

## INFORMATION BULLETIN ResoFAST 2025

### Currently Studying in Class V

#### About ResoFAST

ResoFAST is a knowledge and aptitude test which is conducted by Resonance Schools, Hyderabad to assess the student's current academic performance and prospects.

For Foundation aspiring students ResoFAST 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.

#### Who can attend ResoFAST?

Students currently Studying 5th to 10th Classes are eligible to write ResoFAST exam.

#### How will ResoFAST help you?

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

#### How to apply for ResoFAST?

Students who want to apply for ResoFAST can login to [www.resofast.com](http://www.resofast.com) and apply by paying registration fee.

#### Registration Fee:

- Rs. 300/- 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 ResoFAST Co-ordination Call for Registration Assistance on **9121219858 (9 AM to 7 PM)**

#### ResoFAST: Exam Process

ResoFAST exam is conducted in offline mode across all in Hyderabad as per the specific dates mentioned in website.

#### Disclaimer:

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

## ResoFAST 2025 Exam Pattern

### Currently Studying in Class V

1. The question paper contains a total of **40 Multiple Choice Questions**, numbered from **Q1 to Q40**.
2. **Pattern & Marking Scheme of each section:**

| Parts         | Subject               | No. of questions | Questions Range  | Marks        |
|---------------|-----------------------|------------------|------------------|--------------|
| <b>Part-A</b> | Environmental Science | 21               | Q1 to Q21        | 84 M         |
| <b>Part-B</b> | Mathematics           | 14               | Q22 to Q35       | 56 M         |
| <b>Part-C</b> | Mental Ability        | 05               | Q36 to Q40       | 20 M         |
| <b>Total</b>  |                       | <b>40</b>        | <b>Q1 to Q40</b> | <b>160 M</b> |
3. Attempt all questions, each having only one correct answer.
4. Each question carries **4 marks**.
5. Candidates must ensure that the **OMR Sheet is not folded or damaged** in any way. Avoid making any **stray marks** on the OMR sheet. **Do not** write your **Roll Number** anywhere except in the designated space provided in the OMR Sheet.
6. The use of **white correction fluid** is **strictly prohibited** on the OMR Sheet.
7. The use of **blank papers, clipboards, log tables, slide rules, calculators, mobile phones, or any other electronic gadgets** is **strictly not permitted** inside the examination hall.
8. There are empty pages left at the end of this question paper for **rough work**.

## ResoFAST 2025 Syllabus

### Currently Studying in Class V

| SUBJECT: ENVIRONMENTAL SCIENCE                     |  |
|--|--|
| Chapter Name                                       | Topics   |
| <b>Changing family Structure</b>                   | Types of Families: Nuclear, Joint, Extended, Single-parent, Roles and Responsibilities, Changes Over Time, Family Support System, Cultural Diversity, Adoption and Foster Care, Gender Equality  |
| <b>Plants around us</b>                            | Parts of a Plant, Types of Roots, Importance of Plants, Uses of Plants, Plants as Resources, Plant Adaptations, Care for Plants  |
| <b>Various types of Animals</b>                    | Classification of Animals, Animal Food Habits, Habitats, Adaptations, Movement, Importance of Animals, Conservation  |
| <b>The Living organisms and their surroundings</b> | Living and Non-living Things, Types of Living Organisms, Surroundings and Habitat, Types of Habitats, Adaptations in Plants, Adaptations in Animals, How Organisms Depend on Their Surroundings, Balance in Nature, Human Impact on Surroundings |
| <b>Our Village</b>                                 | Features of a Village, Occupations, Agriculture, Transport & Communication, Panchayati Raj, Culture, Changes in Villages   |
| <b>Bones and Muscles</b>                           | Skeletal System, Major Bones, Joints, Muscular System, Movement, Posture & Exercise, Injuries & First Aid  |
| <b>Forests</b>                                     | Importance of Forests, Forest-dependent Communities, Rights Over Forests, Deforestation, Conservation, Forest Movements, Human–Forest Conflicts  |
| <b>Interdependence in Nature</b>                   | Biotic & Abiotic Factors, Food Chains & Webs, Ecosystems, Symbiotic Relationships, Balance in Nature, Adaptations, Human Impact  |

## SUBJECT: MATHEMATICS

| Chapter Name                         | Topics   |
|--------------------------------------|--|
| <b>Smart Tables</b>                  | Tally Marks & Frequency Counting, Picture Tables & Picture Graph Interpretation, Box Charts / Bar-like Visual Representation, Data Collection & Classification, Trend Interpretation from Visual Data, Pictograms & Symbol-Value Understanding |
| <b>Tick-Tock Goes the Clock</b>      | Reading Analog Clocks, Elapsed Time (Forward & Backward on Clock), Minute Hand Movements & Counting Minutes, Calendar Reading & Interpretation, Duration of Real-Life Activities   |
| <b>How much More - How much Less</b> | Addition, Subtraction, Word Problems, Estimation of Sums & Differences, Patterns in Addition & Subtraction   |
| <b>Borders and Boundaries</b>        | Perimeter of Regular & Irregular Shapes, Real-Life Perimeter Contexts, Perimeter under Modification, Circular Paths & Different Tracks, Problem Solving with Mixed Units (m, cm)   |
| <b>Patterns</b>                      | Repeating Patterns, Growing Patterns, Movement Patterns, Number Patterns, Calendar Number Patterns   |
| <b>Multiple and Divide</b>           | Real-life Multiplication, Traditional Multiplication, Division as Equal Sharing & Repeated Subtraction, Patterns in Multiplication   |
| <b>Angles in our Surroundings</b>    | Angles Formed by Turning Objects, Right Angle, Angles Less Than / Greater Than Right Angle, Understanding Degrees  |
| <b>Playing with Shapes</b>           | Cube Nets & 3D Visualization, Dot-Grid Geometry, Shadows & 2D Projections, Circle Construction & Radius, Tangram Geometry & Composing Shapes, Floor-Tile Patterns & Repetition   |
| <b>Bigger Numbers</b>                | Place Value & Expanded Form of Large Numbers, Forming Largest/Smallest Numbers with Given Digits, Estimation of Sums and Differences, Operations with Bigger Numbers, Order of Magnitude Thinking  |

## SUBJECT: MENTAL ABILITY

| Chapter Name     | Topics   |
|------------------|--|
| Playing Alphabet | Alphabetical Order, Word Formation by Unscrambling the Letters |
| Number Game      | Number Series  |



**Class:** Currently Studying in Class V

**Maximum Marks:** 160 M

**Duration:** 60 Min.

## Resonance Future Achievers Scholarship Test

### Important Instructions to the Students

1. The question paper contains a total of **40 Multiple Choice Questions**, numbered from **Q1 to Q40**.
2. This question paper contains **THREE PARTS**. **Part-A** is *Environmental Science*, **Part-B** is *Mathematics*, **Part-C** is *Mental Ability*.
3. The question paper consists of **21 questions** from **Environmental Science**, **14 questions** from **Mathematics**, and **5 questions** from **Mental Ability**, attempt all questions, each having only one correct answer.
4. For any question:
  - Each **correct answer** is awarded **+4 marks**.
  - Each **incorrect answer** will result in a deduction of **0 mark**.
  - **No marks (0)** will be awarded if the question is left unanswered.
5. **Pattern & Marking Scheme of each section:**

| Parts         | Subject               | No. of questions | Questions Range  | Marks        |
|---------------|-----------------------|------------------|------------------|--------------|
| <b>Part-A</b> | Environmental Science | 21               | Q1 to Q21        | 84 M         |
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*All the Best*

**1. Leaves: Why So Green?**

In a garden, leaves appear green not just for beauty but because it helps in photosynthesis. The green color of leaves is due to the presence of:

(A) Starch      (B) Chlorophyll      (C) Protein      (D) Water

**2. Diet Choices: Plant or Meat?**

Some animals eat only plants, some only meat, but a few eat both. Such animals are called omnivores.

Which of the following animal is an omnivore?

(A) Tiger      (B) Cow      (C) Crow      (D) Deer

**3. Families: Who Lives Together?**

A nuclear family usually has only the closest members living together. In a nuclear family, the members are usually:

(A) Parents and children      (B) Parents, children, and grandparents  
(C) Cousins and uncles      (D) Only grandparents

**4. Bones: Which One Stands Tallest?**

Our body has many bones, but one of them is the longest and helps us stand, walk, and run. Identify the longest bone in the human body is:

(A) Humerus      (B) Femur      (C) Rib      (D) Skull

**5. Forest Food Chain: Who Makes the Food?**

In a forest, some organisms make their own food and start the food chain. Which of the following is a producer in a forest?

(A) Snake      (B) Grass      (C) Frog      (D) Lion

**6. (Common Occupation in Villages) Village Life: What Do People Do?**

Many people in villages earn their living through traditional work. Which of these is a common occupation in villages?

(A) Farming      (B) IT work      (C) Software designing      (D) Banking

**7. Nature's Partnerships: Who Depends on Whom?**

Some organisms rely on each other for food, shelter, or survival. Which of the following pairs show interdependence correctly?

(A) Bee and Flower      (B) Lion and Grass  
(C) Crow and Stone      (D) Man and Chair

**8. Muscles: Who Works Without Thinking?**

Some muscles work automatically without conscious control. Which of the following muscle is involuntary in action?

(A) Leg muscle      (B) Arm muscle      (C) Heart muscle      (D) Hand muscle

**9. Desert Survival: How Plants Beat the Heat**

Desert plants have special features to survive with very little water. Which of the following is an adaptation of desert plants?

(A) Broad leaves      (B) Needle-like leaves  
(C) Large flowers      (D) Weak roots

**10. Hidden Growth: The Underground Part**

Some parts of plants grow under the soil to absorb water and nutrients. Which part of the plant grows underground?

(A) Stem      (B) Root      (C) Leaf      (D) Flower

**11. *Body Parts: What Do They Do?***

| Column A               | Column B                     |
|------------------------|------------------------------|
| 1. Backbone            | (A) Supports body posture    |
| 2. Rib cage            | (B) Protects heart and lungs |
| 3. Brain               | (C) Controls body functions  |
| 4. Heart               | (D) Pumps blood              |
| (A) 1-a, 2-b, 3-c, 4-d | (B) 1-a, 2-c, 3-b, 4-d       |
| (C) 1-c, 2-a, 3-b, 4-d | (D) 1-d, 2-a, 3-b, 4-c       |

**12. *Animals: What's on Their Menu?***

| Column A                           | Column B                           | Column C             |
|------------------------------------|------------------------------------|----------------------|
| 1. Herbivore                       | (A) Goat                           | i) Eats plants       |
| 2. Carnivore                       | (B) Snake                          | ii) Eats meat        |
| 3. Omnivore                        | (C) Human                          | iii) Eats both       |
| 4. Carnivore bird                  | (D) Eagle                          | iv) Hunts with claws |
| (A) 1-a-i, 2-b-iii, 3-c-ii, 4-d-iv | (B) 1-a-ii, 2-b-iii, 3-d-i, 4-c-iv |                      |
| (C) 1-c-iii, 2-d-iv, 3-b-i, 4-a-ii | (D) 1-d-iv, 2-a-i, 3-b-ii, 4-c-ii  |                      |

**13. *Green to Breath: Which Statements Hold?***

**Statement 1:** Photosynthesis takes place in leaves.

**Statement 2:** Leaves absorb water from the soil.

|   |   |
|---|---|
| (A) Both statements are true            | (B) Both statements are false           |
| (C) statement 1 true, statement 2 false | (D) statement 1 false, statement 2 true |

**14. *Village Life vs City Life: True or False?***

**Statement 1:** In villages, people depend more on natural resources.

**Statement 2:** Cities have fewer occupations than villages.

|   |   |
|---|---|
| (A) Both statements are true            | (B) Both statements are false           |
| (C) statement 1 true, statement 2 false | (D) statement 1 false, statement 2 true |

**15. *Plant Support: Who Needs a Helping Hand?***

Rina saw a creeper plant growing near her house. It could not stand upright by itself. What can be said about creepers?

|                                 |                               |
|---------------------------------|-------------------------------|
| (A) They have very strong stems | (B) They need support to grow |
| (C) They grow underground       | (D) They are desert plants    |

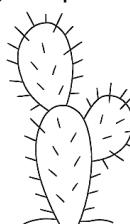
**16. *Predator-Prey: What Happens Next?***

In a forest, the number of deer decreased sharply. Which of the following is the most likely result?

- (A) The tiger population will increase
- (B) The tiger population will decrease
- (C) Tigers will start eating grass
- (D) Tigers will move underground

**17. *Thorns or Leaves: How Desert Plants Thrive***

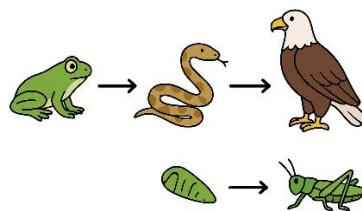
Which feature of the plant shown in the image helps it to survive in the desert?



|                  |            |               |                |
|------------------|------------|---------------|----------------|
| (A) Broad leaves | (B) Spines | (C) Weak stem | (D) Thin roots |
|------------------|------------|---------------|----------------|

**18. *Top Predator in Action: Nature's Apex Hunter***

In this food chain, which is the top consumer?



(A) Frog

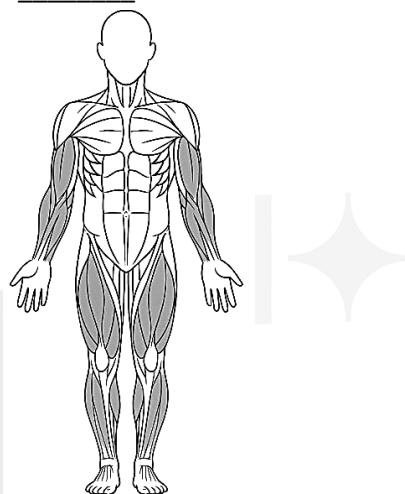
(B) Snake

(C) Eagle

(D) Grasshopper

**19. *Muscle Matters: Spotting Voluntary Power***

The muscles highlighted in the image are \_\_\_\_\_.



(A) Involuntary

(B) Smooth

(C) Voluntary

(D) Cardiac

**20. *From Gills to Lungs: How Animals Breathe***

1. Fish breathe using gills.
2. Birds breathe using lungs.
3. Earthworms breathe through moist skin.

Which statements are correct?

(A) 1 and 2

(B) 2 and 3

(C) 1 and 3

(D) All three

**21. *Forests: Nature's Lungs and Soil Guardians***

1. Forests maintain balance of oxygen and carbon dioxide.
2. Forests prevent soil erosion.
3. Forests are harmful for the environment.

Which statements are correct?

(A) 1 and 2

(B) 2 and 3

(C) 1 and 3

(D) All three

**MATHEMATICS**

**22. *Counting Wins and Misses: Weekly Parcel Check***

A delivery company recorded the number of parcels delivered in four weeks:

| Week   | Parcels Delivered |
|--------|-------------------|
| Week 1 | 120               |
| Week 2 | 95                |
| Week 3 | 130               |
| Week 4 | 115               |

If the goal was to deliver **at least 100 parcels each week**, which weeks failed to meet the goal?

(A) Week 2 only

(B) Week 1 and 2

(C) Week 2 and 4

(D) All weeks met the goal

**23. *On the Road: Calculating the True Travel Time***

A bus leaves at 9:50 AM and reaches its destination at 1:20 PM. It takes a 25-minute break at a rest stop. What is the actual driving time of the bus (excluding the break)?

(A) 3 hours (B) 3 hours 5 minutes  
(C) 3 hours 30 minutes (D) 3 hours 45 minutes

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**24. *Crack the Code: What Comes Next?***

A sequence follows this pattern: 5, 11, 17, 23, \_\_, \_\_  
What are the next two numbers?

(A) 29, 35 (B) 30, 37 (C) 28, 33 (D) 31, 37

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**25. *Boxed In: How Many Left?***

A warehouse had 1,250 boxes. They shipped 700 in the morning and  $\frac{1}{4}$  of the remaining in the evening. How many boxes are still in the warehouse after evening?

(A) 137 (B) 412 (C) 400 (D) 550

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**26. *Turn That Wheel: Guess the Angle!***

A steering wheel turns halfway from left to right. What type of angle has been formed?

(A) Acute (B) Right (C) Straight (D) Reflex

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**27. *Multiple Hunt: Find the Perfect Fit***

Think of a number that is a multiple of 4, 6, and 8. It is less than 100 and divisible by 3. Which number fits all the conditions?

(A) 24 (B) 48 (C) 96 (D) 60

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**28. *Geometric Challenge: The Unmovable Shape***

One of these shapes cannot roll, cannot slide, and cannot stack. Which one is it?

(A) Cube (B) Cone (C) Sphere (D) Cylinder

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**29. *City Count: Round It Right***

A city has a population of 6,78,342. Round it off to the nearest lakh.

(A) 6,00,000 (B) 7,00,000 (C) 6,80,000 (D) 6,78,000

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**30. *Fruit Fiesta: Who Picked Orange?***

In a circular chart representing a class's favorite fruits:

- $\frac{1}{4}$  chose mango
- $\frac{1}{3}$  chose banana
- $\frac{1}{6}$  chose apple
- The rest chose orange

What fraction of students chose orange?

(A)  $\frac{1}{4}$  (B)  $\frac{1}{6}$  (C)  $\frac{1}{3}$  (D)  $\frac{1}{12}$

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**31. *Counting the Days: Book Fair Edition***

3 A book fair opens on 2nd February and closes on 14th February, including both days. How many days did the fair run?

(A) 12 days (B) 13 days (C) 14 days (D) 11 days

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**32. *Square It Up: Spot the Pattern***



Which shape comes next in the pattern?

(A) (B) (C) (D)

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**SPACE FOR ROUGH WORK**



# 3 OUT OF EVERY 4

Resonance Hyderabad Students  
Secured Merit Seats in 2025

6100+ students have secured seats in IITs, NITs, IIITs,  
AIIMS & other top institutes in just 7 years

**Think Results. Think Resonance.**

## 2025 Result Highlights

- 八 175 IIT Seat Selections
- 八 550 Merit Seats in Top 10 EAPCET Colleges
- 八 600 Merit Seats in Top National and State Deemed universities
- 八 323 NIT,IIIT,BITS Selections
- 八 910 Merit Seats in Top 30 EAPCET Colleges
- 八 90+ Merit Seats in Top Medical Colleges
- 八 955 Students in State Top 10 Marks of Telangana Intermediate

