

# RRB Previous Question Paper

1. \_\_\_\_\_ is electrically neutral and weakly interacting subatomic particle.  
\*A. Neutrino                      B. Positron  
C. Electron                        D. Proton
2. Which of the following hormone is not secreted by Thyroid gland?  
A. Thyroxine                      B. Calcitonin  
C. Triiodothyronine            \*D. Thymosin
3. Discoverer of Anti-Malarial drugs is being conferred Nobel prize for Medicine (2015). From which medicinal plant is this drug extracted  
\*A. Artemisinin (Ajwain)  
B. Turmeric (Haldi)  
C. Garlic (Lahsoon)  
D. Ginger (Adrak)
4. If  $a^2+b^2+c^2+3 = 2(a+b+c)^3$  then the value of  $(a+b+c)$  is;  
A. 2                                      B. 5  
C. 4                                      \*D. 3
5. Sweat Glands are present in which of the following human body parts?  
A. Kidney                              B. Liver  
C. Pancreas                        \*D. Skin
6. If  $\sqrt{225} = 15$ ; then  $(\sqrt{0.00000225}) / 15$  is:  
A. 0.0015                              B. 0.001  
\*C. 0.0001                            D. 0.015
7. A number when divided by 627 leaves remainder 43. By dividing the same number by 19, the remainder will be:  
\*A. 5                                      B. 18  
C. 13                                      D. 7
8. Read the statements and select a conclusion from the given alternatives:  
**Statements:**    Some owls are ostriches  
                          Some ostriches are crows  
                          Some crows are black  
**Conclusion:**  
1. Some owls are black
2. No ostrich is black  
3. No owl is black  
4. Some ostriches are black  
A. Either 2 or 4  
B. Only 1 and 2 follow  
\*C. Either 1 or 3 and either 2 or 4  
D. Either 1 or 3
9. Read the statements and select a conclusion from the given alternatives:  
**Statements:** In a recent survey report, it has been stated that those who intake green vegetables everyday are less prone to have any heart ailments.  
**Conclusions:**  
I. Eating green vegetables is necessary for leading a healthy life.  
II. All people who do desk-bound jobs definitely suffer from heart ailments.  
\*A. Only conclusion I follows  
B. Only conclusion II follows  
C. Either I or II follows  
D. Neither I nor n follows
10. In a certain code language, if EXTRANET is coded as 9\*416394 and TECHNOLOGY is coded as 492735850#, then TOLERANCE will be coded as?  
A. 458913629                      B. 459813629  
\*C. 458916329                      D. 549816329
11. Which of the following is not a vector quantity?  
A. Momentum                      B. Moment of a force.  
\*C. Electric current                D. Displacement
12. How many members of Rajya Sabha are nominated by the President of India?  
\*A. 12                                      B. 10  
C. 8                                        D. 6
13. If a packet containing of ten glass mirrors is thrown, Which of the following cannot be the ratio of broken: unbroken mirrors?  
A. 8:2                                      \*B. 5:4  
C. 1:1                                      D. 2:3

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14. Mukesh purchased a bike of marked price Rs.20000 at successive discounts of Rs.10% & 15% respectively. He spent Rs.700 on insurance and repairs and sold it on Rs.20000. Calculate the Gain %.
- A. No Gain                      \*B. 25%  
C. 30%                            D. 35%
15. Let  $2 \times 6\% \times 7 = 33, 4 \times 6\% \times 8 = 54$ , then what will be the value of  $6\% \times 8 \times 9$
- A. 77                              \*B. 95  
C. 99                              D. 94
16. If  $x + \sqrt{x} = 90$ ; Find the value of x.
- \*A. 81                              B. 64  
C. 80                              D. 72
17. Name the Senior advocate who headed one man commission on the Indo-Bangladesh boundary issue?
- A. H.L.Dattu  
\*B. Upamanyu Hazarika  
C. Vijenderjain  
D. Ramesh Chandra Lahoti
18. What is the full form of CFC?
- \*A. Chlorofluoro Carbon  
B. Chlorofluoro Carbide  
C. Chlorine Flourine Carbondioxide  
D. Carbofluoro Chloride
19. Which network topology requires a "Hub" for its working?
- A. Ring                            B. Bus  
\*C. Star                            D. Both Bus and Star
20. Consider the following information: + stands for  $\times$ , - for  $\div$ ,  $\times$  for - and  $\div$  for +, then find the value  $5 \times 4 - 6 \div 3 + 1 = ?$
- A. 19                              B. 8.33  
C. 733                            \*D. -1
21. Kaveri takes twice as much time as Kanchana and thrice as much as Kalpana to complete a piece of work. If they all work together, the work is completed in one day. Calculate the time taken by Kalpana alone to finish the task?
- A. 6 days                        \*B. 2 days  
C. 3 days                        D. 9 days
22. Four pair of words are given below out of which three are alike in some manner and one pair is different Which is different from the rest?
- A. Broad: Wide                \*B. Light: Heavy  
C. Tiny: Small                D. Big: Large
23. Manish took two loans for Rs.2000 each for 2 years at 5% Simple Interest and 5% Compound Interest per annum respectively. Calculate the difference (in Rs.) between the Compound Interest and Simple Interest.
- \*A. Rs.5                            B. Rs.50  
C. Rs.25                        D. Rs.15
24. Optical Character Reader (OCR) is an example of?
- A. Output Device.            \*B. Input Device  
C. Interface Device        D. Storage Device
25. The national emblem of India was adopted by the Government of India on:
- A. 15<sup>th</sup> August 1947        B. 14<sup>th</sup> August 1947  
\*C. 26<sup>th</sup> January 1950     D. 20<sup>th</sup> August 1950
26. Calculate the compound interest on Rs.5000 for 3 years at a rate of 10% per annum
- \*A. 1655                        B. 1500  
C. 1600                        D. 1800
27. Which one is the World's oldest web browser?
- \*A. WorldWideWeb        B. Mosaic  
C. Opera                        D. Netscape
28. If 18, x, 72 are in a continued proportion, find x.
- \*A. 36                              B. 54  
C. 18                              D. 72

## RRB Previous Question Paper

29. Sputnik 1 was launched by which of the following countries?  
A. USA                                      B. UK  
\*C. USSR                                      D. France
30. Read the statements and select a conclusion from the given alternatives:  
**Statements:** Money plays a vital role in politics.  
**Conclusions:**  
I. The poor can never become politicians.  
II. All the rich men take part in politics.  
A. Only conclusion I follows  
B. Only conclusion II follows  
C. Either I or II follows  
\*D. Neither I nor II follows
31. In 2001 the production of sugar is 1584 million kgs which is 20% less than that in 1991. Find the production (in million kgs) of sugar in 1991.  
\*A. 1980                                      B. 1280  
C. 1900                                      D. 1920
32. Read the statements and select a conclusion from the given alternatives: Statements: Gold prices are soaring in the market.  
**Conclusions:**  
I. Gold is becoming a rare commodity.  
II. People cannot buy Gold.  
A. Only conclusion I follows  
B. Only conclusion II follows  
C. Either I or II follows  
\*D. Neither I nor II follows
33. In Forbes "The World's Most Powerful People" 2018 list, which Indian holds a position in the Top 10?  
\*A. Narendra Modi                      B. Mukesh Ambani  
C. Sundar Pichai                      D. Satya Nadella
34. A car moves from tan A to B at a speed of 60 km/hr and comes back at a speed of 40 km/hr. Find the average speed (in km/hr) of car.  
A. 50                                      B. 45  
\*C. 48                                      D. 52
35. If  $\sqrt{3} \tan \theta = 1$ , then find the value  $\cos 2\theta$ .  
\*A.  $\frac{1}{2}$                                       B.  $\frac{1}{3}$   
C.  $\frac{1}{3}$                                       D. 1
36. Osama bin Laden was killed in 2011 in which of the following country?  
\*A. Pakistan                              B. Sudan  
C. Afghanistan                      D. Iran
37. If  $\sqrt{9} = 3$ ; then  $9/\sqrt{3}$  is:  
A. 3                                      B.  $3/\sqrt{3}$   
\*C.  $3\sqrt{3}$                               D.  $\sqrt{3}\sqrt{3}$
38. The first Hindi newspaper was started on 30<sup>th</sup> May 1826; this day is also celebrated as the "Hindi Journalism Day". What was the name of the newspaper?  
A. Bengal Gazette  
B. Amar Ujala  
\*C. Udan Martand  
D. Samachar Sudha Varshan
39. Name the defending race winner of '2015 Chinese Grand Prix' at the Shanghai International Circuit. It was his 4<sup>th</sup> Chinese Grand Prix win and overall 35<sup>th</sup> Grand Prix win.  
A. Sebastian Vettel                      B. Romain Grosjean  
C. Jolyon Palmer                      \*D. Lewis Hamilton
40. Shortcut Key Alt + Enter is used for?  
A. Shift from one program to another.  
\*B. Display properties for the selected item.  
C. Open new tab in different window  
D. Force shutdown of system
41. If the circumference of a circle is  $\pi d$ , then What is its area?  
\*A.  $\pi d^2/4$                               B.  $2\pi d$   
C.  $\pi d^2/2$                               D.  $\pi d^2$
42. Chitrakote falls on the Indravati river often regarded as the Niagara falls of India is located in \_\_\_\_\_.  
A. Madhya Pradesh \*B. Chhattisgarh  
C. Uttarakhand                      D. Jharkhand

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43. If in a certain language, REVERT is coded as EREVTR, how is REPAIR coded in that code?

- A. RAEPRI                      B. AERPRI  
\*C. ERAPRI                    D. ERAPIR

Nail Enamels	5.93	37.76
Talcum Powder	14.97	29.14
Shampoos	7.88	12.21
Conditioners	5.01	10.19

**Sub-Question No: 46**

44. The monthly salary of Rohit and Sachin are in the ratio of 5:7 and their expenditure is in the ratio 2:3. If the monthly savings for both men are Rs.1000, then calculate the salary (in Rs.) for Rohit?

- A. 3500                      \*B. 5000  
C. 7000                      D. 4000

Sales of Packs in Lakhs nos

### Comprehension:

Study the table and answer the questions:

Cosmetic company L o'real provides five different products. The sales of these five products (in lakh number of packs) during 1995 and 2000 are shown in the following bar graph.

Sales of Packs in Lakhs nos

Product	1995	2000
Lipsticks	20.15	48.17
Nail Enamels	5.93	37.76
Talcum Powder	14.97	29.14
Shampoos	7.88	12.21
Conditioners	5.01	10.19

**Sub-Question No: 45**

45. What is the approximate ratio of the sales of Loreal nail enamels in 2000 to the sales of L o'real Talcum powders in 1995?

- A. 7:2                      \*B. 5:2  
C.43                      D. 2:1

### Comprehension:

Study the table and answer the questions:

Cosmetic company L o'real provides five different products. The sales of these five products (in lakh number of packs) during 1995 and 2000 are shown in the following bar graph.

46. During the period 1995-2000, the minimum rate of increase in sales is in the case of?
- A. L o'real Lipsticks
  - B. L o'real Nail enamels
  - C. L o'real Talcum powders
  - \*D. L o'real Shampoos

Talcum Powder	14.97	29.14
Shampoos	7.88	12.21
Conditioners	5.01	10.19

**Comprehension:**

Study the table and answer the questions:  
Cosmetic company L o'real provides five different products. The sales of these five products (in lakh number of packs) during 1995 and 2000 are shown in the following bar graph.  
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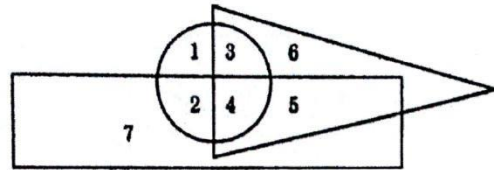
Product	1995	2000
Lipsticks	20.15	48.17

**Sub-Question No: 47**

47. The sales have increased by nearly 55% from 1995 to 2000 in the case of?
- A. L o'real Lipsticks
  - B. L o'real Nail enamels
  - C. L o'real Talcum powders
  - \*D. L o'real Shampoos

**Comprehension:**

Study the figure and answer the questions:  
In the figure given below, the circle represents old persons, the triangle represents educated persons and the rectangle represents unemployed persons.



## RRB Previous Question Paper

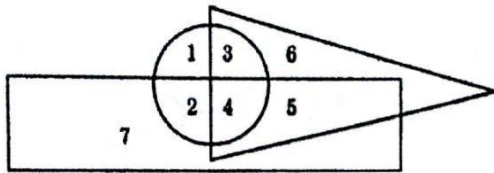
### Sub-Question No: 48

48. Which region represents old, educated and unemployed persons? 8
- A. 6  
 B. 5  
 \*C. 4  
 D. 3

### Comprehension:

Study the figure and answer the questions:

In the figure given below, the circle represents old persons, the triangle represents educated persons and the rectangle represents unemployed persons.



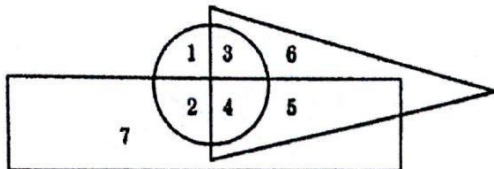
### Sub-Question No: 49

49. The region which represents uneducated, unemployed and old persons, is denoted by 9
- \*A. 2  
 B. 3  
 C. 4  
 D. 5

### Comprehension:

Study the figure and answer the questions:

In the figure given below, the circle represents old persons, the triangle represents educated persons and the rectangle represents unemployed persons.



### Sub-Question No: 50

50. Which region represents old, uneducated and employed persons?
- A. 7  
 B. 4  
 \*C. 1  
 D. 5

51. When was the "All India Muslim League" founded?
- A. 1905  
 B. 1906  
 C. 1914  
 D. 1918

52. Four pair of words are given below out of which three are alike in some manner and one

pair is different Which is different from the rest?

- \*A. Needle: Prick  
 B. Gun: Fire  
 C. Auger: Bore  
 D. Chisel: Carve

53. A man buys a car for Rs.100000, spends Rs.20000 for maintenance and insurance. Then he sells the car for Rs.80000; Calculate profit/lost and its percentage.

- A. Profit, 50%  
 B. Loss, 50%  
 C. Profit, 33.53%  
 \*D. Loss, 33.33%

54. A complete angle is equal to?

- A.  $90^\circ$   
 B.  $180^\circ$   
 C.  $270^\circ$   
 \*D.  $360^\circ$

55. If Selling Price is Rs.100 & Gain Percent = 25%, Calculate the Cost Price.

- \*A. Rs.80  
 B. Rs.75  
 C. Rs.125  
 D. Rs.70

56. Pointing to a photograph. Romi said, "I have no brother or sister but that man's father is my father's son." Whose photograph was it?

- A. His own  
 B. His son's  
 C. His father's  
 D. His nephew's

57. Which of the following is NOT True about Indian rivers?

- A. Himalayan rivers are perennials  
 B. Peninsular rivers are seasonal  
 \*C. Himalayan rivers form very small deltas  
 D. The volume of water in peninsular rivers is less

58. Kyoto Protocol's first commitment period started in 2008 and ended in:

- A. 2010  
 B. 2012  
 C. 2011  
 D. 2013

59. Internal pacemaker is located in which of the following parts of human body?

- A. Brain  
 B. Heart  
 C. Kidney  
 D. Liver

60. Under "Pradhan Mantri Swasthya Suraksha Yojana, three new All India Institutes of Medical Sciences (AUMS) will be set up at

## RRB Previous Question Paper

\_\_\_\_\_, Manglagiri & \_\_\_\_\_ in Maharashtra, Andhra Pradesh & West Bengal respectively.

A. Aurangabad, Kalyani

B. Nashik, Kalyani

\*C. Nagpur, Kalyani

D. Nashik, Durgapur

61. Read the statements and select a conclusion from the given alternatives:

**Statements:** Some doors are shelves. All the shelves are windows.

**Conclusions:**

1) Some doors are windows.

2) No shelf is door.

\*A. Only (1) conclusion follows

B. Only (2) conclusion follows

C. Either (1) or (2) follows

D. Neither (1) nor (2) follows

62. In a certain code language, if TELEPHONE is coded as 538396473 and BROKE is coded as 12403. then THRONE will be coded at?

A. 654237

B. 562437

C. 624375

\*D. 562473

63. Who is known as the "Father of modern Chemistry"?

A. Ernest Rutherford B. Otto Hahn

C. Dmitri Mendeleev \*D. Antoine Lavoisier

**Comprehension:**

**Read the following passage and answer the questions that follow.**

Six students Anil, Binu, Chirag, Devi, Evan, and Farah are sitting in a classroom. Anil and Binu are from Red House, while the rest belong to the Green House. Devi and Farah are tall while the others are short. Anil, Chirag and Devi are wearing glasses while the others are not.

**Sub-Question No: 64**

64. Which short student of Green House is not wearing glasses? 4

A. Farah

\*B. Evan

C. Binu

D. Anil

**Comprehension:**

**Read the following passage and answer the questions that follow.**

Six students Anil, Binu, Chirag, Devi, Evan, and Farah are sitting in a classroom. Anil and Binu are from Red House, while the rest belong to the Green House. Devi and Farah are tall while the others are short. Anil, Chirag and Devi are wearing glasses while the others are not.

**Sub-Question No: 65**

65. Which tall student of Green House is not wearing glasses?

A. Binu

B. Chirag

C. Evan

\*D. Farah

**Comprehension:**

Read the following passage and answer the questions that follow.

Six students Anil, Binu, Chirag, Devi, Evan, and Farah are sitting in a classroom. Anil and Binu are from Red House, while the rest belong to the Green House. Devi and Farah are tall while the others are short. Anil, Chirag and Devi are wearing glasses while the others are not.

**Sub-Question No: 66**

66. Which two students, who are not wearing glasses, are short?

A. Anil and Farah

B. Chirag and Evan

\*C. Binu and Evan

D. Evan and Farah

67. Pointing to Ambika, Rituraj said, "The son of her only brother is the brother of my wife."

How is Ambika related to Rituraj?

A. Mother's sister

B. Grandmother

C. Mother-in-law

\*D. Sister of father-in-law

68. A & B can finish a work in 10 days, B & C in 15 days and A & C in 20 days. In how many days would B alone can finish the work?

A. 20

\*B. 24

C. 40

D. 60

69. What is the reason for difference in the atomic masses of isotopes of an element?

A. Different number of Protons in their nuclei.

\*B. Different number of neutrons in their nuclei

C. Different number of electrons in their nuclei

D. Different number of valence electrons.

## RRB Previous Question Paper

70. Read the statements and select a conclusion from the given alternatives:

**Statements:**

Some monkeys are donkeys

All donkeys are yellow

Some yellow are blue

**Conclusion:**

1. All donkeys are yellow

2. Some blue are yellow

3. Some donkeys are blue

4. All yellow are donkeys

A. Only either 1 or 4 and 3 follows

B. Only either 1 or 4 follows

C. Only either 1 or 4 and 2 follows

\*D. Both 1 and 2 follow

71. If in a certain language, MOON is coded as OMNO, how is STAR coded in that code?

A. TARS

B. TRSA

C. ATSR

\*D. TSRA

72. A man has to pack certain number of small boxes into parcels. If he packs 3,4,5 or 6 small boxes in each parcel, he is left with one extra box. However, if he packs 7 boxes in each parcel, none is left over. Calculate the available number of small boxes with him?

\*A. 301

B. 105

C. 154

D. 405

73. Which two country played the first ever day-night cricket Test match at Adelaide Oval?

A. Australia & South Africa

\*B. Australia & New-Zealand

C. Australia & England

D. Australia & West Indies

74. Name the President of India who exercised the Pocket Veto with respect to the Indian Post Office (Amendment) Bill in 1986.

A. Rajendra Prasad

B. Neelam Sanjiva Reddy

C. Shankar Dayal Sharma

\*D. Gyani Zail Singh

75. Insert the missing character in?

2	4	0
1	2	4
3	1	3
36	?	91

A. 25

B. 59

C. 48

\*D. 73

76. 54 is to be divided into two parts such that the sum of 10 times the first and 22 times the second is 780. The bigger part is:

\*A. 34

B. 28

C. 32

D. 36

77. A train has an average speed of 45 km/hr without stoppages and 36 km/hr including stoppage time. Calculate the average stopping time (in minutes) per hour for the train.

A. 9

B. 15

\*C. 12

D. 10

78. Match the following quantity with correct SI unit:

**Quantity**

P) Angle

Q) Magnetic Induction

R) Magnetic Flux

S) Solid angle

**SI unit**

a. Radian

b. Henry

c. Weber

d. Steradian

\*A. P-a, Q-b, R-c, S-d B. P-a, Q-c, R-b, S-d

C. P-d, Q-b, R-c, S-a D. P-d, Q-c, R-b, S-a

79. The expenses of a person increases by Rs. 10000 for every month in February and March. If his expenses in January was Rs. 10000 Calculate his average expenditure (in Rs.) from Jan to March.

\*A. 20000

B. 15000

C. 10000

D. 25000

80. Armaan introduces Ramesh as the son of the only brother of his father's wife. How is Ramesh related to Armaan?

\*A. Cousin

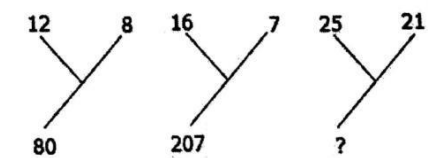
B. Son

C. Uncle

D. Son-in-law



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81. Consider the following statements & choose the correct option.  
 1. To find out whether a star is approaching us or receding away from us.  
 2. For detecting flaws in the interiors of solids, mapping underground structures for oil & mineral deposits.  
 A. Both 1 & 2 are application of principle of resonance.  
 \*B. 1 is the application of Doppler Effect and 2 is the application of principle of echo.  
 C. 1 is the application of principle of echo and 2 is the application of Doppler Effect  
 D. Both 1 & 2 are application of principle of Doppler Effect
82. Four pair of words are given below out of which three are alike in some manner and one pair is different Which is different from the rest?  
 A. Captain: Team  
 B. Boss:Gang  
 C. Prime Minister: Cabinet  
 \*D. Artist: Troupe
83. Which of the following feet is not true about Kumbhalgarh Fort, Rajasthan?  
 A. Presently it is located in Rajsamand district of Rajasthan.  
 B. It is a UNESCO World Heritage Site included in the Hill Forts of Rajasthan.  
 C. The walls of the fort of Kumbhalgarh is the second largest wall in the World after the Great Wall of China  
 \*D. The fort is located on a hill top on the great Satpura mountain ranges.
84. If average cost price of 40 pens is Rs.10 and average cost price of 30 pencils is Rs.2. If all items are sold for Rs.560, then the average selling price per article would be:  
 \*A. Rs.8                                      B. Rs.7  
 C. Rs.7.50                                    D. Rs.10
85. Which of the following missile is the first tactical surface-to-surface missile of India?  
 A. Agni                                        B. Akshay  
 \*C. Prithvi                                     D. Brahmos
86. Four pair of words are given below out of which three are alike in some manner and one pair is different. Which is different from the rest?  
 A. Twigs: Nest                                B. Wood: Furniture  
 \*C. Pitcher: Pottery D. Gold: Ornaments
87. Jeleppla and Nathula passes are located in which of the following states?  
 \*A. Sikkim                                      B. Uttarakhand  
 C. Himachal Pradesh    D. Jammu & Kashmir
88. Measles are caused by?  
 A. Bacteria                                      \*B. Virus  
 C. Fungus                                        D. Rats
89. In a right-angled triangle, the longest side is 2 cm more than the middle side and the middle side is 2 cm more than the shortest side. Calculate the length of the longest side?  
 A. 6cm    B. 9 cm  
 \*C. 10 cm                                        D. 8 cm
90. Insert the missing character in?  
  
 \*A. 184    B. 210  
 C. 241    D. 425
91. When exposed to sunlight our skin gets darker due to presence of?  
 A. Karotene                                    B. Oxylophytes  
 \*C. Melanin                                     D. Flavoxanthin
92. Vidyapati was a well-known poet and writer of which of the following Languages?  
 A. Bhojpuri                                      B. Dogri  
 \*C. Maithili                                      D. Marathi
93. Indian sport person Abhishek Verma is related with \_\_\_\_\_  
 A. Snooker                                      B. Shot-put

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- \*C. Archery                      D. Chess
94. Satellite which carry life in space is called?  
 \*A. Biosatellite  
 B. Miniaturized satellite  
 C. spy satellite  
 D. Tether satellite
95. \_\_\_\_\_ was the first dog to travel in outer space.  
 A. Tommy                      B. Roxter  
 \*C. Laika                      D. Dexoger
96. One quarter of one-seventh of a land is sold for Rs.30000. Calculate the value of eight- thirty fifth of the land.  
 \*A. 192000                      B. 212000  
 C. 36404                      D.152000
97. The sum of two numbers is 56 and their LCM is 105. Find the numbers  
 A. 34,22                      \*B. 35,21  
 C. 7,49                      D. 1,55
98. The value of  $\tan 30^\circ$  is:  
 A.  $\sqrt{3}$                       B.  $\sqrt{3}/2$   
 \*C.  $1/\sqrt{3}$                       D. 1
99. Saina won 18 games out of 27 games played. Calculate the games lost in terms of decimal  
 \*A. 0.333                      B. 0.033  
 C. 0.50                      D. 0.667
100. If  $40x^2 = 334^2 - 134^2$ , then find the value of  $x^2$  is:  
 \*A. 2340                      B. 234  
 C. 1234                      D. 144

### ANSWER KEY

1. A	2. D	3. A	4. D	5. D	6. C	7. A	8. C	9. A	10. C
11. C	12. A	13. B	14. B	15. B	16. A	17. B	18. A	19. C	20. D
21. B	22. B	23. A	24. B	25. C	26. A	27. A	28. A	29. C	30. D
31. A	32. D	33. A	34. C	35. A	36. A	37. C	38. C	39. D	40. B
41. A	42. B	43. C	44. B	45. B	46. D	47. D	48. C	49. A	50. C
51. B	52. A	53. D	54. D	55. A	56. B	57. C	58. B	59. B	60. C
61. A	62. D	63. D	64. B	65. D	66. C	67. D	68. 0	69. B	70. D
71. D	72. A	73. B	74. D	75. D	76. A	77. C	78. A	79. A	80. A
81. B	82. D	83. D	84. A	85. C	86. C	87. A	88. B	89. C	90. A
91. C	92. C	93. C	94. A	95. C	96. A	97. B	98. C	99. A	100. A