94	 Chemistry-99	 Chemistry-95	 Chemistry-92	 Physics-91

CBSE RESULTS CLASS 10th

 98.6%	 98.2%	 98.2%	 98%	 98%	 97.8%	 97.4%	 97.2%	 97%
 97%	 96.2%	 95.6%	 95.6%	 95%	 94.8%	 94.4%	 94.2%	 94%
 Maths- 100	 Maths- 98	 Maths- 97	 Maths- 94	 Maths- 94	 Science- 96	 Science- 96	 Science- 95	 Science- 94

What Makes Pinnacle Unique?

- 1 Best Faculty Team
- 2 Hi-Tech Classrooms
- 3 Customized Study material
- 4 Personal Attention
- 5 Unlimited Doubt Sessions
- 6 Best Testing Methodology



Lecture
Recording
Lab



Revision
Classes &
Self Study
Zones



Online Testing
Lab (CBT)



Smart & AC
Classrooms



Objective +
Subjective



Student
Performance
and
Analysis Report



Rich Library &
Researched
Study
Modules



Extra Support
to weaker
students



CCTV
Campus



Biometric
Attendance

Classroom Program

1 Comprehensive Classroom Lectures

All classes at Pinnacle are conducted by highly qualified and experienced faculty members, mostly IITians. Each chapter is started at the grass root level and is dealt to an extent which is the requirement of competitive examinations, with an aim of enabling the students to develop a comprehensive view of the whole chapter with a thorough understanding.



Doubt Clearance 2

"If you ask a question, you may appear fool for some time, but if you don't, you'll remain a fool for whole life." System at Pinnacle encourages all students to ask their doubts and questions.

3 Regular Tests Online and Offline

As JEE Mains and Advanced have gone completely online and NEET is in the pipeline, we have launched a dedicated online testing platform where students can practise over CBT (Computer Based Tests). The combination of online and offline testing modes based on latest JEE/NEET patterns ensure that students are at par with the recent changes. Students can check their test reports and performance analysis via a unique online login ID. Their results are also communicated to parents via SMS.



Addressing the Board Exam 4

Pinnacle has a very distinct methodology for preparing the students for competitive examinations while in full synchronization with Board Exams as well. Board level tests are conducted alongside the regular JEE/NEET tests and the copies are graded at very meticulous level by teachers. Students receive methodological tips so as to perform excellent in the board Exams as well.

Section - A
Science

1. Deer have eyes on the sides of the head to.
(a) Look around
(b) Judge distance
(c) See in the dark
(d) Make out shapes
2. Identify the correct one :
(a) 26 kgs
(b) 26 kgs
(c) 26 Kg
(d) 26 kg
3. Instrument(s) used for measuring mass is/are :
(a) Spring balance
(b) Beam balance
(c) Both (A) and (B)
(d) Both (A) and (B)
4. 1000th part of 1 km is called :
(a) decimetres
(b) metres
(c) centimetres
(d) decametres
5. Which of the following is the fastest mode of transport ?
(a) Bicycle
(b) Car
(c) Tonga
(d) Aeroplane
6. Discovery of _____ made the transport easy :
(a) Fire
(b) Stone tools
(c) Wheel
(d) Bullock cart
7. Which of the following activities does not require the presence of air?
(a) Paragliding
(b) Kite flying
(c) Inflating a tyre
(d) Swimming
8. Air is used to play many musical instruments such as
(a) mouthorgan and trumpet
(b) harmonium and flute
(c) mouthorgan and flute
(d) all of these
9. Quantity that can be measured is called :
(a) Physical quantity
(b) Unit
(c) Measurement
(d) Motion
10. At any given time, different parts of the earth experience different seasons. Apart from the earth's revolution around the Sun. Which of these is the reason for this?
(a) The Earth's rotation
(b) The elliptical shape of the Earth's orbit
(c) The presence of the moon
(d) The tilt of the Earth's axis of rotation
11. Which of the following is a gaseous pollutant ?
(a) Sulphur dioxide
(b) Sewage
(c) Pesticides
(d) Pencil shavings
12. The process of changing water into ice is called
(a) sublimation
(b) evaporation
(c) freezing
(d) precipitation
13. The SI unit of mass is :
(a) Gram
(b) Kilogram
(c) Milligram
(d) Pound
14. The SI unit of time is
(a) minute
(b) second
(c) hour
(d) none of these
15. The layer of air that covers the surface of Earth is known as
(a) water vapour
(b) oxygen
(c) nitrogen
(d) atmosphere.
16. As a balloon is filled with water, it expands and increases in weight. This shows that water:
(a) has mass
(b) occupies space
(c) is a kind of matter
(d) All of these
17. More amount of salt dissolve in water at a higher temperature. This is because, upon heating
(a) the molecules move faster and farther
(b) the number of molecules decrease causing more space
(c) the molecules become smaller creating more space
(d) all of these
18. Which of the following statements is correct?
(a) Solids have definite shape and volume
(b) Liquids have fixed volume but not definite shape
(c) Gases have definite shape but not definite volume
(d) Both (a) and (b) are correct
19. Which of the following substance is able to sublime?
(a) Carbon dioxide

- (b) Salt
(c) Water
(d) Air
20. The measure of how much material makes up an object is called the _____.
(a) Volume
(b) weight
(c) mass
(d) matter
21. Xerophytes have.
(a) Small roots
(b) Long roots
(c) Broad leaves
(d) Many branches
22. Branch of Biology which is concerned with the inter-relationship between plants and animals is called.
(a) Physiology
(b) Ecology
(c) Anatomy
(d) Morphology
23. When we touch the leaves of a touch-me-not plant, they droop down. This is an example of.
(a) Respiratory process
(b) Response to stimulus
(c) Circulatory system
(d) None of the above
24. Pectoral girdle is present in –
(a) Hand
(b) Shoulder
(c) Waist
(d) Leg
25. Milk : Volume : : Vegetables : ? : : Fever : Temperature
- (a) Area
(b) Volume
(c) Length
(d) Mass
26. World Water day is celebrated on -
(a) 22nd march
(b) 24th march
(c) 28th February
(d) 1th march
27. The body is able to move because the muscular system works together with _____ system.
(a) respiratory
(b) skeletal
(c) digestive
(d) circulatory
28. Total number of bones in a new born baby are
(a) 206
(b) 209
(c) 250
(d) 300
29. Which of the following is a communicable disease?
(a) Obesity
(b) Allergy
(c) Anaemia
(d) Typhoid
30. Polio is also called
(a) infantile paralysis
(b) lockjaw
(c) hydrophobia
(d) varicella

Section – B Mathematics

31. Express 0.07 as a fraction
(a) $\frac{7}{10}$
(b) $\frac{1}{70}$
(c) $\frac{7}{100}$
(d) $\frac{1}{700}$
32. 0.0999 as a fraction is
(a) $\frac{999}{10}$
(b) $\frac{999}{100}$
- (c) $\frac{999}{1,000}$
(d) $\frac{999}{10,000}$
33. Which of the following is the smallest decimal?
(a) 0.018
(b) 0.07
(c) 0.074
(d) 0.0054
34. The diagram below shows a list of decimals.
I. 53.760 II. 4.016 III. 2.63
IV. 0.06
Which are the highest and lowest decimal?
(a) I and II
(b) II and III
(c) III and IV
(d) I and IV

35. Which of the following cannot be side of a triangle?
 (a) 2.5 cm, 6.5 cm, 6 cm
 (b) 2 cm, 4 cm, 5 cm
 (c) 2 cm, 3 cm, 5 cm
 (d) 1.5 cm, 2 cm, 2.5 cm
36. Two triangles cannot be proved congruent by
 (a) SAS property
 (b) SSS property
 (c) ASA property
 (d) AAA property
37. If 20 is added to four times a certain number, the result is 5 less than five times the number. The number is
 (a) 10
 (b) 15
 (c) 20
 (d) 25
38. Two numbers are in the ratio 3 : 5. If the sum of the numbers is 184, find the difference between the numbers.
 (a) 24
 (b) 28
 (c) 48
 (d) 46
39. Usual form of 7.54×10^{-6} is –
 (a) 0.000000754
 (b) 0.000754
 (c) 0.0000754
 (d) 0.00000754
40. In $\triangle ABC$, If $AB = BC$ and $\angle B = 80^\circ$ then $\angle C =$
 (a) 50°
 (b) 100°
 (c) 130°
 (d) 60°

Section – C Mental Aptitude

Part-I (Logical Puzzles)

Directions (Q. No.1 to 2): Study the following information carefully and answer the questions given below:

Raman starts driving from point A and drives 12 km towards north. He takes a right turn and drive 20 km. He now drives 8 km after taking a left turn. Finally he takes a left turn; and drives 20 km and stops at point B.

41. How far is point A with respect to point B?
 (a) 18 km (b) 20 km (c) 35 km (d) 25 km
42. Towards which direction does Raman move before stopping at point B?
 a. Northwest (b) South (c) Southeast (d) West
43. If each of the consonants of the word CONCLUDED is substituted by the letter preceding it and each vowel is substituted by the letter following it, which of the following letters would have the same letter on either side?
 a. V (b) B (c) K (d) F
44. If all the letters in the word PURCHASED are arranged as they appear in the English alphabetical order, then the position of how many letters will remain unchanged after the rearrangement?
 a. One (b) Two (c) Three (d) Four
45. In a certain code 'KITE' is written as '2925' and 'MANY' is written as '4157'. How is 'SEAR' written in that code?
 a. 1519 (b) 9151 (c) 8519 (d) 9518
46. How many pairs of letters are there in the word 'PROBLEM' each of which has as many letters between them in the word, as they have between them in the English alphabet?
 a. One (b) Two (c) Three (d) More than three \
47. If it is possible to make only one meaningful word with the 2nd, 5th, 8th and 13th letters of the word 'CONTRADICTION', using each letter only once, which of the following will be the 3rd letter of that word? If no

such word can be made, your answer is 'X' and if more than such word can be made, your answer is Z.

- a. O (b) X (c) Z (d) I

Directions (Q.No. 8 to 12): Study the following information carefully and answer the questions given below:

Six members of a family – P, Q, R, S, T and V – pursue one of the given professions, viz. Psychologist, Manager, Advocate, Jeweler, Doctor, and Engineer, but not necessarily in the same order.

(i) The Doctor is the grandfather of V who is a Psychologist.

(ii) S, who is the Manager, is married to P.

(iii) R, who is the Jeweler, is married to the Advocate.

(iv) Q is mother of T and V.

(v) There are two married couples in the family

48. How many males are there in the family?

- (a) Two (b) Three (c) Four (d) Cannot be determined

49. What is the profession of P?

- (a) Advocate (b) Engineer (c) Manager (d) Doctor

50. How P is related to T?

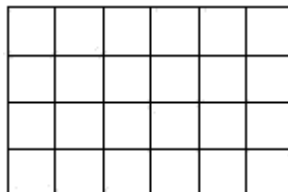
- (a) Father (b) Wife (c) Grandfather (d) Grandmother

Part-II (Mathematical Puzzles)

51. A monkey wants to climb a 100 meter high tree. Every minute it jumps 5 meter but the next minute it slips 3 meter. After how many minutes will the monkey reach the top of the tree?

52. You have 8 black socks, 14 white socks and 18 grey socks in your drawer. The room is completely dark and you have no source of artificial light. What is the minimum number of socks that you'll have to pick up to ensure that you have a correct pair (a pair of same coloured socks)?

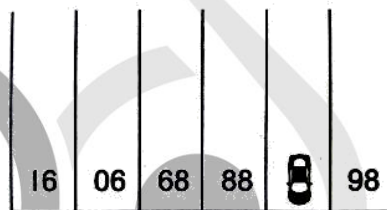
53. How many squares are there in the 6X4 grid shown below (Each individual grid has dimensions 1X1)



54. A shopkeeper came up with a unique scheme to increase his sales. He offered to give 1 toffee in return for 7 toffee wrappers. If you have 200 such wrappers, how many toffees can you eat using them?

55. A 48 page newspaper is made of 12 large sheets of paper such that the sheets are kept one above the other and then folded in half. As a result, the first sheet contains pages 1, 2, 47, 48. If a sheet containing page number 33 is missing, then find the sum of other missing pages?

56. Each child in a family has at least 2 brothers and 2 sisters. Let the family has smallest possible number of children satisfying the above mentioned constraint. Each child in the family meet each other and every child shakes hand with other child only once. How many handshakes will be there?
57. Last year in a soccer knockout tournament 63 matches were played in all. The participating team are divided into pairs and played against each other and the team losing a match got knocked off and the remaining teams are paired up again. How many teams participated in the tournament?
58. If you write numbers from 1 to 1000, which digit have you written maximum number of times?
59. There is a car parked below. Can you identify the parking number of that car?



60. Find number of triangles in the given figure

