

SAMPLE TEST PAPER ·

Resonance National Entrance Test (ResoNET)

For Pre-foundation Career Care Programmes (PCCP)

FOR CLASS IX/ WISDOM/ SHARP



Practice, Persistence and Performance



IMPORTANT INSTRUCTIONS

GENERAL INSTRUCTIONS

- 1. This booklet is your Question Paper.
- 2. Blank papers, clip boards, log tables, slide rule, calculators, mobile or any other electronic gadgets in any form are not allowed to be used.
- 3. Write your Name & Application Form Number in the space provided in the first page of this booklet.
- **4.** No rough sheets will be provided by the invigilators. All the rough work is to be done in the blank space provided in the question paper.
- 5. No query related to question paper of any type is to be put to the invigilator.

INSTRUCTIONS FOR OPTICAL RESPONSE SHEET (ORS)

- > Darken the appropriate bubbles on the original by applying sufficient pressure.
- > The original is machine-gradable and will be collected by the invigilator at the end of the examination.
- Do not tamper with or mutilate the ORS.
- > Write your name, Application form number and the name of the examination centre and sign with pen in the space provided for this purpose on the original. **Do not write any of these details anywhere else**. Darken the appropriate bubble under each digit of your roll number.
- Before answering the paper, fill up the required details in the blank space provided in the Objective Response Sheet (ORS).
- > Do not forget to mention your paper code and **Application Form Number** neatly and clearly in the blank space provided in the Objective Response Sheet (ORS) / Answer Sheet.
- > Use a **BLACK BALL POINT** to darken the bubbles in the upper sheet.
- Darken the bubble COMPLETELY.
- > Darken the bubble **ONLY** if you are sure of the answer.
- The correct way of darkening a bubble is as shown here :
- > There is **NO** way to erase or "un-darkened bubble.
- The marking scheme given at the beginning of each section gives details of how darkened and not darkened bubbles are evaluated.

Marks distribution of questions is as follows.

| | | Reso NET | | | | |
|----------|----------------------------|-------------------------------|---------------------|-----------|---|-------------|
| S.No. | Subject | Nature of Questions | No. of Questions | arks to b | | ed Total |
| 1 to 25 | PART-I (Maths) | Single Choice Questions (SCQ) | 25 | 3 | 0 | 75 |
| 26 to 35 | PART-II (Physics) | Single Choice Questions (SCQ) | 10 | 3 | 0 | 30 |
| 36 to 45 | PART-III (Chemistry) | Single Choice Questions (SCQ) | 10 | 3 | 0 | 30 |
| 46 to 55 | PART-IV (Biology) | Single Choice Questions (SCQ) | 10 | 3 | 0 | 30 |
| 56 to 70 | PART-V (Mental Ability) | Single Choice Questions (SCQ) | 15 | 3 | 0 | 45 |
| | | Total | 70 | | | 210 |

Zero marks '0' If none of the options is chosen (i.e. the question is unanswered).







VISION

Excellence in Career Education



MISSION

Practice, Persistence and Performance



VALUES

- Leadership with humane touch at various levels
- Integrity, transparency and openness in all our actions
- Innovation and pursuit of excellence in career education
- Address the needs of students through career oriented initiatives
- Strive to continuously improve our processes and quality of deliverables

R.K. Verma (RKV Sir)

B.Tech. (IIT-Madras, 1994)
Founder | Managing Director
Head (Academics) | Sr. Faculty (Physics)

About Resonance:

Place : Kota (Rajasthan) Established on: 11th April, 2001

| S.No. | Academic Division | Classes | Target Examinations |
|-------|------------------------------------------------------|--------------------------|------------------------------------------------------------------------------------------------------------------|
| 1. | Pre-Engineering Division: JEE (Advanced) | IX, X, XI, XII & XII+ | JEE (Advanced) JEE (Main) Olympiads |
| 2. | Pre-Engineering Division: JEE (Main) | IX, X, XI, XII & XII+ | JEE (Main) Other Engineering Entrance Exams |
| 3. | Pre-Medical Division | IX, X, XI, XII & XII+ | NEET (UG) Olympiads |
| 4. | Pre-foundation Career Care Programme Division (PCCP) | V, VI, VII, VIII, IX & X | School & Board Exams NTSE Olympiads STSE |
| 5. | Commerce & Law Programme Division (CLPD) | XI, XII & XII+ | CA CS CLAT Board CUET (UG) UG & PG |
| 6. | Pre-university & School Preparatory Division (PSPD) | XI, XII & XII+ | Board Exams CUET-UG IPMAT JIPMAT BITSAT STSE UCEED College Entrance Exam UG & Scholarship Exams |
| 7. | Resonance Multiple Examination Division (ResoMEx) | XII+ UG & PG | SSC BANKS RAILWAYS NDA Other Govt. & Private Recruitment Exams |
| 8. | Distance Learning Programme Division (DLPD) | V to XII & XII+ | JEE (Main) JEE (Advanced) NEET (UG) OLYMPIADS PRE-FOUNDATION OTHERS |
| 9. | EdTech Division | V to XII & XII+ | JEE (Main) JEE (Advanced) NEET (UG) PRE-FOUNDATION |
| 10. | Resonance International Studies Division (Reso-ISD) | VI to XII & XII+ | JEE (Main) JEE (Advanced) NEET (UG) OLYMPIADS PRE-FOUNDATION Upcoming: SAT IELTS GRE PTE |



Syllabus of Class-VIII_ Reso NET

Mathematics:

- Squares & Square roots
- Linear equation in one variable
- Rational numbers
- Algebraic identities

- Cubes & Cube roots
- Quadrilaterals
- Algebraic expressions

Physics:

- ForcePressure
- ❖ Friction ❖ Sound wave

Chemistry:

Synthetic fibres and plastics
 Metals and non-metals

Biology:

- Crop production & management
 Micro-Organism friend & foe
- Conservation of plants & animals
 Cellular level of organization

Mental Ability:

- ❖ Number series
 ❖ Alphabet series
- Letter repeating series
 Missing term in figures
- ❖ Mathematical operations ❖ Alphabet test
- Coding-decoding
 Direction sense test
- ❖ Seating arrangement ❖ Blood relations
- ❖ Puzzle test ❖ Venn diagram

- 1. Factorise $x^2 \frac{13}{24}x \frac{1}{12}$
 - (A) $\frac{1}{24}(3x-2)(8x+1)$
 - (B) $\frac{1}{8}$ (3x 2)(8x + 1)
 - (C) $\frac{1}{24}$ (3x + 2)(8x + 1)
 - (D) $\frac{1}{24}(3x-2)(8x-1)$
- 2. What is the remainder when $(x^4 + 1)$ is divided by (x 2)?
 - (A) 17
- (B) 15
- (C)7
- (D) 1
- 3. If $\frac{(a^2b^3c)^4.(abc)^3}{(a^3bc^{-1})^2} = \sqrt{a^mb^nc^p}$ then m + n + p

has the value equal to

- (A)24
- (B) 54
- (C) 27
- (D) 34
- 4. The value of $\sqrt{27} \frac{9}{\sqrt{3}} 4\sqrt{\frac{1}{9}} + 4\sqrt[3]{\frac{1}{27}}$ will 9.

be-

- (A) $\sqrt{3}$
- (B) $2\sqrt{3}$
- (C)0
- (D) $3\sqrt{3}$
- 5. Find three consecutive integers such that four times the first plus one- half the second minus twice the third is equal to 24-
 - (A) 11, 12 and 13
- (B) 12, 13 and 14
- (C) 13, 14 and 15
- (D) 10, 11 and 12

6. What is the difference between the biggest and the smallest fraction among $\frac{2}{3}$, $\frac{3}{4}$, $\frac{4}{5}$

and $\frac{5}{6}$?

- (A) $\frac{1}{6}$
- (B) $\frac{1}{12}$
- (C) $\frac{1}{20}$

7.

- (D) $\frac{1}{30}$
- What number should be subtracted from -5 to get $\frac{8}{9}$.
 - (A) $\frac{-53}{9}$
- (B) $\frac{37}{9}$
- (C) $\frac{9}{37}$
- (D) $\frac{-9}{37}$
- 8. Let n be a 3 digit number such that n = sum of the squares of the digits of n. The number of such n is
 - (A)0
- (B) 1
- (C)2
- (D) More than 2

The ratio of a two digit number and the sum of its digits is 4 : 1. IF the digit in the units place is 3 more than the digit in the tens place, then the number is.

- (A)24
- (B) 36
- (C) 27
- (D) 34

0. If
$$\frac{p}{q} = 1 + \frac{5}{1 + \frac{4}{1 + \frac{3}{1 + \frac{1}{2}}}}$$
 where p, q have no

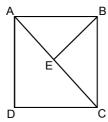
common factors, then p + q

- (A)29
- (B) 36
- (C) 27
- (D) 34

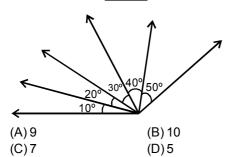
11. x is $1\frac{1}{6}$ of $3\frac{3}{4}$ and y is $2\frac{1}{3}$ of $2\frac{1}{6}$.

Then

- (A) 2x = y
- (B) y < x
- (C) x < y
- (D) x = y
- 12. ABCD is a square \angle ABE = 2 \angle DAE= 30°. The sides of the square are 10 cm each. Then the length EC is

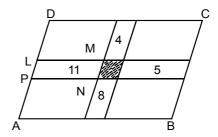


- (A) greater than 10 cm.
- (B) equal to 10 cm
- (C) Less than 10 cm
- (D) NOt possible to calculate with the given information
- **13.** The number of acute angles formed by the rays at the vertex P is _____



- **14.** Find fraction form of rational number 0.37
 - (A) $\frac{37}{100}$
- (B) $\frac{400}{95}$
- (C) $\frac{433}{99}$
- (D) $\frac{100}{33}$

In the adjoining figure ABCD is a parallelogram of perimeter 21. It is subdivided into smaller parallelograms by drawing lines parallel to the sides. The numbers shown are the respective perimeters of the parallelograms in which they are marked. (For example the perimeter of the parallelogram LMNP is 11). Find the perimeter of the shaded parallelogram.



(A) 4

15.

- (B)15
- (C) 7
- (D) 12
- 6. If $\frac{p}{a} + \frac{q}{b} + \frac{r}{c} = 1$ and $\frac{a}{p} + \frac{b}{q} + \frac{c}{r} = 0$ then the

value of
$$\frac{p^2}{a^2} + \frac{q^2}{b^2} + \frac{r^2}{c^2}$$
 is :

- (A)0
- (B) -11
- (C)9
- (D) 1
- 17. If a = 2012, b = 2011, c = 2010 then the value of $a^2 + b^2 + c^2 ab bc ca$ is:
 - (A)0
- (B) 2012
- (C)3
- (D) 4024
- 18. Three teams of wood-cutters take part in a competition. The first and the third teams put together produced twice the amount cut by the second team. The second and the third team put together yielded a three-fold output as compared with the first team. Which of the teams won the competition?
 - (A) first team
- (B) second team
- (C) third team
- (D) there is a tie

- 19. In following couples which rational numbers are

 - (A) $\frac{-9}{13}$ and $\frac{8}{-12}$ (B) $\frac{-32}{-40}$ and $\frac{40}{50}$

 - (C) $-\frac{7}{21}$ and $\frac{3}{9}$ (D) $\frac{-8}{-14}$ and $\frac{13}{21}$
- 20. $1.7 \times 1.7 + 0.7 \times 0.7 - 2 \times 1.7 \times 0.7 =$
 - (A)1
- (B) 2
- (C) 0
- (D) 1
- If $\frac{\sqrt{1296}}{x} = \frac{x}{2.25}$ then value of x is 21.
 - (A) 0.9
- (B) 0.09
- (C)9
- (D) 1.9
- 22. Three angles of quadrilateral are in the ratio 3:4:5. The difference of the least and the greatest of these angles is 45°. All the four angles of the quadrilateral are
 - (A) 63°,84°, 105°, 108°
 - (B) 60°,75°,120°, 105°
 - (C) 65°,80°,100°, 110°
 - (D) 85°,95°,100°, 130°
- 23. The diagonals of a parallelogram ABCD intersect at O. If $\angle BOC = 90^{\circ}$ and $\angle BDC =$ 50°, then ∠ACD is
 - $(A) 10^{\circ}$
- (B) 40°
- (C) 50°
- (D)90°
- Multiplicative inverse of $\frac{3}{5}$ is: 24.
 - (A)1
- (C) $\frac{-3}{5}$
- 25. The diagonals of a quadrilateral are equal and bisect each other. The quadrilateral has to be:
 - (A) any parallelogram
- (B) any rectangle
- (C) any trapezium
- (D) any rhombus

- 26 Force is a:
 - (A) Vector quantity
- (B) Scalar quantity
- (C) Both (A) & (B)
- (D) None of these
- 27. On drawing water from a well, a force of is applied on the rope.
 - (A) pull
- (B) push
- (C) push or pull
- (D) none of these
- A camel can walk/run in deserts very easily as 28. compared to horse, donkey etc, because its:
 - (A) feet are smaller
- (B) weight is lesser
- (C) feet are broader
- (D) body is heavier
- 29. The atmosphere exerts a pressure P on the surface of earth. Here P is equal to
 - (A) $1.01 \times 10^5 \text{ Nm}^{-2}$
 - (B) $1.01 \times 10^{-5} \text{ Nm}^{-2}$
 - (C) $1.01 \times 10^7 \text{ Nm}^{-2}$
 - (D) $1.01 \times 10^{-7} \text{ Nm}^{-2}$
- 30. Forces of adhesion are caused due to:
 - (A) Magnetic attractions
 - (B) Gravitational attractrions
 - (C) Electrostatic attractions
 - (D) Frictional forces
- 31. A ball is thrown vertically upwards. Force of friction offered by wind to the ball will act:
 - (A) downwards
 - (B) upwards
 - (C) perpendicular to the direction of motion of force
 - (D) none of these
- 32. The frequency of the object making 10 oscillations in 1 second is equal to
 - (A) 1 Hz.
- (B) 5 Hz.
- (C) 8 Hz.
- (D) 10 Hz.
- 33. We are unable to hear the sound
 - (A) of an electric bell.
 - (B) inside an evacuated glass jar.
 - (C) having frequency of 100 Hz.
 - (D) through water.

| 34. | When we play mridang (A) string. (B) membrane. (C) air-column. (D) whole instrument. | am, we strike the | 43. | An example of physica (A) rusting of iron. (B) dissolution of suga (C) cooking of food. | - |
|------------|----------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------|-----|-----------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------|
| 35. | Sound is produced by which are carried in (A) downward direction (B) opposite direction on (C) upward direction on (D) all directions. | only. nly. | 44. | (D) burning of magnesi Gold is mixed with co (A) make gold soft (B) make gold hard (C) make gold more y | pper to : |
| 36. | Rayon was obtained by of (A) paper. (C) fruit pulp. | the chemical treatment (B) wood pulp. (D) cloth. | 45. | (D) give gold lustre The process of giving a to copper or brass is (A) zinc | |
| 37. | Parachutes and ropes mountain are made of (A) rayon. (C) acrylic. | s used for climbing a (B) polyester. (D) nylon. | 46. | (C) tin Fertilisers are used to they | (D) iron improve crop yields, as |
| 38. | Metals found in free stat (A) solid state. (C) gaseous state. | e are known to be in (B) liquid state. (D) native state. | | (A) are rich in inorgan(B) are rich in organic(C) are rich in humus.(D) are rich in chemic | nutrients. |
| 39. | The thin wire seen inside (A) tungsten. (C) tin. | the bulb is made of (B) nickel. (D) silver. | 47. | idli, dosa, bread, etc., (A) bacteria. | (B) virus. |
| 40. | One of the best solution biodegradable wastes is (A) burning (C) burying | _ | 48. | (C) algae Sepration of chaff fror (A) Winnowing (C) Broadcasting | .(D) yeast. n grains occur through (B) Ploughing (D) None of these |
| 41. 42. | Which of the following able waste: (A) Metal (C) Plastic toys The reaction of acids with | (B) Diamond (D) All | 49. | by following method- (A) Crop-rotation (B) Using weedicides (C) Levelling | f crops make the soil , we can replenish soil |
| | and water is termed as (A) oxidation. (C) neutralization. | (B) reduction.(D) crystallisation. | 50. | (D) PloughingAn unicellular micro-o(A) protozoa.(C) mushroom. | rganism is (B) mould. (D) rhizopus. |



- 51. The first Reserve Forest of India is
 - (A) Satpura national park.
 - (B) Panchmarhi park.
 - (C) Kaziranga sanctuary.
 - (D) Great Biosphere Reserve.
- 52. Removal of weeds is necessary for plant growth because weeds
 - (A) compete with crop for nutrition.
 - (B) cause diseases in crop.
 - (C) delay the harvesting time of the crop.
 - (D) attract the insects and birds towards the crop.
- 53. The simplest protozoan is
 - (A) Amoeba.
- (B) Paramecium.
- (C) Euglena.
- (D) Plasmodium.
- 54. The activity not prohibited in a protected area meant for protection of plants and animals is
 - (A) hunting.
- (B) poaching.
- (C) cultivation.
- (D) tourism.
- 55. Ploughs are used for
 - (A) harvesting.
- (B) tilling.
- (C) irrigation.
- (D) sowing.
- 56. Pointing to a photograph of a girl, Rajan said "She has no sisters or daughters but her mother is the only daughter of my mother." How is the girl in the photograph related with Rajan's mother?
 - (A) Sister-in-law
 - (B) Grand daughter
 - (C) Daughter-in-law
 - (D) Cannot be determined
- **Directions (57):** Read the given information carefully and answer the questions that follow.

Ratan, Anil, Pinku and Gaurav are brothers of Rakhi, Sangeeta, Pooja and Saroj, not necessarily in that order. Each boy has one sister and the names of bothers and sisters do not begin with the same letter. Pinku and Gaurav are not Saroj's or Sangeeta's brothers. Saroj is not Ratan's sister.

- 57 Pooja's brother is
 - (A) Ratan
- (B) Anil
- (C) Pinku
- (D) Gaurav

Directions (58 to 59): Two groups of letters to the left side of the sign :: are associated with each other following same rule. You have to select one group of letters from the given alternative that will replace the sign : and form the same associationship with the group given to the right of sign ::

58. 121:12::25:?

(A) 1

(B)2

(C)6

(D)7

59. 01:08::16:?

(A)25

(B) 125 (D) 27

(C) 64

60. While facing East you turn to your left and walk 10 m; then turn to your left and walk 10 m, and now you turn 45° towards your right and go straight to cover 25 m. Now, in which direction

are you from your starting point?

- (A) North-East
- (B) South-West
- (C) South-East
- (D) North-West
- 61. If rains is called pink, pink is called cloud, cloud is called water, water is called breeze and breeze is called moon. What do you wash your hands with?

(A) Water

(B) Rain

(C) Breeze

- (D) Moon
- In a certain code **DELHI** is written as **29874** 62. CULCUTTA is written as 35835661 then the word CALICUT will be coded as:

(A) 3185463

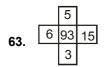
(B) 3184635

(C) 3184563

(D) 3184356



Direction: Find the missing number in figure/series



| | 7 | |
|---|---|---|
| 9 | ? | 5 |
| | 6 | |



- (A) 5 (C) 27
- (B) 19 (D) 89
- **64.** 111, 114, 120, 123, 129, ?
 - (A) 136
- (B) 138
- (C) 141
- (D) 145
- **65.** 0, 6, 20, 42, 72, ?
 - (A) 106
- (B) 112
- (C) 110
- (D) 108
- **66.** Arrange the following group such that when arranged in a specific order, meaningful word is formed.

RACET

1 2 3 4 5

- (A) 1, 2, 3, 4, 5
- (B) 3, 2, 1, 4, 5
- (C) 5, 2, 3, 4, 1
- (D) 5, 1, 2, 3, 4
- **67.** Given interchanges : signs + and × ; numbers 1 and 3.
 - (A) $31 + 34 \times 31 = 1085$
 - (B) $31 + 34 \times 31 = 395$
 - (C) $13 + 34 \times 13 = 195$
 - (D) $31 + 14 \times 13 = 213$

68. Which of the following represents the relationship between animals, elephants and lions?









Directions: (69 to 70)

- (i) J, K, L, M, N, O, P, and Q are sitting in a line facing towards East.
- (ii) J is fourth to the right of N.
- (iii) Q is fourth to the left of M.
- (iv) L and O are not at the ends and are neighours of K and P respectively.
- (v) ${\sf Q}$ is next to the left of ${\sf J}$ and ${\sf J}$ is the neighbour of ${\sf K}$.
- **69.** What is the position of O?
 - (A) To the right of N
 - (B) Next to the right of L
 - (C) Next to the right of M
 - (D) Between P and J
- **70.** Which of the following is true?
 - (A) P is the neighbourer of Q and J
 - (B) L is next to the right of J
 - (C) N is at left end
 - (D) M is next to the left of K

ANSWER KEY

| Ques. | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 | 14 | 15 |
|-------|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|
| Ans. | Α | Α | В | С | Α | Α | Α | Α | В | Α | С | В | Α | Α | С |
| Ques. | 16 | 17 | 18 | 19 | 20 | 21 | 22 | 23 | 24 | 25 | 26 | 27 | 28 | 29 | 30 |
| Ans. | D | С | С | В | Α | С | Α | В | D | В | Α | Α | С | Α | D |
| Ques. | 31 | 32 | 33 | 34 | 35 | 36 | 37 | 38 | 39 | 40 | 41 | 42 | 43 | 44 | 45 |
| Ans. | Α | D | В | В | D | В | D | D | Α | D | D | С | В | В | С |
| Ques. | 46 | 47 | 48 | 49 | 50 | 51 | 52 | 53 | 54 | 55 | 56 | 57 | 58 | 59 | 60 |
| Ans. | Α | D | Α | Α | Α | Α | Α | Α | D | В | В | D | С | В | D |
| Ques. | 61 | 62 | 63 | 64 | 65 | 66 | 67 | 68 | 69 | 70 | | | | | |
| Ans. | С | D | D | С | С | D | В | С | Α | С | | | | | |

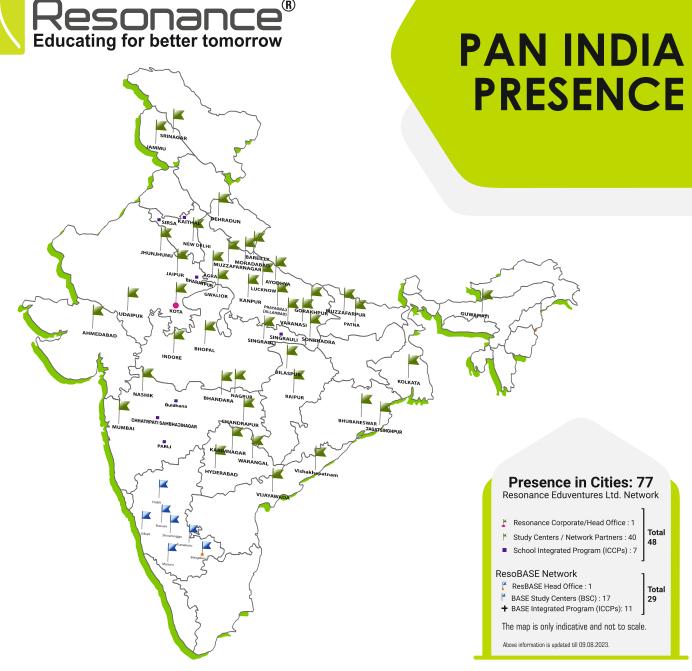




Resonance: The Legacy of 22 Years of Academic Excellence [2001-2023]



| | NTSE SINCE 2006 | 2440 | Scholars |
|---|-----------------------------------|---------------------------|------------------------------------------------|
| | KVPY SINCE 2006 | ▶2859 | ellowship Winners |
| T | OLYMPIADS SINCE 2006 | 5 52 Medalis in Intern | ts (Gold/Silver/ Bronze) national Olympiads |
| | CA & CS SINCE 2013 | 4202 Selections | 5 Times AIR-1 in CA & CS Exams |
| | CLAT, SET & GPTU SINCE 2014 | > 82 Selections | AIR-1 in GPTU |



REGISTERED & CORPORATE OFFICE (CIN: U80302RJ2007PLC024029)

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SCHOOL TIEUPS: Buldana: 9970282821 | Bharatpur: 9414023374 | Chhatrpati Sambhajinagar: 9343959595 | Kaithal: 9992771695 | Parli: 7020205002 | Singrauli NTPC:

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