Resonance®
Educational Institutions
—Telangana & Andhra Pradesh—

**Information Bulletin
RET– 2024
(APPLYING FOR CLASS – VIII)
Currently Studying Class VII**

About RET:
RET (Resonance Eligibility test) is a knowledge and aptitude test which is conducted by Resonance Educational Institutions, Hyderabad to assess the student's current academic performance and prospects. Qualifying RET with 40% marks is minimum criterion for immediate reservation in any coaching program of Resonance in Telugu states.

For JEE and NEET aspiring students RET would provide bench marking along with a real world feel of competitive spirit. It helps the student to showcase his/her talent in competitive exam pattern which will boost his/her confidence to perform well in future competitive examinations & make way for a bright career ahead.

RET will be the student's first step towards fulfilling their dream of becoming an Engineer or Doctor from reputed universities across the India and abroad.

Who can attend RET?
Students currently Studying 5th to 10th Class will be eligible to write RET exam.

How will RET help you?
- Student will get a comprehensive report, covering all domains in terms of subjects and aptitude, along with areas requiring improvement & percentile score.
- RET will evaluate your Analytical Skills & guide you further to improve upon.
- Have a clear & personalised picture of your subject preparation concept wise.
- Qualify for a Resonance Classroom Programmes across all branches in Telugu states.

How to apply for RET?
Students who want to apply for RET can login to www.resonancehyderabad.com and apply by paying registration fee.

Registration Fee:
- Rs. 200/- per student – Payable Online using our secure payment gateway using Internet Banking, Debit/Credit card or any other online payment service
- You can also contact with RET Co-ordination Cell for Registration Assistance on **9121219858 (9 AM to 7 PM)**

RET: Exam Process
RET exam is conducted in offline mode across all Resonance campuses in Hyderabad as per the specific dates mentioned in website.

RET Paper Structure

Subject	Questions from each subject	Total Questions	Total Marks	Test Duration
Physics, Biology, Chemistry, Mathematics and Mental Ability	7 each PCB, 14 Math, 5 MAT	40	160	60 Min (1 Hour)

Question Wise Breakup

Sections	Question Marking (Correct, Wrong, Leave)	Question Types (Medium: English & Hindi)
PBCM & MAT	(+4 Marks for each correct Questions) (No Negative Marking) (Zero Marks for not attempted Questions)	General Science – 21 (7P, 7C, & 7B) Mathematics & MAT -19 (14M, 5MAT)

Syllabus Breakup

Subject	Particulars
Physics	Motion & Measurement (VI) Light (VI) Electricity (VI) Fun with Magnet (VI) Motion & Time Heat Electricity (VII)
Chemistry	Matter and It's segregation (VI) Material of daily use : Clothes (VI) Classification and Diversity in Matter (VI) World of changes (VI) Importance of air, Wind and Cyclone (VI) Water (VI) Common Laboratory apparatus and Equipment's (VII) Acid and Bases (VII)
Biology	Our Food (VI) Getting to know plants (VI) Living organisms and their surrounding (VI) What do animals eat (VI) Body Movements (VI) Nutrition in Plants (VII) Weather – Climate and Adaptations (VII) Nutrition of Animals (VII)
Mathematics	Knowing our numbers (VI) Whole numbers (VI) Playing with numbers (VI) Integers (VI) Fractions & Decimals (VI) Introduction to Algebra (VI) Integers (VII) Fractions and decimals (VII) Simple equations (VII) Lines and Angles (VII) Triangle and its Properties (VII) Rational Numbers (VII)
Mental Ability	Test of Alphabet Logical Number

Resonance®
Educational Institutions
—Telangana & Andhra Pradesh—

Academic Session : 2024 - 25

Reso Eligibility Test (RET) - 2024

For Students moving in Class -VIII
(Presently Studying in Class VII)

Duration: 1 Hour | Max. Marks: 160

Please read the next page of this booklet for the instructions.

Survey Number 321/AA and 322/AA, Situated at Nandigama Village,
Patancheru Mandal, Sangareddy, District, Patancheruvu, Telangana 502300

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.

ResoFAST 2024 - 25

Q.NO	SUBJECT	NATURE OF QUESTIONS	Marks to be awarded			
			No. of Q's	Correct	Wrong	Total
1 - 7	Physics	Single Choice Questions	7	4	0	28
8 - 14	Chemistry	Single Choice Questions	7	4	0	28
15 - 21	Biology	Single Choice Questions	7	4	0	28
22 - 35	Mathematics	Single Choice Questions	14	4	0	56
36 - 40	Mental-Ability	Single Choice Questions	5	4	0	20

* * *

VIII-PAPER-1

PHYSICS

1. The S.I. unit of mass is

   (A) kilogram   **(B)** centigram   **(C)** milligram   **(D)** Tonne

2. Which of the following is a natural luminous source of light ?

   (A) Sun   **(B)** Wood   **(C)** Electric lamp   **(D)** Torch

3. How many terminals are there in a battery ?

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

4. How many degree apart the direction EAST from direction the SOUTH-EAST in magnetic compass:

   (A) 90 Degree   **(B)** 45 Degree   **(C)** 180 Degree   **(D)** 60 Degree

5. A body whose position with respect to surrounding does not change, is said to be in a state of :

   (A) Rest   **(B)** Motion   **(C)** Vibration   **(D)** Oscillation

6. Thermal expansion due to heating at equal temperature will be least :

   (A) In Solid   **(B)** In Liquid   **(C)** In gas   **(D)** Equal in all

7. An electric iron :

   (A) works on the principle of magnetic effect of an electric current.

   (B) can act as an electromagnet.

   (C) works on the principle of heating effect of an electric current.

   (D) is a source of light.

BIOLOGY

8. Which of these trees do not contain branches :

   (A) Coconut   **(B)** Apple   **(C)** Neem   **(D)** Mango

9. Dogs eat porridge as well as bones so they are :

   (A) Herbivores   **(B)** Carnivores   **(C)** Insectivores   **(D)** Omnivores

10. All living organisms have the ability to produce young one of their own kind. The process is called.

    (A) Excretion   **(B)** Reproduction   **(C)** Movement   **(D)** Respiration

11. Which of these is used in the movement of amoeba

    (A) Cilia   **(B)** Flagella   **(C)** Pseudopodia   **(D)** Fins

12. The role of chlorophyll in photosynthesis is to

    (A) Absorb water and minerals

    (B) Absorption of CO_2

    (C) Absorption of light and photolysis of water

    (D) Absorption of light

13. Which of the following is not an element of weather?

(A) Humidity   (B) Temprature   (C) Soil   (D) Rain

14. Change in colour of some organisms according to the background, to protect themselves is called

(A) Mimicry   (B) Moulting   (C) Camouflage   (D) None of these

CHEMISTRY

15. Which of the following is/are element

(A) Iron   (B) Silver   (C) Oxygen   (D) All of these

16. Process of removing hairs of a sheep is called

(A) Weaving   (B) Shearing   (C) Spinning   (D) Ginning

17. A needle and knife belong to the same group because :

(A) they are transparent   (B) they are poor conductor of heat

(C) they float on water   (D) they are hard and magnetic

18. An example of a chemical change is :

(A) exposure of a photographic plate   (B) tearing of paper

(C) melting of sulphur   (D) formation of dew

19. Main constituent in air is

(A) nitrogen   (B) oxygen   (C) argon   (D) water vapour

20. $_{11}Na^{23}$ has :

(A) 11 protons and 23 neutrons   (B) 11 neutrons and 11protons

(C) 11 electrons and 11protons   (D) None of these

21. An indicator that turns reddish brown when dissolved in soap solution is

(A) Litmus   (B) China rose

(C) Turmeric powder   (D) None of these

MATHEMATICS

22. Which one of the following is the smallest numeral?

(A) 15673   (B) 15700   (C) 15198   (D) 15623

23. The whole number which is not a natural number, is :

(A) 1   (B) 0   (C) 9   (D) 2

24. The prime factorisation of 54 is :

(A) $2 \times 2 \times 3 \times 3$ (B) $2 \times 2 \times 2 \times 3$ (C) $2 \times 3 \times 3 \times 3$ (D) 2×27

25. How many integers lie between – 5 and 2 ?

(A) 5   (B) 2   (C) 7   (D) 6

26. $\dfrac{24}{60}$ reduced to its simplest form is :

(A) $\dfrac{12}{30}$ **(B)** $\dfrac{6}{15}$ **(C)** $\dfrac{3}{5}$ **(D)** $\dfrac{2}{5}$

27. Value of $x^2 - xy + y^2$ when x = 0 & y =1 is :

(A) –1   **(B)** 0   **(C)** 1   **(D)** 4

28. 5x × 5x × 5x × 5x .... up to 50 times is same as :

(A) $5x^{50}$ **(B)** $5^{50} \times x^{50}$ **(C)** $250x^{50}$ **(D)** $(250x)^{50}$

29. Harshita earns Rs 3500. If she spent Rs 1249 on buying earphones, what is the balance of her salary?

(A) Rs 2751   **(B)** Rs 2251   **(C)** Rs 2151   **(D)** Rs 2059

30. $\dfrac{1}{2} + \dfrac{3}{4} \times \dfrac{5}{6} \div \dfrac{5}{7} =$

(A) $\dfrac{11}{8}$ **(B)** $\dfrac{8}{11}$ **(C)** $\dfrac{7}{9}$ **(D)** $\dfrac{11}{10}$

31. The difference between two numbers is 642. When the greater is divided by the smaller, the quotient is 8 and the remainder is 19. The numbers are :

(A) 89 and 731   **(B)** 92 and 734   **(C)** 87 and 729   **(D)** 85 and 727

32. An angle is 14° more than its complementary angle then angle is :

(A) 38° **(B)** 52° **(C)** 50° **(D)** None of these

33. In the figure, K is equal to :
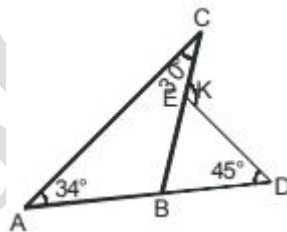
(A) 109° **(B)** 112° **(C)** 75° **(D)** 79°

34. In figure triangle ABC, BD and CD are angle bisectors. If $\angle ABC = 60°$ and $\angle BAC = 80°$.
Find $\angle BDC$.
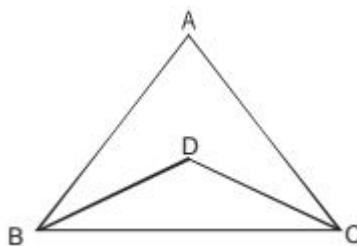
(A) 130°   **(B)** 140°   **(C)** 150°   **(D)** None of these

35. A student was asked to multiply a number by $\frac{3}{2}$. Instead he divided the number by $\frac{3}{2}$ and obtained a number smaller by $\frac{2}{3}$; the number is

(A) $\frac{4}{5}$ (B) $\frac{3}{5}$ (C) $\frac{2}{5}$ (D) $\frac{1}{5}$

MENTAL ABILITY

Directions : (36) Arrange the given words in alphabetical order and tick the one that comes first.

36. (A) Mahender   (B) Mahendra   (C) Maninder   (D) Mahindra

Directions : (37) In each of the following questions, a group of letters is given which are numbered 1, 2, 3, 4, 5 and more. They are four alternatives given containing the combinations of these numbers. Select that combination of numbers in which letters arranged accordingly to form a meaningful word.

37. R A C E T 1 2 3 4 5

(A) 1, 2, 3, 4, 5   (B) 3,1, 2, 4, 5   (C) 5, 2, 3, 4, 1   (D) 5, 1, 2, 3, 4

38. How many such pairs of letters are there in the word INDIGENOUS each of which has the same number of letters between them in the word as in the English alphabets?

(A) None   (B) One   (C) Two   (D) More than two

Directions : (39) Find the missing number.

39. 4, 25, 64, 121, 196, ?

(A) 384   (B) 256   (C) 225   (D) 289

40. Find the number that does not follow the pattern of the series:

720, 360, 24, 6, 2, 1

(A) 720   (B) 360   (C) 24   (D) 6

Reso Eligibility Test (RET) - 2024

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Instructions for filling OMR

(a) Student ID must be correctly filled, else OMR won't be evaluated
(b) If you make a mistake filling your Student ID, use a new OMR
(c) Use Blue/Black Pen for marking

WRONG METHODS   **CORRECT METHOD**

⊗ ⊙ ✍ ✓   ○ ○ ○ ●

Student Hall Ticket No

1 ○○○○○○○
2 ○○○○○○○
3 ○○○○○○○
4 ○○○○○○○
5 ○○○○○○○
6 ○○○○○○○
7 ○○○○○○○
8 ○○○○○○○
9 ○○○○○○○
0 ○○○○○○○

TEST ID

1 ○○○○
2 ○○○○
3 ○○○○
4 ○○○○
5 ○○○○
6 ○○○○
7 ○○○○
8 ○○○○
9 ○○○○
0 ○○○○

Student Name: ....

Father's Name: ....

School Name: ....

Class: .... Area: ....

Phone No: 1) .... 2) ....

Invigilator's Sign: ....

	A B C D		A B C D
1	○○○○	21	○○○○
2	○○○○	22	○○○○
3	○○○○	23	○○○○
4	○○○○	24	○○○○
5	○○○○	25	○○○○
6	○○○○	26	○○○○
7	○○○○	27	○○○○
8	○○○○	28	○○○○
9	○○○○	29	○○○○
10	○○○○	30	○○○○
11	○○○○	31	○○○○
12	○○○○	32	○○○○
13	○○○○	33	○○○○
14	○○○○	34	○○○○
15	○○○○	35	○○○○
16	○○○○	36	○○○○
17	○○○○	37	○○○○
18	○○○○	38	○○○○
19	○○○○	39	○○○○
20	○○○○	40	○○○○

*** Don't Fold the OMR Sheet ***

ANSWER KEY CLASS- VIII PAPER-1

PHYSICS							
1) **A**	2) **A**	3) **B**	4) **B**	5) **A**	6) **A**	7) **C**	

BIOLOGY							
8) **A**	9) **D**	10) **B**	11) **C**	12) **D**	13) **C**	14) **C**	

CHEMISTRY							
15) **D**	16) **B**	17) **D**	18) **A**	19) **A**	20) **C**	21) **C**	

MATHEMATICS							
22) **C**	23) **B**	24) **C**	25) **D**	26) **D**	27) **C**	28) **B**	
29) **B**	30) **A**	31) **A**	32) **A**	33) **A**	34) **A**	35) **A**	

MENTAL ABILITY				
36) **A**	37) **D**	38) **C**	39) **D**	40) **B**