

Information Bulletin
RET– 2024
(APPLYING FOR CLASS –X)
Currently Studying Class IX

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 Maths, 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	Force (VIII) Pressure (VIII) Friction (VIII) Light (VIII) Sound (VIII) Electricity (VIII) Motion (IX) Newton's law of Motion (NLM) (IX) Gravitation (IX)
Chemistry	Synthetic fibers and plastics (VIII) Metals and Non-metals (VIII) Coal and Petroleum (VIII) Combustion and Flame (VIII) Matter around us (IX) Is matter around us pure (IX) Structure of the atom (IX)
Biology	Crop Production & Management (VIII) Microorganisms: Friend and Foe (VIII) Conservation of Plants & Animals (VIII) Cellular level of Organization (VIII) Reproduction in Animals (VIII) Pollution of Air & Water (VIII) Reaching the Age of Adolescence (VIII) Cell (IX) Tissue (IX) Diversity in Living Organisms (IX)
Mathematics	Rational Numbers (VIII) Linear equation in one variable (VIII) Exponents and Powers (VIII) Squares and Square roots (VIII) Cubes and Cube Roots (VIII) Number systems (IX) Polynomials (IX) Linear equations in two variables (IX) Lines and Angles (IX) Surface areas and Volumes (IX) Statistics (IX)
Mental Ability	Alphabet Test Coding – Decoding

Disclaimer: RET is an open excellence Test for motivating and rewarding students. Resonance doesn't ensure unconditional admissions on qualifying RET. Registration fee is nonrefundable. Resonance keeps all right for keeping details of the students confidential. Exam results cannot be challenged and reviewed.

HALL TICKET NO :

 **Resonance**[®]
Educational Institutions
Telangana & Andhra Pradesh

TEST ID
0001

Academic Session : 2024 - 25

Reso Eligibility Test (RET) - 2024

For Students moving in Class - X
(Presently Studying in Class IX)

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

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.

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

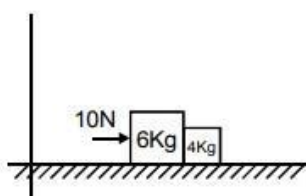
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X class paper-1

PHYSICS

1. When a body is stationary
 (A) There is no force acting on it
 (B) The force acting on it is not in contact with it
 (C) The combination of forces acting on it balances each other
 (D) The body is in vacuum
2. Force per unit area is called :
 (A) Energy. (B) Work. (C) Pressure. (D) Thrust.
3. Frictional force is :
 (A) Contact force. (C) Muscular force. (B) Non-contact force. (D) Force applied by earth.
4. Hertz is unit of :
 (A) Time period. (B) Wavelength. (C) Frequency. (D) Wave velocity.
5. The SI unit of current is:
 (A) Coulomb. (B) Ampere. (C) Volt. (D) Ohm.
6. In case of a moving body:
 (A) Displacement > Distance (B) Displacement < Distance
 (C) Displacement ≥ Distance (D) Displacement ≤ Distance
7. Two blocks are kept in contact with each other on a smooth surface. The force on the lighter block and its acceleration is :



- (A) 6 N, 1 m/s² (B) 4 N, 1 m/s² (C) 10 N, 1 m/s² (D) 0 N, 0 m/s²

CHEMISTRY

8. The property due to which plastic is found in all shapes that it is -
 (A) reusable (B) recyclable (C) mouldable (D) stretchable
9. The only metal which is liquid at room temperature is:
 (A) bromine (B) mercury (C) both A & B (D) none of these
10. Which one of the following is not a petroleum product?
 (A) Kerosene (B) Gasoline (C) Asphalt (D) Bees wax



11. Efficiency of a fuel is determined by its -
 (A) ignition temperature (B) calorific value
 (C) production of light (D) duration of burning.
12. Which of the following is/are rigid(s) ?
 (A) Solids (B) Liquids (C) Gases (D) Both (B) and (C)
13. To separate the various coloured pigments present in a substance which method is used?
 (A) sublimation (B) Chromatography (C) Centrifugation (D) Evaporation
14. The protons and neutrons are collectively called -
 (A) deuterons (B) positrons (C) mesons (D) nucleons.

BIOLOGY

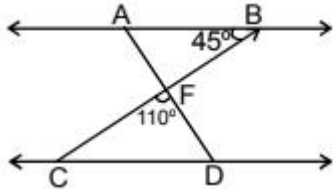
15. Name the cells which have discoidal shape
 (A) Skin cells (B) Intestine cells (C) Egg cell (D) RBC
16. The first person to observe a cell under microscope was -
 (A) M. Schleiden (B) T. Schwann (C) Robert Hooke (D) A.V. Leeuwenhoek
17. Cells are autonomous because :
 (A) Each cell is independent, not require other cells. (B) They are able to grow
 (C) They form spindle fibre (D) They are bean shaped
18. The term used for the process of separation of grains from chaff is
 (A) sieving (B) threshing (C) weeding (D) hand picking
19. Who discover the first cell -
 (A) Louise Pasteur (B) Robert Hooke (C) Alexander Fleming (D) A.V. Leeuwenhoek
20. Sperm carrying fluid is known as
 (A) semen (B) plasma (C) seminal vesicle (D) none of these
21. What is the age puberty in female child -
 (A) 11 – 16 years (B) 10-14 Years (C) 12 – 16 Years (D) 13 – 16 Years

MATHEMATICS

22. Which of the following natural numbers is neither prime nor composite.
 (A) 0 (B) 1 (C) 2 (D) None
23. The value of $(501)^2 - (500)^2$ is :
 (A) 1 (B) 101 (C) 1001 (D) None of these
24. The length of each side of the cubical box is 2.4 m. Its volume is:
 (A) 13.824 m^3 (B) 14.824 m^3 (C) 16.934 m^3 (D) 18.824 m^3
25. If $\frac{9^n \times 3^5 \times (27)^3}{3 \times (81)^4} = 27$, then n equals :
 (A) 0 (B) 2 (C) 3 (D) 4
26. How many rational numbers exist between any two distinct rational numbers?
 (A) 2 (B) 3 (C) 11 (D) Infinite



27. $\sqrt{2}$ is a polynomial of degree :
 (A) 2 (B) 0 (C) 1 (D) $\frac{1}{2}$
28. If two lines intersected by a transversal, then each pair of corresponding angles so formed is :
 (A) Equal (B) Complementary (C) Supplementary (D) None of these
29. In the given figure, $AB \parallel CD$, $\angle ABF = 45^\circ$ and $\angle CFD = 110^\circ$. Then, $\angle FDC$ is :



- (A) 25° (B) 45° (C) 35° (D) 30°
30. Find the volume of the sphere whose surface area is 154 square cm.
 (A) $\frac{77}{3}$ cm³ (B) $\frac{49}{3}$ cm³ (C) $\frac{539}{3}$ cm³ (D) None of these
31. The radii of two cylinders are in the ratio 2: 3 and their heights are in the ratio of 5: 3. The ratio of their volumes is :
 (A) 10: 17 (B) 20: 27 (C) 17: 27 (D) 20: 37
32. In an examination, 10 students scored the following marks in Mathematics 35,19,28,32,63,02, 47,31,13,98. Its range is :
 (A) 96 (B) 02 (C) 98 (D) 50
33. The difference between the maximum and the minimum value observations in the data is called :
 (A) cumulative frequency (B) class interval
 (C) range (D) frequency
34. Frequency of the class interval 4 – 8 is :

Class	0 – 4	4 – 8	8 – 12	12 – 16	16 – 20
Frequency (f)	6	15	23	27	30

- (A) 15 (B) 4 (C) 9 (D) 8
35. In the class intervals 0 – 20 and 20 – 40, the number 20 is included in :
 (A) 0 – 20 (B) 20 – 40 (C) both the intervals (D) None of these

MENTAL ABILITY

36. If the following words are arranged as found in the dictionary, then what will be the fourth letter from the left in the last word?
 INTIMATION, INFORMATION, INTEREST, INTERROGATION, INSTIGATION
 (A) R (B) O (C) T (D) I
37. Which name will come at 3 rd place in a telephone directory from the following given names?
 (A) AMIT (B) AMINA (C) ALOK (D) ABHIMAN



38. Which letter is midway between 13th letter from the left and the 4th letter from the right in the sequence given below?
USBYFHKOPRAWCGJMQLNTXZ
- (A) O (B) Q (C) P (D) M
39. In a certain code, GIGANTIC is written as GIGTANCI. How is MIRACLES written in that code?
(A) MIRLCAES (B) MIRLACSE (C) RIMCALSE (D) RIMLCAES
40. If MOBILE is coded as DFBICE, then CHARGE is coded as :
(A) CHBXQE (B) CLARTE (C) CHAIGE (D) CHIAEF

Resonance

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

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TEST ID

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Student Name:

Father's Name:

School Name:

Class: Area:

Phone No: 1) 2)

Invigilator's Sign:

A B C D

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**ANSWER KEY CLASS-X PAPER-1****PHYSICS**

1) C	2) C	3) A	4) C	5) B	6) D	7) B
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CHEMISTRY

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

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

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

36) D	37) B	38) B	39) B	40) C
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