RRB NTPC Previous Year Paper 01

Direction (1-3): Use the following passage for the questions based on it.

Rahul and Kusum are good in Hindi and Maths. Sameer and Rahul are good in Hindi and Biology. Gita and Kusum are good in Marathi and Maths. Sameer, Gita and Mihir are good in History and Biology.

Q1. Who is good in both Biology and Marathi?
(a) Gita
(b) Kusum
(c) Sameer
(d) Mihir

Q2. Who is good in only Hindi, Marathi and Maths?
(a) Sameer
(b) Rahul
(c) Kusum
(d) Gita

Q3. Who is good in Maths, Biology and Hindi?
(a) Gita
(b) Rahul
(c) Sameer
(d) Mihir

Q4. Given below is a statement followed by some conclusions. You have to take the given statement to be true even if it seems to be at variance with the commonly known facts and then decide which of the given conclusions logically follow(s) from the given statement.
Statement:
Hrithik, in spite of his busy schedule, finds time to rest.
Conclusions:
I. Hrithik is an organized person.
II. Rest is the most important thing for a busy person.
Decide the right option from below.
(a) Only conclusion I follows
(b) Only conclusion II follows
(c) Both I and II follow
(d) Neither of them follows

Q5. Which among the following is true for the given numbers?
(a) 13/33 < 32/47 < 20/47 < 25/27
(b) 13/33 < 20/47 < 25/27 < 32/47
(c) 13/33 < 20/47 < 32/47 < 25/27
(d) 20/47 < 13/33 < 32/47 < 25/27

Q6. The colour of solid Iodine is–
(a) White
(b) Colorless
(c) Purplish Grey to Black
(d) Reddish Brown

Q7. Find the LCM of 25/7, 15/28, 20/21.
(a) 300/7
(b) 300
(c) 320/23
(d) 320

Q8. Who was the last emperor of the Mauryan Dynasty?
(a) Chandragupta
(b) Ashoka
(c) Brihadratha
(d) Shatadhanvan

Q9. X is 5 ft tall and he notices that he casts a shadow that's 3 ft long. He then measures that the shadow cast by his school building is 30 ft long. How tall is the building?
(a) 50 ft
(b) 18 ft
(c) 90 ft
(d) 150 ft

Q10. 3 chairs and 2 tables cost Rs. 700 and 5 chairs and 3 tables cost Rs. 1100. What is the cost of 1 chair and 2 tables?
(a) 350
(b) 400
(c) 500
(d) 550

Q11. The LCM of two numbers is 210. If their HCF is 35 and one of the numbers is 105, find the other number.
(a) 35
(b) 70
(c) 105
(d) 140

Q12. Working alone, A can do a job in 15 days and B can do the same job in 18 days. In how many days will the job be completed if both work together?
(a) 10/3 days
(b) 90/11 days
(c) 5/36 days
(d) 15 days

Q13. In 2015, _____, a new species of the genus Homo was discovered in the Dinaledi Chamber of the Rising star cave system, Cradle of Humankind, South Africa.
(a) Homo naledi
(b) Homo erectus
(c) Homo habilis
(d) Homo rudolfensis

Q14. Given below is a statement followed by some conclusions. You have to take the given statement to be true even if it seems to be at variance with the commonly known facts and then decide which of the given conclusions logically follow(s) from the given statement.
Statement:
All hard-working people are successful.
Conclusions:
I. All successful people are hard-working.
II. Only hard work can guarantee success in life.
Decide the right option from below.
(a) Only conclusion I follows
(b) Only conclusion II follows
(c) Both I and II follow
(d) Neither of them follows

Q15. In a web browser, which of the following is used to save frequently visited websites?
(a) History
(b) Task Manager
(c) Favorites
(d) Save as

Q16. The Khajuraho Group of Monuments is a UNESCO World Heritage Site located in–
(a) Madhya Pradesh
(b) Uttar Pradesh
(c) Uttarakhand
(d) Chattisgarh

Q17. If '+' means ×, '−' means ÷ , '×' means + and '÷ ' means – ; compute the value of the expression:
45−9+4×5
(a) 21
(b) 25
(c) 26
(d) 23

Q18. On which lake is the Golden Temple located?
(a) Amrit Sarovar Lake
(b) Golden Lake
(c) Harike Lake
(d) Sukhna Lake

Q19. If three numbers are in the ratio of 1:3:5 and their sum is 10,800. Find the largest of the three numbers.
(a) 1200
(b) 3600
(c) 6000
(d) 5400

Q20. If A = 1 and PAT = 37, then PART =
(a) 55
(b) 52
(c) 51
(d) 54

Q21. A positive number exceed its positive square root by 30. Find the number.
(a) 16
(b) 36
(c) 25
(d) 49

Q22. A car travels at the speed of 50 km/hr for the first half of the journey and at the speed of 60 km/hr for the second half of the journey. What is the average speed of the car for the entire journey?
(a) 54.54 km/hr
(b) 36.36 km/hr
(c) 50.5 km/hr
(d) 45.45 km/hr

Q23. In 2016, who has partnered with ISRO to use space technology for 'predictive policing'?
(a) Delhi Police
(b) Mumbai Police
(c) Chennai Metropolitan Police
(d) Kolkata Police

Q24. Which of the following technological inventions came first?
(a) Telegraph
(b) Telescope
(c) Telephone
(d) Teletype

Q25. Rita introduced Seema as her mother's father's only son's daughter. How is Rita related to Seema?
(a) Cousin
(b) Paternal Aunt
(c) Niece
(d) Maternal Aunt

Q26. Which art form was Mrinalini Sarabhai associated with?
(a) Pattachitra
(b) Tanjore Painting
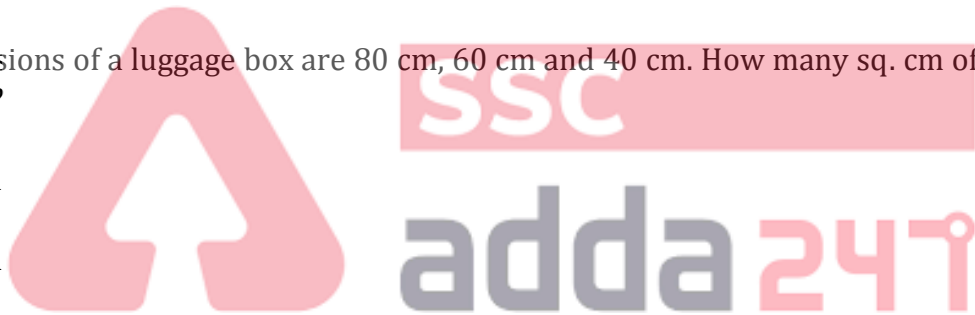(c) Bharatnatyam
(d) Madhubani Painting

Q27. Choose the pair which is related in the same way as the words in the first pair from the given choices.
INDIA: TIGER :: USA : _____
(a) UNICORN
(b) BALD EAGLE
(c) TURUL
(d) DRUK

Q28. The dimensions of a luggage box are 80 cm, 60 cm and 40 cm. How many sq. cm of cloth is required to cover the box?
(a) 10400 sq. cm
(b) 20800 sq. cm
(c) 20400 sq. cm
(d) 10200 sq. cm

Q29. The sum of digits of a two-digit number is 10. When the digits are reversed, the number decreases by 54. Find the changed number.
(a) 73
(b) 28
(c) 82
(d) 37

Q30. Th incomes of A and B are in the ratio of 3:2 and their expenditures are Rs. 14,000 and Rs. 10,000 respectively. If A saves Rs. 4000, then B's savings will be:
(a) Rs. 4000
(b) Rs. 2000
(c) Rs. 3000
(d) Rs. 5000

Q31. Ganesh said, "Anjali is my paternal grandfather's only daughter-in law's only granddaughter". Ganesh is single and has only one sibling, i.e., an elder sister. How is Ganesh related to Anjali?
(a) Maternal Uncle
(b) Paternal Uncle
(c) Cousin
(d) Nephew

Q32. Which of the following type of rays does NOT penetrate Earth's atmosphere?
(a) Visible Light
(b) X-rays
(c) Ultraviolet Rays
(d) Radio Waves

Q33. Simplify: $(2/9 + 3/5) \div (2/9 + 2/5)$
(a) 37/28
(b) 47/43
(c) 43/47
(d) 41/47

Q34. The first captain of the Indian Cricket team for One Day International was –
(a) Ajit Wadekar
(b) Sunil Gavaskar
(c) Kapil Dev
(d) C K Nayudu

Q35. The principle of regarding the beliefs, values, and practices of the culture from the viewpoint of that culture itself is called–
(a) Cultural Functionalism
(b) Cultural Relativism
(c) Cultural Independence
(d) Cultural Interdependance

Q36. Rearrange the following jumbled sentences to make a meaningful one:
P: are inhibiting progress
Q: they look for creative
R: rather than the conventional solution of outsourcing
S: solutions to problems that
The proper sequence should be:
(a) SRQP
(b) QSPR
(c) PQRS
(d) QRPS

Q37. P is twice as efficient as Q. Q takes 12 days to complete a job. If both of them work together, how much time will they take to complete the job?
(a) 6 days
(b) 5 days
(c) 4 days
(d) 3 days

Q38. In January 2016, Indian Defence Minister hoisted the world's largest tri-colour on the tallest flag-post at–
(a) New Delhi
(b) Jaipur
(c) Ranchi
(d) Leh

Q39. What is the median of the following list of numbers: 5, 3, 6, 9, 11, 19, and 1 ?
(a) 5
(b) 6
(c) 9
(d) 11

Q40. A sold a toy to B at a profit of 15%. Later on, B sold it back to A at a profit of 20%, thereby gaining Rs. 552. How much did A pay for the toy originally?
(a) Rs. 2400
(b) Rs. 2560
(c) Rs. 2760
(d) Rs. 2800

Q41. Which of the following is NOT a Greenhouse Gas?
(a) Nitrous Oxide
(b) Methane
(c) Sulphur Hexafluoride
(d) Copper Dioxide

Q42. On which festival did the Jallianwala Bagh Massacre take place?
(a) Baisakhi
(b) Guru Nanak Jayanti
(c) Diwali
(d) Holi

Q43. The 2016 World Economic Forum Annual Meeting took place in–
(a) Germany
(b) Switzerland
(c) France
(d) United Kingdom

Q44. Which of the following is NOT a computer virus?
(a) AIDS
(b) Anna Kournikova
(c) Brain
(d) Don

Q45. In the Republic of India, the administrative head of a Union Territory is–
(a) Lieutenant Governor
(b) Governor
(c) President
(d) Prime Minister

Q46. The Jayakwadi Project, which is one of the largest irrigation projects is on the river–
(a) Godavari
(b) Narmada
(c) Krishna
(d) Tapi

Q47. Which of the following is the largest glacier in India?
(a) Gangotri Glacier
(b) Drang Drung Glacier
(c) Siachen Glacier
(d) Shafat Glacier

Q48. Which was the first women's sport to be introduced in the Olympics?
(a) Gymnastics
(b) Volleyball
(c) Golf
(d) Badminton

Q49. A wire when bent in the form of a square encloses an area of 484 sq. cm. If the same wire is bent in the form of a circle, what is the area enclosed by it?
(a) 264 sq. cm
(b) 616 sq. cm
(c) 488 sq. cm
(d) 492 sq. cm

Q50. What will Rs. 40,000 amount to in 2 years at the rate of 20% p.a., if interest is compounded yearly?
(a) Rs. 48,620
(b) Rs. 58,564
(c) Rs. 57,600
(d) Rs. 60,000

Q51. How long will a sum of money take to double, if it is invested at 9.09% p.a. simple interest?
(a) 12 years
(b) 14 years
(c) 11 years
(d) 13 years

Q52. From 1337 to 1453, who were the main combatants in the Hundred Year's War?
(a) Kingdom of Germany and Kingdom of France
(b) Kingdom of Germany and Kingdom of Italy
(c) Kingdom of France and Kingdom of Spain
(d) Kingdom of England and Kingdom of France

Q53. A train crosses a stationary object in 10 seconds. What is the length of the train if the speed of the train is 25 m/s?
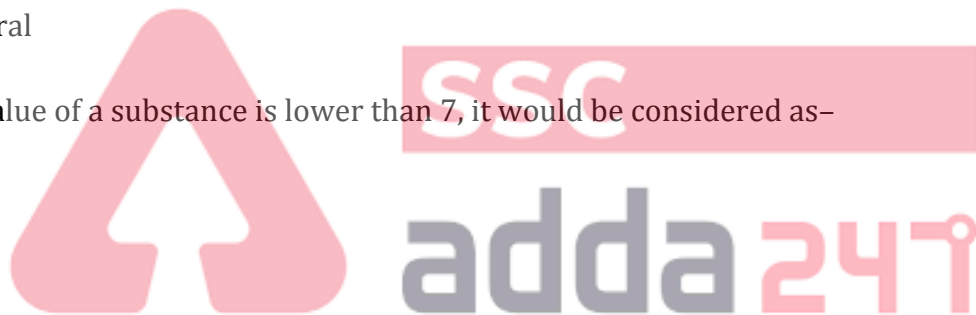(a) 300 m
(b) 250 m
(c) 320 m
(d) 200 m

Q54. Google, in partnership with the Railway's telecom wring RailTel, introduced the first public Wi-Fi service at the _____ railway station.
(a) Trivandrum Central
(b) Mumbai Central
(c) Howrah Station
(d) Kanpur Central

Q55. If the pH value of a substance is lower than 7, it would be considered as–
(a) Neutral
(b) Base
(c) Acid
(d) Ion

Q56. In 2013, the first human liver was grown from stem cells in–
(a) Japan
(b) USA
(c) Germany
(d) France

Q57. Two poles of the height 12 m and 17 m stand vertically upright on a plane ground. If the distance between their feet is 12 m, find the distance between their tops.
(a) 11 m
(b) 12 m
(c) 13 m
(d) 14 m

Q58. In which state is the World Heritage Site 'Basilica of Bom Jesus' located?
(a) Goa
(b) Andhra Pradesh
(c) Tamil Nadu
(d) Kerala

Q59. If PLUTO = QKVSP, then SATURN=
(a) TZUTSM
(b) TATUTM
(c) TZUTRO
(d) RZUTSO

Q60. If P713 is divisible by 11, find the value of the smallest natural number P?
(a) 5
(b) 6
(c) 7
(d) 9

Q61. If '+' means ×, '−' means ÷ , '×' means + and '÷ ' means – ; compute the value of the expression:
15 + 9 × 10÷ 5
(a) 140
(b) 190
(c) 145
(d) 130

Q62. Which of the following is NOT a rich source of Calcium?
(a) Cheese
(b) Collard Greens
(c) Figs
(d) Carrots

Q63. Pointing at a photograph, Ramesh said, "He is Rahul, my brother's son's only paternal uncle's wife's brother". How is Rahul related to Ramesh?
(a) Brother-in-law
(b) Brother
(c) Cousin
(d) Son

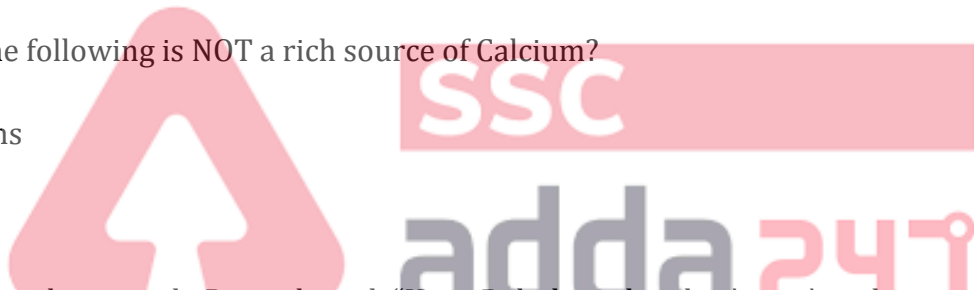**Q64.** Who was the first Indian to become a Nobel Laureate?
(a) Rabindranath Tagore
(b) Mahatma Gandhi
(c) C. V. Raman
(d) Mother Teresa

Q65. Choose the pair which is related in the same way as the words in the first pair from the given choices.
OPTHALMOLOGIST : EYE :: NEPHROLOGIST : _____
(a) NERVOUS SYSTEM
(b) LIVER
(c) KIDNEY
(d) STOMACH

Q66. Indian born Shiva Ayyadurai is associated with the invention of–
(a) Email
(b) Internet
(c) Keyboard
(d) Mouse

Q67. Below are given statements followed by some conclusions. You have to take the given statements to be true even if they seem to be at variance with the commonly known facts and then decide which of the given conclusions logically follow(s) from the given statements.
Statements:
A. All boys are monkeys.
B. Some plants are monkeys.
Conclusions:
I. Some monkeys are boys.
II. All plants are boys.
Decide which of the below conclusions logically follows from the given statements.
(a) Only conclusion I follows
(b) Only conclusion II follows
(c) Both I and II follow
(d) Neither of them follows

Q68. The average of 11 results is 50. The average of the first 6 results is 49 and that of the last 6 results is 52. What is the 6th result?
(a) 48
(b) 51
(c) 56
(d) 49

Q69. 5.36 × 3.6 =
(a) 19.296
(b) 18.946
(c) 21.996
(d) 20.26

Q70. Compute: (18 + 2 × 3.3) ÷ 0.003
(a) 11200
(b) 5100
(c) 8200
(d) 1610

Q71. A ladder 10 m long is leaning against a vertical wall. It makes an angle of 60° with the ground. How far is the foot of the ladder from the wall?
(a) 5 m
(b) 8.66 m
(c) 17.32 m
(d) 15 m

Q72. Given below is a statement followed by some conclusions. You have to take the given statement to be true even if it seems to be at variance with the commonly known facts and then decide which of the given conclusions logically follow(s) from the given statement.

Statement:

Sachin Tendulkar was the greatest batsman in Indian Cricket.

Conclusions:

I. There will be no other batsman greater than Sachin Tendulkar in Indian Cricket.

II. Sachin Tendulkar is the greatest batsman in the world.

Choose the right option from below

(a) Only conclusion I follows

(b) Only conclusion II follows

(c) Both I and II follow

(d) Neither of them follows

Q73. In January 2016, the Union Cabinet approved the proposal of the Ministry of Power for amendments in the Tariff Policy with the focus on 4 Es. Which of the following is NOT a part of the 4 Es?

(a) Electricity for all

(b) Environment for sustainable future

(c) Ease of doing business to attract investments

(d) Ensuring affordable electrical goods to all

Q74. Choose the pair which is related in the same way as the words in the first pair from the given choices.

CRICKET : PITCH :: SKATING: _____

(a) RINK

(b) GROUND

(c) COURT

(d) RING

Q75. Below are two statements. You have to take the given statements to be true even if they seem to be at variance with the commonly known facts.
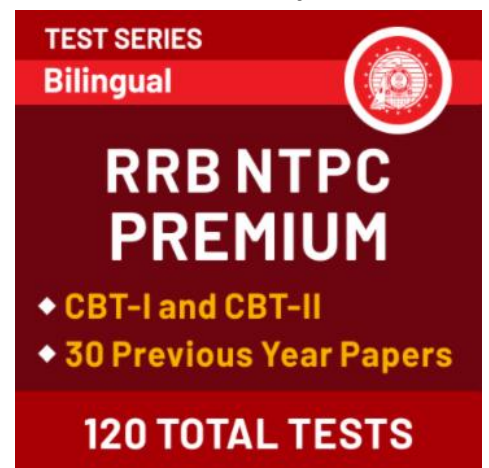
Statements:

I. Some trees are buildings.

II. All buildings are parrots.

Decide which of the below conclusions logically follows from the given statements.

(a) All parrots are trees

(b) All parrots are buildings

(c) Some parrots are buildings

(d) No parrot is a tree

Q76. Re-location of endangered or rare species from their natural habitat to protected areas equipped for their protection and preservation is called–
(a) Ex situ conservation
(b) In situ conservation
(c) Exile conservation
(d) Escaped conservation

Q77. From which country is the 'Fundamental Duties' of the Indian Constitution borrowed?
(a) UK
(b) USA
(c) USSR
(d) Australia

Q78. In India, the highest cricket ground above sea level lies in which state?
(a) Himachal Pradesh
(b) Sikkim
(c) Uttar Pradesh
(d) Assam

Directions (79-81): Study the following table and answer the questions based on it.

Given below is the list of expenditures (in lakh rupees) per annum of Company Z over the years.

Year	Expenditure Items for Company Z				
	Salary	Fuel and Transport	Bonus	Interest on Loans	Taxes
2011	412	227	15	133.4	98
2012	557	233	16.5	142.5	138
2013	656	245	17.3	151.6	174
2014	680	260	17.9	166.4	188
2015	720	284	18.5	179.4	198

Q79. What is the average amount of Bonus per year?
(a) Rs. 17.04 Lakhs
(b) Rs. 17 Lakhs
(c) Rs. 17.4 Lakhs
(d) Rs. 16.8 Lakhs

Q80. What is the total expenditure of Company Z in the year 2011?
(a) Rs. 897.2 Lakhs
(b) Rs. 827.5 Lakhs
(c) Rs. 885.4 Lakhs
(d) Rs. 727.1 Lakhs

Q81. What is the expenditure on Fuel and Transport as a percentage of expenditure on Salary for the year 2012?
(a) 41.8%
(b) 40.1%
(c) 43.1%
(d) 44.2%

Q82. The cost of 2 pencil, 4 pens and 8 erasers is Rs. 12 and the cost of 8 pens, 10 pencils and 4 erasers is Rs. 36. How much will 3 pencils, 3 pens and 3 erasers cost?
(a) Rs. 10
(b) Rs. 15
(c) Rs. 12
(d) Rs. 18

Q83. If BEAR = YVZI, then BUILDING =
(a) ATHKCHMF
(b) YFROWRMT
(c) YFSWOSMR
(d) ATHKCHMT

Q84. What is Geotropism?
(a) Growth of plants in response to Gravity
(b) Growth of plants in response to Sunlight
(c) Growth of plants in response to Nutrients
(d) Growth of plants in response to Water

Q85. If the cost price of 120 articles is equal to the selling price of 80 articles, find the profit percent.
(a) 33.33%
(b) 40%
(c) 50%
(d) 60%

Q86. In 2016, ISRO conducted 1st satellite–based warning system trial for Indian Railways in–
(a) Mumbai
(b) Ahmedabad
(c) Kolkata
(d) Delhi

Q87. In 1831, electricity became viable for use in technology when _____ created the electric dynamo.
(a) Benjamin Franklin
(b) Alessandro Volta
(c) Michael Faraday
(d) Thomas Edison

Q88. If RAILWAY is coded as 24-7-15-18-29-7-31 then how will you code STATION?

(a) 25-24-7-24-15-21-19

(b) 25-26-7-26-15-21-20

(c) 25-24-8-24-15-21-19

(d) 25-26-8-26-15-21-20

Q89. Select the correct set of symbols:

64 4 5 8 = 88

(a) x, −, ÷

(b) + , ÷ , −

(c) + , − , ÷

(d) ÷ , ×, +

Direction (90-92): Study the diagram given below and answer the questions based on it.

△ represents Students who have chosen Arts course

○ represents Students who have chosen Science course

□ represents Students who have chosen Dance course
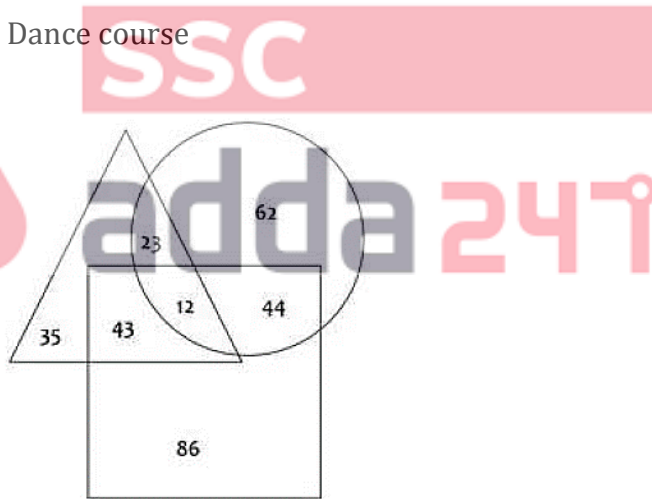
Q90. How many students have chosen the Science course?

(a) 141

(b) 185

(c) 113

(d) 145

Q91. How many students have chosen Dance course and Science course but not the Arts course?

(a) 43

(b) 44

(c) 12

(d) 23

Q92. How many students have chosen Arts course and Science course but not the Dance course?
(a) 23
(b) 12
(c) 35
(d) 44

Q93. When an object thrown straight upwards gets to the top of its path, its
(a) Velocity is zero and it acceleration is zero
(b) Velocity is zero and its acceleration is about 10 m/s^2
(c) Velocity is 10 m/s and its acceleration is zero
(d) Velocity is 10 m/s and its acceleration is about 10 m/s^2

Q94. Select the correct set of symbols:
21 9 13 7 = 195
(a) x, −, ÷
(b) + , ÷ , −
(c) + , −, ÷
(d) ×, +, −

Q95. Which of the following gases in air is responsible for the discoloration of Brasss?
(a) Hydrogen Sulphide
(b) Carbon Dioxide
(c) Nitrogen
(d) Carbon Monoxide

Q96. Choose the one which is different or odd from the following.
(a) Dal Lake
(b) Sambhar Lake
(c) Vembanad Lake
(d) Wular Lake

Q97. What is the mode of the following list of numbers:
2, 4, 5, 6, 5, 4, 3, 5, 3, 1, and 7?
(a) 3
(b) 4
(c) 5
(d) 2

Q98. India's national motto, Satyameva Jayate (lit. "Truth alone triumphs"), is a mantra from the ancient Indian scripture–
(a) Rigveda
(b) Mundaka Upanishad
(c) Bhagavad Gita
(d) Matsya Purana

Q99. P bought an article for Rs. 400 and sold it at a profit of 10%. What would have been the increase in the profit percent if it was sold for Rs. 460?
(a) 5%
(b) 10%
(c) 12%
(d) 15%

Q100. In 2016, ISRO successfully launched its fifth navigation satellite called–
(a) IRNSS 1D
(b) IRNSS 1E
(c) VELOX-C1
(d) TeLEOS-1