Aglasem Career

RRBs NTPC Set - 1

Duration - 1:30 Hrs

Exam RRBs NTPC		Total Questions 100		
Marks For Correct Answer 1	Negative Marking 0.33	Mathematics 30	General Intelligence And Reasoning 30	General Awareness 40

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Mathematics

1. The rational number between and ½ and ⅗ is
(1) 2/5
(2) 4/7
(3) 2/5
(4) 1/3

2. What is the sum of the first 12 terms of an arithmetic progression, if the first term is -19 and the last term is 36?
(1) 192
(2) 230
(3) 102
(4) 214

3. If $\left(67^{67}+67\right)$ is divided by 68. Then,the remainder is
(1) 1
(2) 67
(3) 63
(4) 66

4. The sum of two numbers is 528 and their HCF is 33. How many pairs of such numbers can be?
(1) 1
(2) 2
(3) 3
(4) 4

5. Out of four numbers, the average of the first three is 18 and that of the last three is 16. If the last

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number is 19, then the first number is
(1) 19
(2) 18
(3) 20
(4) 25

6. Kishan spends 30% of his salary on food and donates 3% in a Charitable Trust. He spends ₽ 2310 on these two items, then total salary for that month is
(1) ₽ 6000
(2) ₽ 8000
(3) ₽ 9000
(4) ₽ 7000

7. The third proportional of the numbers $(x-y)^2$, $\left(x^2-y^2\right)^2$
(1) $(x+y)^3(x-y)^2$
(2) $(x+y)^4(x-y)^2$
(3) $(x+y)^2(x-y)^2$
(4) $(x+y)^2(x-y)^3$

8. The ratio, in which tea costing ₽ 192 per kg is to be mixed with tea costing 150 per kg so that the mixed tea, when sold for 194.40 kg gives a profit of 20% is
(1) 2:5
(2) 3:5
(3) 5:3
(4) 5:2

9. If the cost price is 95% of the selling price, then what is the profit per cent?
(1) 4
(2) 4.75
(3) 5
(4) 5.26

10. The sum of money that will yield 60 as simple interest at 6% per annum in 5 yr is
(1) ₽ 200
(2) ₽ 225
(3) ₽ 175
(4) ₽ 300

11. The rate of simple interest per annum at which a sum of money double itself in $16\frac{2}{3} yr$ is
(1) 4%
(2) 5%
(3) 6%
(4) $6\frac{2}{3}\%$

12. A can do a work in 36 days and B in 12 days. If they work on it together, then in how many days will they be able to do the work?

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(1) 8 days
(2) 6 days
(3) 10 days
(4) 9 days

13. If 10 masons working 7h daily can build 28 water tanks in 16 days, then how many days will 12 masons working 6 h daily take to build 36 water tanks?
(1) 20
(2) 21
(3) 22
(4) 19

14. At an average speed of 80 km/h, Shatabdi Express reaches Ranchi from Kolkata in 7 h. Then, the distance between Kolkata and Ranchi is
(1) 560 km
(2) 506 km
(3) 562 km
(4) 650 km

15. If a-b=2 and ab = 15, then what is the value of $a^3 - b^3q$?.
(1) 152
(2) 112
(3) 108
(4) 98

16. A man standing on a platform finds that a train takes 3 s to pass him and another train of the same length moving in the opposite direction takes 4 s. The time taken by the trains to pass each other will be
(1) $2\frac{3}{7}s$
(2) $3\frac{3}{7}s$
(3) $4\frac{3}{7}s$
(4) $5\frac{3}{7}s$

17. 1f $2x - \frac{1}{2x} = 5, x \neq 0$, then the value of $x^2 + \frac{1}{16x^2} - 2$ is
(1) 19/4
(2) 23/4
(3) 27/4
(4) 31/4

18. If $0^\circ < \theta < 90^\circ$ and $2\sin^2\theta + 3\cos\theta = 3$, then the value of θ is
(1) 30°
(2) $11\frac{1}{9}\%$
(3) 11%
(4) 9%

19. The base of a triangle is increased by 10%. To keep the area unchanged the height of the

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triangle is to be decreased by
(1) $9\frac{1}{11}\%$
(2) $11\frac{1}{9}\%$
(3) 11%
(4) 9%

20. A sphere and a hemisphere have the same volume. The ratio of their curved surface areas is
(1) $2^{-\frac{3}{2}} : 1$
(2) $2^{\frac{2}{3}} : 1$
(3) $4^{-\frac{2}{3}} : 1$
(4) $2^{\frac{1}{3}} : 1$

21. What day of the week was it on 5th November, 1987, if it was Monday on 4th April, 1988?
(1) Monday
(2) Friday
(3) Thursday
(4) Sunday

22. What is the value of $\sqrt[3]{4\frac{12}{125}}$?
(1) $1\frac{3}{5}$
(2) $1\frac{2}{5}$
(3) $1\frac{4}{5}$
(4) $2\frac{2}{5}$

23. A trader has 50 kg of pulses, part of which he sells at 8% profit and rest at 18% profit. He gains 14% on the whole. What is the quantity sold at 18% profit?
(1) 30 kg
(2) 35 kg
(3) 40 kg
(4) 60 kg

24. The number of five digits number that can be formed without any restriction, is
(1) 990000
(2) 100000
(3) 90000
(4) None of these

25. A tower stands vertically on the ground. From a point on the ground which is 30 m away from the foot of a tower, the angle of elevation of the top of the tower is found to be 45°. Find the height of the tower.
(1) 20 m
(2) 30 m
(3) 10 m
(4) 11 m

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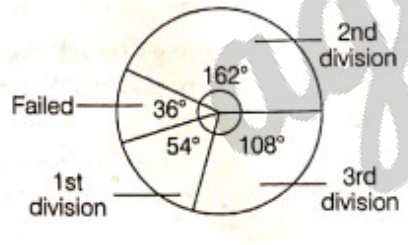
26. From a point A on a bridge across a river, the angles of depression of the banks on opposite sides of the river are 30° and 45°, respectively. If the bridge is at a height of 9 m from the surface of river, then find the width of the river.
(1) 24.588 m
(2) 26.456 m
(3) 29.853 m
(4) 23.576 m

27. In an arithmetic progression, if 17 is the 3rd term, -25 is the 17th term, then - 1 is which term?
(1) 10
(2) 11
(3) 9
(4) 12

28. What is the sum of the following series? -64,-66, -68,...,-100
(1) - 1458
(2) -1558
(3) -1568
(4) -1664

29. If α and β are the roots of the equation $ax^2 + bx + c = 0$ then the roots of the equation.
(1) $-\alpha, -\beta$
(2) $\frac{1}{\alpha}, \frac{1}{\beta}$
(3) $\frac{1}{\alpha}, \alpha$
(4) $\frac{1}{\beta}, \alpha$

30. The following pie chart shows the performance in an examination in a particular year for 360 students. Study the pie chart and answer the questions given below.



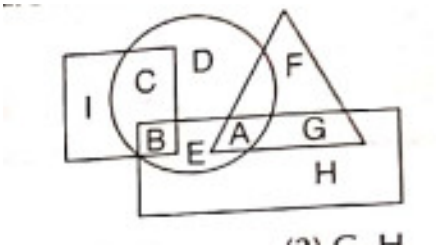
The number of students who passed in 2nd division is more than those Ist division by
(1) 111
(2) 12
(3) 109
(4) 108

General Intelligence And Reasoning

31. In the following figure, square represents Painters, triangle represents Women, circle represents Accountants and rectangle represents Americans. Which set of letters represents

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Americans who are not Accountants?



(1) D, C, H
(2) G, H
(3) G, B, E
(4) D, A

32. Which one set of letters when sequentially placed at the gaps in the given letter series shall complete
a_b_ca_b_c_a_CC
(1) ababac
(2) acacab
(3) acbcab
(4) ababca

33. P, Q, R, S, T, U are 6 members of a family in which there are two married couples, T, a teacher is married to a doctor who is mother of R and U. Q, the lawyer is married to P. P has one son and one grandson. Of the two married ladies one is a housewife. There is also one student and one male engineer in the family. Which of the following is true about the granddaughter of the family?
(1) She is a lawyer
(2) She is an engineer
(3) She is a student
(4) She is a doctor

34. What should come in the place of question mark (?) in the following alpha-numeric series?
T49564, R81Q100, P1210144,?
(1) N169M196
(2) N160M196
(3) N164M194
(4) U36T46

35. Select the missing term from the given responses.

5	6	7	8
10	18	21	40
7	9	10	?

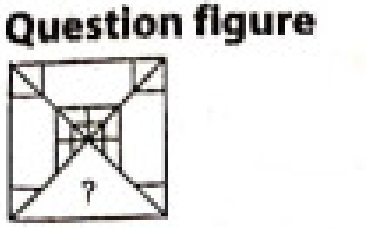
(1) 20
(2) 11
(3) 13
(4) 15

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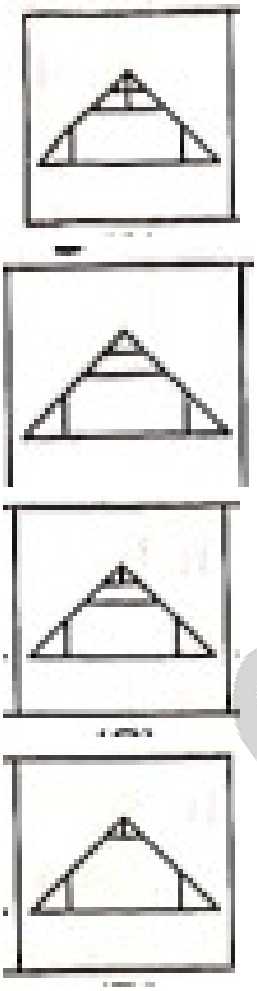
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36. What will be angle between the two hands of a clock at 9:50?
(1) 5°
(2) 7°
(3) 8°
(4) 10°

37. Select the option will fit in the blank space in the given figure.
Question figure



Answer figure



(1) A
(2) C
(3) B
(4) D

38. Two cars Cand start from the same point. C travels 9 km South, then turns to its left and travels another 11 km. D travels 3 km East, then turns South and travels 5 km, then turns to its left and travels another 8 km. Where is D with respect to C now?
(1) 4 km South
(2) 14 km North

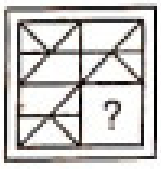
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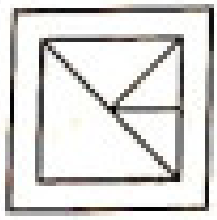
(3) 4 km North
(4) 14 km South

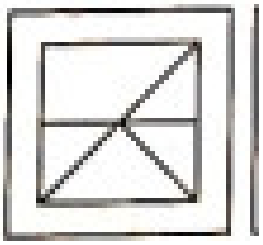
39. Which answer figure will complete the pattern in the question figure? Question figure

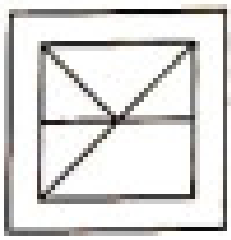
Question figure

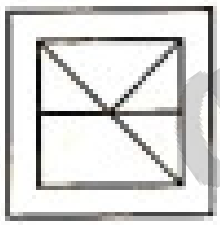


Answer figures

(1) 

(2) 

(3) 

(4) 

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40. In the following questions, find the odd number/letter/number pair from the given alternatives.

(1) Marigold
(2) Tulip
(3) Lotus
(4) Rose

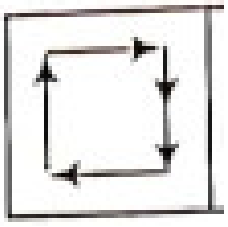
41. In the following questions, find the odd number/letter/number pair from the given alternatives.
(1) 8110
(2) 9100
(3) 1189
(4) 1234

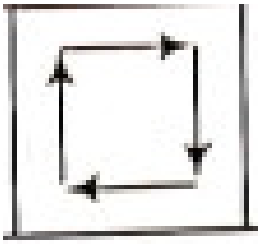
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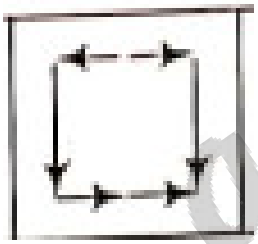
42. Select the related word/letters/number from the alternatives given below.
$\sqrt{\text{AFI}} = \text{M} : \sqrt{\text{ADD}} = \text{L}\because : \text{ABA} = ?$
(1) N
(2) K
(3) 1
(4) O

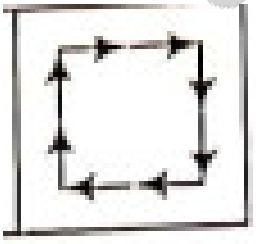
43. Select the related word/letters/number from the alternatives given below.
Heart: Cardiologist :: Kidney:?
(1) Endocrinologist
(2) Orthodontist
(3) Nephrologist
(4) Neurologist

44. Choose the figure which is different from others.

(1) 

(2) 

(3) 

(4) 

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45. In a certain code language 481 means 'sky is blue, 246 means 'sea is deep' and 698 means sea looks blue! What number is the code for 'blue'?
(1) 9
(2) 1
(3) 8
(4) 6

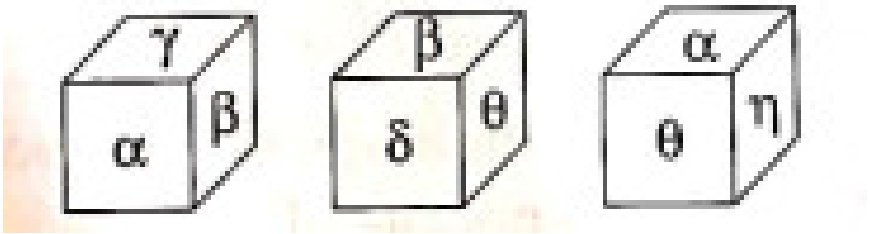
46. Arrange these letters of each group to make a meaningful word and then find the odd one out.

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(1) VIDEID
(2) GHIET
(3) ORFU
(4) VEENS

47. 37 boys are standing in a row facing the school building. Ashwini is 15th from the left end. If he is shifted six places to the right, what is his position from the right end?
(1) 16 th
(2) 17th
(3) 21st
(4) 20th

48. Three positions of a cube are shown below. What will come opposite to face containing 'α?'?



(1) β
(2) δ
(3) η
(4) θ

49. If "A" denotes subtracted from, "B" denotes "added to "'C' denotes "divided by" "D" denotes "multiplied by", then which of the following statement is correct?
(1) 3 A 12 B 16 D 17 C1 =163
(2) 5 C 7 A 9 D 8 B 2 = 294
(3) 13 C 13 A 13 B 13 D 13 =157
(4) 18 C 16 D 49 A 27 B 9 = 200

50. D is K's brother, M is K's sister. T is R's father who is M's brother. F is K's mother. At least how many sons do T and F have
(1) 2
(2) 3
(3) 4
(4) Data inadequate

51. Consider the given statement/s to be true and decide which of the given conclusions/can definitely be drawn from the given statement.
Statement
Ahinsa should be basic principle of human beings. All of us should practice Ahinsa.
Conclusions
I. We all know the real meaning of Ahinsa.
II. Ahinsa promotes global harmony.
(1) Only Conclusion I follows
(2) Only Conclusion II follows

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(3) Neither Conclusion I nor Conclusion Il follows
(4) Both Conclusions I and II follow

52. Five boys are standing in a row facing East. Pavan is to the left of Tavan, Vipin, Chavan. Tavan, Vipin and Chavan are to the left of Nakul. Chavan is between Tavan and Vipin. If Vipin is 4th from the left. Then how far is Tavan from the right?
(1) First
(2) Second
(3) Third
(4) Fourth Directions

53. Questions in the form of inferences/conclusions are based on the passages given below. You are required to examine each inference separately in the context of the passage and decide upon its degree of truth or falsity.
It is assumed that the minimum nutritional requirement per person per day in rural areas is 2400 calories whereas it is 2200 calories in urban areas. If the household is unable to bear the expenditure for this level of nutrition, it is categorised as below the poverty line. There is also a view that along with calories, the amount of protein intake be treated as a criterion as it is related to physical energy, mental alertness and resistance to infection.
Many Indians, who below the poverty line, get necessary amount
of proteins,
Give Answer
(1) if the inference is definitely true, i.e. It properly follows from the
statement of facts given
(2) if the inference is probably true though not definitely true in the light
of the facts given
(3) if the data are inadequate i.e. from the facts given you cannot say whether the inference is likely to be true or false
(4) if the inference is definitely false, i.e. it can not possibly be drawn from the facts given or it contradicts the given facts

54. Questions in the form of inferences/conclusions are based on the passages given below. You are required to examine each inference separately in the context of the passage and decide upon its degree of truth or falsity.
People living above the poverty line are less likely to suffer from
infections.
Give Answer
(1) if the inference is definitely true, i.e. It properly follows from the
statement of facts given
(2) if the inference is probably true though not definitely true in the light
of the facts given
(3) if the data are inadequate i.e. from the facts given you cannot say whether the inference is likely to be true or false
(4) if the inference is definitely false, i.e. it can not possibly be drawn from the facts given or it contradicts the given facts

55. The question given below consists of a question followed by two statements labelled as and II.

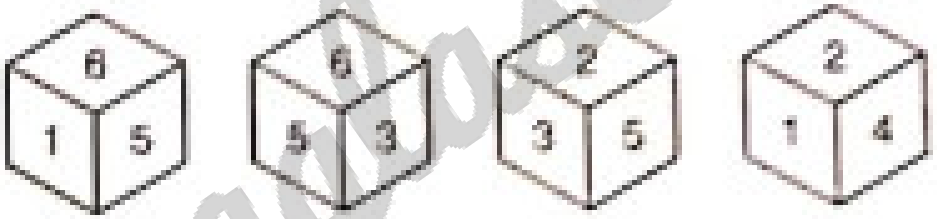
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We have to decide whether these statements give enough information required to answer the question or not.
How will 'must be written in a certain code?
I. In that code language, you must see' is written as 'la pa ni' and did you see is written as 'jo ni pa!
II. In that code language 'you did that ' is written as pa si jo
Give Answer
(1) If Statement I alone is sufficient to answer the question
(2) If Statement Il alone is sufficient to answer the question
(3) If Statements I and Il together are needed to answer the question
(4) If Statements I and Il together are not sufficient to answer the question

56. What will be next number in the series? 0, 1,4, 27, 16, 125, 36, ?
(1) 343
(2) 25
(3) 144
(4) 72

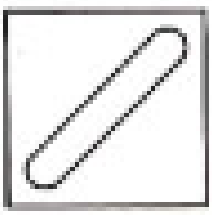
57. If + means /, / means -,- means x, x means +, then 10+5/7-4x 30=?
(1) 8
(2) 4
(3) 10
(4) 6

58. Four positions of a dice are given below.Find the number on the face opposite to the face showing 4.



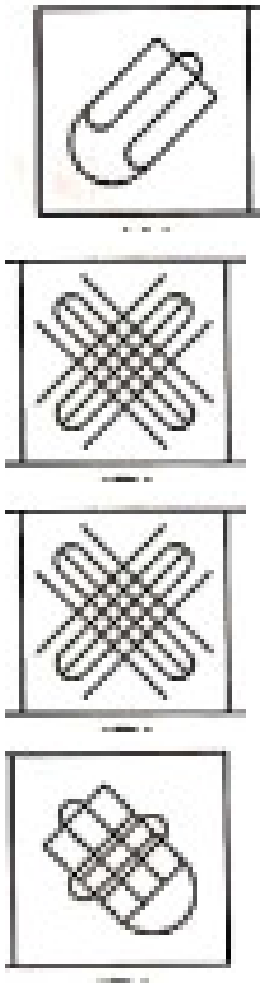
(1) 5
(2) 1
(3) 6
(4) 3

59. The below figure is embedded in one of the answer figure. Choose the correct figure containing the below figure.



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(1) A
(2) B
(3) C
(4) D

60. If in a certain code, GREEN is written as ITGGP, then how will PINK be written as in the same code?

(1) RKPM
(2) TUMJ
(3) KLON
(4) RKQS

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General Awareness

61. The Jammu and Kashmir state Legislative Assembly has a tenure of
(1) 6 years
(2) 5 years
(3) 4 years
(4) 7 years

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62. The longest river of Europe is
(1) Rhine
(2) Nile
(3) Danube
(4) Volga

63. How many players are there in a water polo team?
(1) 6
(2) 5
(3) 7
(4) 8

64. Norman Ernest Borlaug regarded as the Father of the Green revolution is from
(1) Australia
(2) New Zealand
(3) USA
(4) Mexico

65. Which is the highest peak of Western Ghats?
(1) Annamalai
(2) Anamudi
(3) Salpuri
(4) Dodabetta

66. India's first banking robot, 'Lakshmi' was launched by which of the following banks?
(1) City Bank
(2) Union Bank
(3) Oriental Bank of Commerce
(4) City Union Bank

67. What is the height of Statue of Unity?
(1) 190 m
(2) 153 m
(3) 182 m
(4) 133 m

68. Green Climate Fund was proposed in which of the following environment conferences?
(1) 2009 United Nations Climate Change Conference
(2) 2010 United Nations Climate Change Conference
(3) 2010 G-20 Summit
(4) None of the above

69. A computer executes program in the sequence of
(1) Execute, Fetch, Decode
(2) Store, Fetch, Execute
(3) Fetch, Decode, Execute
(4) Decode, Fetch, Execute

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70. World's first drainage system was built by the people of
(1) Egyptian civilisation
(2) Indus Valley civilisation
(3) Chinese civilisation
(4) Mesopotamian civilisation

71. Who elects the members of Rajya Sabha?
(1) Elected members of the State Legislative Council
(2) The people
(3) Elected members of the State Legislative Assembly
(4) Lok Sabha

72. Chilika lake is located in
(1) Odisha
(2) Bihar
(3) Rajasthan
(4) Maharashtra

73. Capital market deals with
(1) short term fund
(2) long term fund
(3) Cash
(4) Both 'a' and 'b'

74. Which Indian athlete won Gold in Men's short put event at the 2018 Jakarta Asian games?
(1) Tejinderpal Singh Toor
(2) Mohammad Anas Yahiya
(3) Dharun Ayyasamy
(4) Neeraj Chopra

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75. An AIDS patient on diagnosis by a doctor is found suffering from TB and malaria because
(1) the person became very weak
(2) the immune system is damaged
(3) AIDS includes all other infectious diseases
(4) None of the above

76. A lichen is formed through the mutual combination of two species or the plants which are
(1) fungi and fern
(2) algae and bryophytes
(3) bacteria and virus
(4) fungi and algae

77. The value of gravitational acceleration (g) is
(1) highest at poles
(2) highest at equator
(3) lowest at poles

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(4) None of the above

78. Which wave property determines the loudness of sound?
(A) Frequency
(B) Pitch
(C) Speed
(D) Amplitude
(1) B
(2) A
(3) D
(4) C

79. 'National Unity Day' is observed on the birth anniversary of
(1) Sardar Vallabhbhai Patel
(2) Mahatma Gandhi
(3) Gopal Krishna Gokhale
(4) Lokmanya Tilak

80. If a ball thrown up in a moving car comes back to the boy's hands, then it explains
(1) Newton's first law of motion
(2) Newton's second law of motion
(3) Newton's third law of motion
(4) Law of conservation of momentum

81. Which of the following is true?
(1) 1 gigabyte =1024 MB
(2) 1 gigabyte =1000000 kilobyte
(3) 1 gigabyte =10000 MB
(4) 1 gigabyte =100000 KB

82. Curd is sour due to presence of
(1) tartaric acid
(2) lactic acid
(3) acetic acid
(4) oxalic acid

83. India's first specialised hospital for elephants has opened in which of the following cities?
(1) Bangaluru
(2) Varanasi
(3) Kochi
(4) Mathura

84. The Arjuna Award given by the Government of India is for public achievement in which of the following fields?
(1) Sports
(2) Poverty Eradication
(3) Literature

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(4) Economics

85. How many Indians astronauts will be sent to space under Gaganyaan Mission?
(1) One
(2) Three
(3) Five
(4) Ten

86. Where is India's first Dolphin Research centre located?
(1) Uttar Pradesh
(2) Maharashtra
(3) Bihar
(4) Karnataka

87. Vasco-Da-Gama became the first European to set foot in India via the sea in
(1) 1489
(2) 1498
(3) 1499
(4) 1488

88. Odisha often faces natural disasters due to..
(1) earthquakes
(2) cyclones
(3) rainfall
(4) drizzle

89. Which Indian state is the largest of Soyabean?
(1) Madhya Pradesh
(2) Himachal Pradesh
(3) Arunachal Pradesh
(4) Andhra Pradesh

90. Ozone depletion is occurring widely in
(1) ionosphere
(2) stratosphere
(3) Both (1) and (2)
(4) troposphere

91. In which State is Karla, famous for its Buddhist caves, located?
(1) Maharashtra
(2) Uttar Pradesh
(3) Uttarakhand
(4) Madhya Pradesh

92. What was India's rank in recently released (2019) World Bank's Ease of Doing Business ranking?
(1) 76
(2) 77

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(3) 99
(4) 100

93. Which article of Indian constitution gives President the power of grant pardon?
(1) Article-72
(2) Article-53
(3) Article-280
(4) Article-123

94. Who wrote 'The Accidental Prime minister '?
(1) Dr Manmohan
(2) Soniya Gandhi
(3) Sanjay Baru
(4) None of these

95. Woolen clothes keep us warm in winter because
(1) they give heat to body
(2) they protect the heat of body from escaping
(3) they protect the cold from entering the body
(4) None of the above

96. Sodium chloride has a
(1) covalent bond
(2) electrovalent bond
(3) coordinate covalent bond
(4) None of the above

97. In which among the following countries is the world's longest sea bridge recently inaugurated?
(1) USA
(2) China
(3) Japan
(4) India

98. What is the study of Moon called?
(1) Selenology
(2) Cosmology
(3) Iridology
(4) Planetology

99. Quantity of light entering the eyes is controlled by
(A) retina
(B) eye-lids
(C) iris
(D) eye-lens
(1) B
(2) C
(3) D

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(4) A

100. 'Satyashodhak Samaj' was founded by whom?
(1) Mahatma Gandhi
(2) Jyotirao Phule
(3) Dr BR Ambedkar TV
(4) Swami Vivekananda

Answer Key

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

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