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Vedic Mathematics

The Railway Group D exam typically consists of 100 questions covering four main subjects: Mathematics, General Intelligence & Reasoning, General Science, and General Awareness & Current Affairs. Here's a sample set of 100 questions, reflecting the typical difficulty and topics found in the exam.

Please note: This is a sample set, and actual exam questions may vary. It's highly recommended to practice with previous year's papers and comprehensive study materials.

I. General Science (25 Questions)

Physics

1. The SI unit of force is:
a) Joule b) Watt
c) Pascal d) Newton

2) Which instrument is used to measure electric current?
a) Galvanometer b) Voltmeter
c) Ohmmeter d) Ammeter

3. The phenomenon responsible for the twinkling of stars is:
a) Reflection of light b) Scattering of light
c) Dispersion of light d) Atmospheric refraction of light

4. According to Ohm's Law, if voltage (V) is constant, how does current (I) relate to resistance (R)?
a) I is proportional to R squared
b) I is directly proportional to R
c) I is independent of R
d) I is inversely proportional to R

5. What is the SI unit of work?
a) Joule b) Watt
c) Newton d) Erg

6. Which color of light deviates the most when passing through a prism?
a) Yellow b) Red
c) Violet d) Green

7. The mass of an object is 10 kg on Earth. What will be its mass on the Moon?
a) 10 kg b) 16.7 kg
c) 1.67 kg d)60 kg

8. Which type of mirror is used as a rear-view mirror in vehicles?
a) cylindrical mirror b) convex mirror
c) Plane mirror d) Concave mirror

9. Sound waves are examples of:
a) Transverse waves b) Electromagnetic waves
c) Longitudinal waves d) Stationary waves

10. The device that converts mechanical energy into electrical energy is called a:
a) Generator b) Transformer
c) Motor d) Resistor

Chemistry

1. Which of the following is an example of a physical change?
a) Rusting of iron b) Melting of ice
c) Burning of wood d) Digestion of food

2. The atomic number of an element is determined by the number of:
a) Electrons b) Neutrons
c) Protons d) Protons and Neutrons

3. Which gas is responsible for the depletion of the ozone layer?
a) Methane b) Carbon dioxide
c) Sulphur dioxide d) Chlorofluorocarbons (CFCs)

4. What is the chemical formula of baking soda?
a) NaCl b) $NaHCO_3$
c) Na_2CO_3 d) NaOH

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5. Which of the following is a noble gas?
a) Neon b) Nitrogen
c) Hydrogen d) Oxygen

6. Acids turn blue litmus paper:
a) No change b) Red
c) Green d) Yellow

7. The process of conversion of a liquid into a gas is called:
a) Sublimation b) Condensation
c) Evaporation d) Freezing

8. Which of the following is used in pencils?
a) Diamond b) Sulphur
c) Silicon d) Graphite

9. What is the common name of calcium oxychloride ($CaOCl_2$)?
a) Washing soda b) Bleaching powder
c) Baking soda d) Plaster of Paris

10. Which of the following elements is a liquid at room temperature?
a) Bromine b) Iron
c) Sodium d) Chlorine

Biology

1. Which of the following is known as the powerhouse of the cell?
a) Nucleus b) Ribosome
c) Mitochondria d) Endoplasmic Reticulum

2. Which gas is released during photosynthesis?
a) Oxygen b) Hydrogen
c) Carbon Dioxide d) Nitrogen

3. Which vitamin is essential for blood clotting?
a) Vitamin K b) Vitamin A
c) Vitamin C d) Vitamin D

4. The largest artery in the human body is the:
a) Femoral Artery b) Carotid Artery
c) Aorta d) Pulmonary Artery

5. Which of the following is a communicable disease?
a) Hypertension b) Arthritis
c) Diabetes d) Tuberculosis

6. The primary function of red blood cells is to:
a) Transport oxygen b) Fight infection
c) Clot blood d) Produce antibodies

7. Which organ produces bile?
a) Liver b) Pancreas
c) Gallbladder d) Stomach

8. The process by which plants release water vapor into the atmosphere is called:
a) Absorption b) Photosynthesis
c) Transpiration d) Respiration

9. Which of the following is caused by a virus?
a) Common Cold b) Malaria
c) Cholera d) Typhoid

10. The basic structural and functional unit of life is the:
a) Tissue b) Cell
c) Molecule d) Organ

II. Mathematics (25 Questions)

1) $10\frac{1}{2} - [8\frac{1}{2} + \{6 - (7 - \overline{6 - 4})\}]$
a) 0 b) 2
c) 1 d) 9

2) $118 - [121 \div (11 \times 11) - (-4) - \{3 - \overline{9 - 2}\}]$
a) 109.9 b) 108.5
c) 102.5 d) 107.3

3) $36 - [18 - \{14 - (15 - 4 \div 2 \times 2)\}]$
a) 22 b) 34
c) 21 d) 23

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4) $222 - \frac{1}{3}$ of $\{42 + 56 - \overline{8 + 9}\} + 108$
a) 280 b) 703
c) 303 d) 904

5) $27 - [38 - \{46 - (15 - \overline{13 - 2})\}]$
a) 41 b) 31
c) 51 d) 91

6) $48 - [18 - \{16 - (5 - \overline{4 - 1})\}]$
a) 55 b) 66
c) 33 d) 44

7) $\cfrac{1}{3+\cfrac{1}{4+\cfrac{1}{5+\frac{1}{6}}}}$
a) $\frac{130}{421}$ b) $\frac{421}{130}$
c) $\frac{503}{211}$ d) $\frac{531}{212}$

8) The value of $9^5 \times 3^{-4} \times 27^3$ is
a) 3^{10} b) 3^{15}
c) 3^9 d) 3^{11}

9) What is the value of $\sqrt{2^4} + \sqrt[3]{64} + \sqrt[4]{2^8}$ = ?
a) 12 b) 18
c) 16 d) 24

10) What is the square of 86?
a) 7396 b) 7366
c) 7426 d) 7436

11) What is the square root of 17424?
a) 128 b) 132
c) 138 d) 136

12) The value of $\sqrt{0.0144}$ is
a) 0.12 b) 0.012
c) 1.2 d) 0.0012

13) LCM of $\frac{2}{3}, \frac{4}{9}$ and $\frac{5}{6}$ is
a) $\frac{20}{3}$ b) $\frac{10}{3}$
c) $\frac{20}{27}$ d) $\frac{8}{27}$

14) The HCF of $\frac{10}{35}, \frac{40}{9}, \frac{70}{45}$ is
a) $\frac{10}{315}$ b) $\frac{100}{315}$
c) $\frac{20}{375}$ d) $\frac{315}{10}$

15. The average marks obtained by 100 students in a certain examination is 45. Find the total marks.
(a) 4500 (b) 4600
(c) 1000 (d) 450

16. Find the average of first 50 natural numbers.
(a) 26.5 (b) 24
(c) 25.5 (d) 28

17) Three partners A, B, C start a business. Twice A's capital is equal to thrice B's capital and B's capital is four times C's capital. Out of a profit of Rs 16,500At the end of the year, B's share is
a) Rs4000 b) Rs6000
c) Rs7500 d) Rs 6600
e) None of these

18) Six years ago, the ratio of the ages of Kunal and Sagar was 6: 5 four years hence, the ratio of their ages will be 11 : 10. What is Sagar's age at present?
a) 21 b) 15
c) 16 d) 32

19) A's salary is 50% more than that of B. Then B's salary is less than that of A by
a) $33\frac{1}{4}\%$ b) 50%
c) $44\frac{1}{2}\%$ d) $33\frac{1}{3}\%$

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20) Two numbers are less than a third number by 30% and 37% respectively. The per cent by which the second number is less than the first is
a) 4% b) 10%
c) 3% d) 7%

21) Nisha bought a number of oranges at 2 for a rupee and an equal number at 3 for a rupee. To make a profit of 20% she should sell a dozen for
a) Rs.10 b) Rs.8
c) Rs.6 d) Rs.12

22)The cost price of a radio is Rs.600. The 5% of the cost price is charged towards transportation. After adding that, if the net profit to be made is 15%, then the selling price of the radio must be
a) Rs.664.50 b) Rs.724.50
c) Rs.704.50 d) Rs.684.50

23) The interest paid on ₹ 1600 at the rate of 5% simple interest per annum for 6 yr is
(a) ₹ 2080 (b) ₹ 450
(c) ₹ 2496 (d) ₹ 480

24) Find the Compound Interest on Rs. 2400 for 2 ½ years at 5% PA. CI annually.
a) 2712.15 b) 312.15
c) 300 d) 312

25) A truck covers a distance of 360 km in 8 h. A car covers the same distance in 6 h. What is the respective ratio between the speeds of the truck and the car
(a) 3 : 5 (b) 3 : 4
(c) 1 : 2 (d) 4 : 5
(e) None of these

III. Reasoning 30 Questions

Series & Pattern Completion

1) 126 144 110 128 78 ? 14 32
A. 102 B. 96 C. 114
D. 84 E. 70

2) 82 206 394 614 ? 1094
A. 920 B. 875 C. 850
D. 905 E. 814

3) 567 126 36 14.4 9.6 ?
A. 16.5 B. 17.9 C. 21.5
D. 18.3 E. None of these

4) 15 16 36 117 ? 2445
A. 359 B. 645 C. 246
D. 484 E. None of these

5) 141 221 286 334 ? 395
A. 371 B. 369 C. 271
D. 354 E. 299

Coding-Decoding - 2

6) In a code language, if 'BUTTER' is coded as 'EXWWHU' and 'MILK' is coded as 'PLON', then in the same code language, how will 'EARTH' be spelled?
(a) HDWUK (b) HDUWK
(c) KHDUW (d) KHUWD

7) If 'DEAR' is coded 'FGCT', then how will as 'READ' be coded as?
(a) TGCF (b) FGCF
(c) TSFC (d) TCGF

8) If the day after tomorrow is a Sunday, what was it day before yesterday?
(a) Wednesday (b) Thursday
(c) Friday (d) Saturday

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9) At what time between 2 O'clock and 3 O'clock, will the hands of a clock make right angle?

(a) $10\frac{10}{11}$ min past 2 (b) $27\frac{3}{11}$min past 2

(c) $10\frac{10}{15}$ min past 3 (d) Both 'b' and 'c

10. Find the number of triangles in the figure given below.

a) 13 b) 15

c) 12 d) None of the above

11) Timid : Ass : : Cunning : ?

(1) Ant (2) Fax

(3) Rabbit (4) Horse

12) Rectangle : Four :: ? : ?

(1) Square : Seven (2) Polygon : Two

(3) Circle : Six (4) Triangle : Three

13) Truth : Lie :: ? : ?

(1) Big : Small (2) Pink : Colour

(3) Big : Huge (4) Lawyer : Black

14) Truck : Vehicle : : ? : ?

(1) Car : Road (2) Road : Stones

(3) Scooter: Tyre (4) Green : Colour

15) Square : Perimeter : : ? : ?

(1) Circumference : Sphere

(2) Circle : Circumference

(3) Perimeter : Rectangle

(4) Area : Triangle

16. If – stands for stands for ÷, + stands for x, ÷ stands for – and x stands for +. find out which one is correct.

(1) 49 x 7+ 3 + 5 ÷ 8 = 16

(2) 49 ÷ 7 x 3 +5 – 8 = 26

(3) 49 + 7 – 3 x 5 ÷ 8 = 20

(4) 49 – 7 + 3 ÷ 5 x 8 = 24

Directions: (17 – 19) Four words have been given out of which three are alike in some manner and one is different. Select the odd word.

(1) Mansion (2) Lodge

(3) Tent (4) Inn

(1) Mustard gas (2) Gasoline

(3) Diesel (4) Natural gas

(1) Carnivorous-Tiger (2) Herbivorous - Cow

(3) Rabbit-Herbivorous (4) Carnivorous-Dog

20) In a row of persons Vipul is 37^{th} from left and 29^{th} from right. How many persons are there in that row?

a) 63 b) 55 c) 65 d) 72

21) Statements

All jungles are tigers.

Some tigers are horses.

Conclusions

I. At least some horses are jungles.

II. Some tigers are jungle.

22) Statements

All birds are tall.

Some tall are hens.

Conclusions

I. Some birds are definitely hens.

II. Some hens are tall.

23) Statements

All artists are smokers.

Some smokers are drunkards.

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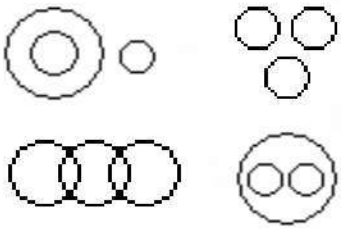
Conclusions

I. All smokers are artists.

II. Some drunkards are definitely not smokers.

22) Which of the following diagrams indicates the best relation between Travelers, Train and Bus?



23) Directions In each of the following questions, a statement is given followed by two conclusions numbered I and II.

Give answer

(a) if only Conclusion 1 follows
(b) if only Conclusion II follows
(c) if either Conclusion 1 or II follows
(d) if neither Conclusion I nor II follows
(e) if both Conclusions I and II follow

Statement

These apples are too expensive to be bad.

Conclusions

I. When apples are in short supply, the prices go up.

II. The higher the selling price, the superior is the quality of the commodity.

(a) if only Conclusion 1 follows
(b) if only Conclusion II follows
(c) if either Conclusion 1 or II follows
(d) if neither Conclusion I nor II follows
(e) if both Conclusions I and II follow

24) 1. Study 2. Earn
3. Job 4. Examination
5. Apply

a) 2 – 3 – 4 – 5 – 1
b) 1 – 4 – 5 – 2 - 3
c) 2 – 3 – 5 – 1 – 4
d) d) 1 – 4 – 5 – 3 – 2

25) 1. District 2. Block
3. Village 4. State
5. Country

a) 3 – 2 – 1 – 4 – 5
b) 3 – 2 – 1 – 5 – 4
c) 3 – 1 – 2 – 4 – 5
d) 5 – 4 – 1 – 3 – 2

26) Pointing to a man, a lady said, "His mother is the only daughter of my mother". How is the lady related to the man?

(a) Mother (b) Daughter
(c) Sister (d) Aunt

27) Arun said, "Deepak's mother is the mother of my father's wife". How is Deepak related to Arun ?

(a) Brother (b) Father's brother
(c) Grandfather (d) Mother's brother

28) Introducing a man to her husband, a woman said, "His brother's father is the only son of my grandfather". How is the woman related to the man?

(a) Mother-in-law (b) Sister
(c) Daughter (d) Sister-in-law
(e) None of these

29) A person starts walking from his home in west direction and after walking 20 meter he took a left turn and walk 30 meters. Now he took a right turn and walks 10 meter to reach the bus stand. Find the distance between home and stand

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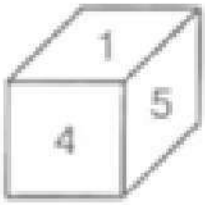
a) 20√2 b) 30√2
c) 40√2 d) 50√2
e) None of these

30) What will be the digit on the opposite face of the particular face having digit 4 in the dice given below?



a) 3
b) 1
c) 2
d) 6

IV. General Awareness (20 Questions)

Indian History

Q1: The Battle of Plassey was fought in which year? a) 1757 b) 1764
c) 1776 d) 1784

Q2: Who among the following was known as "Frontier Gandhi"?
a) Mahatma Gandhi
b) Khan Abdul Ghaffar Khan
c) Sardar Vallabhbhai Patel
d) Jawaharlal Nehru

Indian Geography

Q3: Which of the following is the longest river in India?
a) Brahmaputra b) Godavari
c) Ganga d) Indus

Q4: The 'Silent Valley' National Park is in which Indian state?
a) Karnataka b) Kerala
c) Tamil Nadu d) Andhra Pradesh

Indian Polity & Constitution

Q5: Who is the ex-officio Chairman of the Rajya Sabha?
a) President of India
b) Prime Minister of India
c) Vice-President of India
d) Speaker of Lok Sabha Correct

Q6: How many Fundamental Duties are enshrined in the Indian Constitution?
a) 8 b) 9
c) 10 d) 11

Indian Economy

Q7: The Reserve Bank of India (RBI) was established in which year?
a) 1935 b) 1947
c) 1949 d) 1950

Q8: What is the full form of GST in the Indian tax system?
a) Goods and Services Tax
b) General Sales Tax
c) Government Service Tax
d) Grand Sales Tax

Current Affairs

Q9: Which major infrastructure project saw MHADA sign a pact with the Adani Group in Mumbai on July 7, 2025? a) Dharavi Redevelopment Project
b) Navi Mumbai International Airport
c) Motilal Nagar colonies in Goregaon
d) Mumbai Trans Harbour Sea Link

Q10: What significant weather-related event was reported in Himachal Pradesh around July 7, 2025, leading to rescue operations?
a) Severe Heatwave
b) Cyclonic Storm
c) Cloudbursts and flash floods
d) Major Earthquake

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Q11: Which Indian institution recently launched the BHARAT (Biomarkers of Healthy Aging, Resilience, Adversity, and Transitions) initiative under its Longevity India Program?
a) All India Institute of Medical Sciences (AIIMS) New Delhi
b) Indian Institute of Science (IISc), Bengaluru
c) Homi Bhabha National Institute (HBNI), Mumbai
d) Bose Institute, Kolkata

Q12: Indian astronaut Shubhanshu Shukla recently interacted with students from the International Space Station (ISS) using which radio service?
a) Citizens band radio (CB radio)
b) MicroMobile Radio
c) Walkie-Talkies
d) Amateur radio (Ham radio)

Q13: Which international event, where India's Prime Minister participated, welcomed Indonesia as a full member around July 7, 2025?
a) G7 Summit
b) SCO Summit
c) 17th BRICS Summit
d) ASEAN Summit

Q14: What significant astrological event occurred on July 7, 2025, which astrologers predict will bring important changes for certain zodiac signs?
a) Lunar Eclipse
b) Solar Eclipse
c) Uranus entered Gemini
d) Mercury Retrograde

Current Affairs / Static GK

Q15: The Headquarters of the United Nations (UN) is located in:
a) Geneva b) New York
c) Paris d) Washington D.C.

Q16: Which Indian city is known as the "Pink City"?
a) Mumbai b) Jaipur
c) Delhi d) Kolkata

Q17: The Dadasaheb Phalke Award is associated with which field?
a) Literature b) Sports
c) Cinema d) Science

Q18: Which country recently (as of 2025) hosted the Summer Olympics?
a) Japan (Tokyo) b) France (Paris)
c) USA (Los Angeles) d) Australia (Brisbane)

Q19: India's first fully indigenous aircraft carrier is named:
a) INS Vikrant b) INS Vikramaditya
c) INS Viraat d) INS Arihant

Q20: Who is the current Union Minister of Railways in India?
a) Nitin Gadkari b) Piyush Goyal
c) Ashwini Vaishnaw d) Sarbananda Sonowal

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