Aglasem Career

RRBs NTPC Set - 3

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

Mathematics

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1. What least number must be subtracted from 518, so that the sum is completely divisible by 13?
(1) 11
(2) 10
(3) 9
(4) 12

2. A man plants 5184 oranges trees in his garden and arranges them, so that there are as many rows as there are orange trees in a row. How many rows are there in the garden?
(1) 70
(2) 72
(3) 75
(4) 81

3. HCF of 2/3, 4/5 and 6/7 is
(1) 48/105
(2) 2/165
(3) 16/105
(4) 24/105

4. Average marks of 40 students is 34. A number is entered as 62 instead of 26. So, now what is the new average after correction?
(1) 33.1
(2) 34.1
(3) 35.1
(4) 36.1

5. In one litre of mixture of alcohol and water, water is 30%. The amount of alcohol that must be added to the mixture, so that the part of water in the mixture becomes 15%, is
(A) 1000 mL
(B) 700 mL
(C) 300 ml
(D) 900 mL
(1) C
(2) A
(3) B
(4) D

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6. Average age of 6 sons of a family is 8 yr. Average age of son together with their parents is 22 yr. If the father is older than the mother by 8 yr, then the age of mother (in years) is
(1) 44
(2) 52
(3) 60
(4) 68

7. A certain sum, Invested at 4% per annum compound interest, compounded half-yearly, amounts to ₹ 7803 at the end of 1 yr. The sum is
(1) ₹ 7000
(2) ₹ 7200
(3) ₹ 7500
(4) ₹ 7700

8. The price of rice has increased by 60%. In order to restore the original price, the new price must be reduced by
(1) $33\frac{1}{3}\%$
(2) $37\frac{1}{2}\%$
(3) 40%
(4) 45%

9. The ratio $4^{35} : 2^5$ is the same as
(1) 4:1
(2) 2:1
(3) 1:2
(4) 1:4

10. An alloy contains zinc, copper and tin in the ratio 2:3:1 and another contains copper, tin and lead in the ratio 5:4:3. If equal weights of both alloys are melted together to form a third alloy, then the weight of lead per kg in the new alloy will be
(1) 1/2
(2) 1/8
(3) 3/14
(4) 7/9

11. 40 men can complete a work in 40 days. They started the work together. But at the end of each 10th day, 5 men left the job. The work would have been completed in
(1) $56\frac{2}{3}$ days
(2) $53\frac{1}{3}$ days
(3) 52 days
(4) 50 days

12. The simple interest and compound interest (compounded annually) on a certain sum of money with a given rate for a period of 2 yr are ₹ 900 and ₹ 954, respectively. The sum of money is
(1) ₹ 3700
(2) ₹ 3650
(3) ₹ 3850
(4) ₹ 3750

13. If A and B together do a job in 7.5 days and if A could do the job in 10 days if he worked alone. How many days would B take to do the job if he worked alone?
(1) 30 days
(2) 40 days
(3) 25 days
(4) 50 days

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14. A train is running at 36 km/h. If it crosses a pole in 25s, its length is
(1) 248 m
(2) 250 m
(3) 255 m
(4) 260 m

15. A 120 m long train takes 10 s to cross a man standing on platform. What is the speed of the train?
(1) 12 m/s
(2) 10 m/s
(3) 15 m/s
(4) 20 m/s

16. If $p = \frac{5}{18}$ then the value of $27p^3 - \frac{1}{216} - \frac{9}{2}p^2 + \frac{1}{4}p$ is
(1) $\frac{4}{27}$
(2) $\frac{5}{27}$
(3) $\frac{8}{27}$
(4) $\frac{10}{27}$

17. The angle of elevation of an aeroplane from a point on the ground is 45°. After flying for 15 s, the elevation changes to 30°. If the aeroplane is flying at a height of 2500 m, then the speed of the aeroplane in km/h is
(1) 600
(2) $600(\sqrt{3}+1)$
(3) $600\sqrt{3}$
(4) $600(\sqrt{3}-1)$

18. The sides of a quadrilateral are in the ratio 3:4:5:6 and its perimeter is 72 cm. The length of its greatest side (in cm) is
(1) 24
(2) 27
(3) 30
(4) 36

19. If $x^2 = y + z, y^2 = z + x$ and $z^2 = x + y$, then the value of
$\frac{1}{x+1} + \frac{1}{y+1} + \frac{1}{z+1}$
(1) -1
(2) 1
(3) 2
(4) 4

20. The sum of the present ages of Varun and Kapil is 42 yr. The ratio of their ages after 5 yr will be 15:11. What is the present age of Kapil?
(1) 17 yr
(2) 24 yr
(3) 25 yr
(4) 22 yr

21. What is the area $\left(\ln \mathrm{cm}^2\right)$ of a rectangle of perimeter 48 cm and breadth 10 cm?
(1) 140
(2) 480
(3) 240
(4) 440

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22. The ratio of present ages of two brothers is 1:2 and 5 yr back the ratio was 1:3. What will be the ratio of their ages after 5 yr?
(1) 1:4
(2) 2:3
(3) 3:5
(4) 5:6,

23. What will be the sum of 6 terms of the series 7+14+21+28+...?
(1) 150
(2) 147
(3) 152
(4) - 150

24. A large tanker can be filled by two pipes A and B in 60 min and 40 min, respectively. How many minutes will it take to fill the tanker from empty state if B is used for half the time and A and B fill it together for the other half?
(1) 15
(2) 20
(3) 27.5
(4) 30

25. The diameter of a wheel is 98 cm. The number of revolutions in which it will have to cover a distance of 1540 m is
(1) 500
(2) 600
(3) 700
(4) 800

26. If difference between exterior and interior angles of a polygon is 60°, then find the number of sides in the polygon.
(1) 4
(2) 5
(3) 6
(4) 7

27. The bisectors Bl and Cl of $\angle B$ and $\angle C$ of $\triangle ABC$ meet in /. What is $\angle BIC$?
(1) $90^\circ - \frac{A}{4}$
(2) $90^\circ + \frac{A}{4}$
(3) $90^\circ - \frac{A}{2}$
(4) $90^\circ + \frac{A}{2}$

28. If it is Saturday on January 1, 2000, then January 1, 2001 would have been
(A) Monday
(B) Tuesday
(C) Friday
(D) Saturday
(1) D
(2) B
(3) A
(4) C

29. If one root of the equation $\frac{x^2}{a} + \frac{x}{b} + \frac{1}{c} = 0$ is reciprocal of the other, then which one of the following is correct?
(1) a = b
(2) b = c
(3) ac = 1

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(4) a = c

30. Two positive numbers x and y are inversely proportional. If x increases by 10%, then y decreases by
(1) 100%
(2) 10%
(3) 10%
(4) 2%

General Intelligence And Reasoning

31. Select the related letters/ word/ number from the given alternatives:
Love : Hate :: Friend : ?
(1) Trustful
(2) Companion
(3) Adorer
(4) Enemy

32. Select the related letters/ word/ number from the given alternatives:
Poverty : Unemployment :: Anemia : ?
(1) Malnutrition
(2) Illiteracy
(3) Drought
(4) Death

33. In the following questions, a series is given with one term missing. Select the correct alternative from the given ones that will complete the series.
LOQ, SVX, ZCE, ?
(1) GIL
(2) GLJ
(3) GTL
(4) JLG

34. In the following questions, a series is given with one term missing. Select the correct alternative from the given ones that will complete the series.
5, 11, 23, 47,95, ?
(A) 190
(B) 191
(C) 161
(D) 169
(1) A
(2) C
(3) B
(4) D

35. P+Q means P is the daughter of Q.
P - Q means P is the wife of Q.
P X Q means P is the sister of Q.
P + Q means P is the father of Q and P=Q means P is the brother of Q. Read the above information and answer the question given below it. What does M-N+O mean?
(1) O is the brother of M
(2) M is the mother of O
(3) M is the aunt of O
(4) O is the father of M

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36. 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.
Give Answer
There is nothing to boast about urban services.
(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 probably false though not definitely false in the light of the facts given Urban services have not expanded fast enough to cope with urban expansion. Low investment allocations have tended to be underspent. Both public (e.g., Water and sewage) and private (e.g., Low income area housing) infrastructure quality has declined. The impact of the environment in which children live and the supporting services available to them when they fall ill, seems clear. The decline in average food availability and the rise in absolute poverty, point in the same unsatisfactory directions.

37. 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.
Give Answer
The public transport system is in the hand of private sector.
(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
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38. In the following question, select the number which can be placed at sign of question mark (?) from the given alternatives.

3	2	625
5	3	4096
4	2	?

(1) 216
(2) 1024
(3) 1296
(4) 2024

39. Karan remembers that his sister's birthday is not after 18th August. Karan's mother remembers that Karan's sister birthday is before 20th August but after 17 August. On which date of August, is Karan's sister birthday?
(1) 18
(2) 17
(3) 19
(4) 20

40. Two statements are given followed by two conclusions. You have to consider the statements to be true even if they seem to be at variance from commonly known facts. You have to decide which of the given

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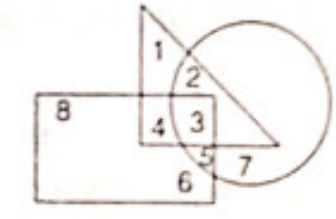
conclusion if any, follow from the given statements.
Statement
Some birds are clouds.
Horse is a bird.
Conclusions
I. Some clouds are birds
II. Horse is not a doud
(1) Only I follows
(2) Only Il follows
(3) Both I and Il follow
(4) Neither I nor Il follows

41. If '/' denotes 'Multiplied by:'+' denotes 'subtracted from '-' ,denotes 'added to 'and 'x' denotes 'divided by, then which of the following equation is true?
(A) 16 + 19 x 21- 5 = 201
(B) 5 x 6 + 4+ 3 = 37/6
(C) 6 x 3 + 12 + 3 = 21
(D) 18 x 6 : 8 - 12 = 36
(1) D
(2) C
(3) B
(4) A

42. In a certain code language, "PEN-TAN' is written as 'o. How is 'DEN-COB' written in that code language?
(1) 8
(2) 3
(3) 9
(4) 7

43. In the following question, from the given alternative words, select the word which cannot be formed using the letters of the given word. Superconductors
(1) Sports
(2) Spunt
(3) Stern
(4) Spectrum

44. In the following figure, triangle represents teachers, rectangle represents merchants and circle represents social workers. Which number space represent teachers who are social workers?



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

45. The question given below consist of a question followed by two statements labelled as I and II. You have to decide whether these statements give enough information required to answer the question or not.
How is P related to R?
I. Q is the son of R ?
II. Q is the brother of P.
Given Answer
(1) If Statement I alone is sufficient to answer the question

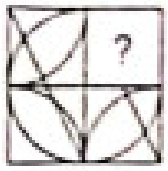
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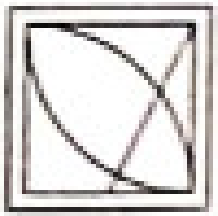
(2) If Statement Il alone is sufficient to answer the question
(3) If Statements I and Il together are needed to answer the question
(4) If Statements I and Il together are not sufficient to answer the question

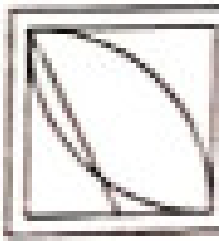
46. Which answer figure will complete the pattern in the question figure? Question figure

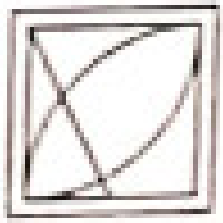
Question figure

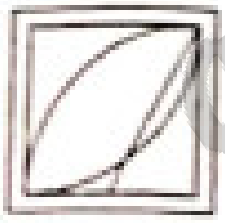


Answer figures

(1) 

(2) 

(3) 

(4) 

47. Select the related word/letters from the given alternatives.
DHLPTX: BEJNRV :: CGKOSW: ?
(A) IJKLMN
(B) AEIMQU
(C) UMQEIA
(D) AIOMUQ
(1) C
(2) D
(3) A
(4) B

48. Select the related word/letters from the given alternatives.
Hive: Bee :: Eyrie : ?
(1) Parrot
(2) Sparrow

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(3) Eagle
(4) Pigeon

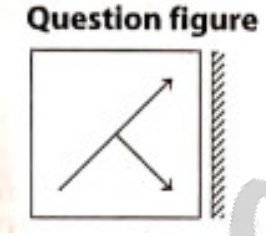
49. In this question, a statement is given, followed by two arguments, I and II. You have to consider the statement to be true even if it seems to be at variance from commonly known facts. You have to decide which of the given arguments, if any, is a strong argument.
Statement
Should one year of army training be compulsory for all Indian citizens? Arguments
I. No, the costs of training will be prohibitive and one year of labour will be lost.
II. Yes, army training helps make better citizens.
(1) If only Argument is strong
(2) If only Argument II is strong
(3) If both Arguments I and II are strong
(4) If neither Argument I nor II is strong

50. Find the missing number from the given responses

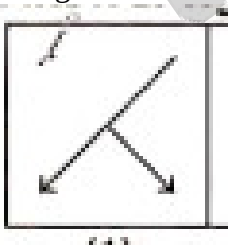


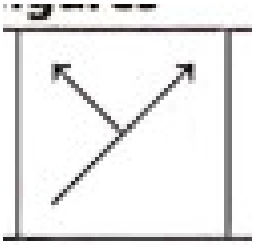
(1) 1
(2) 9
(3) 12
(4) 17

51. Which of the answer figure is exactly the mirror image of the given question figure, when mirror is held on the line AB?
Question figure



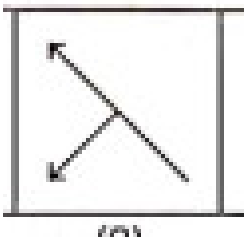
Answer figures

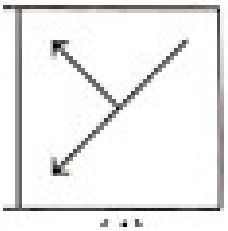
(1) 

(2) 

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(3) 

(4) 

52. Find the odd word/number from the given alternatives.
(1) Caprice
(2) Foible
(3) Quirk
(4) Whim

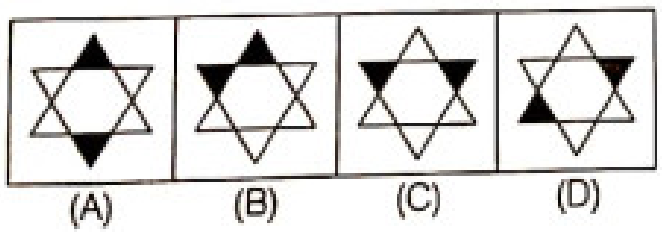
53. In the following question, arrange the given words in a meaningful and ascending order and select the option indicating the correct order.
(1) Fruit
(2) Pollen
(3) Corolla
(4) Stamen
(1) 2, 4,3,1
(2) 2, 3, 4, 1
(3) 2, 1, 3,4
(4) 1, 3, 4,2

54. Which one of the given responses would be a meaningful order of the following?
1 . Rivulet
2 . Ocean
3 . Tributory
4 . River
5 . Sea
6 . Rain
(1) 6, 5, 3, 1, 2, 4
(2) 5, 6, 1, 3, 2, 4
(3) 6, 1, 3, 4, 5, 2
(4) 6, 4, 1, 3, 5, 2

55. The question given below consists of a question followed by two statements labelled as I and II. We have to decide whether these statements give enough information required to answer the question or not.
Give Answer
How is Nisha related to Nidhi?
I. Mother of Nisha is the sister of Nidhi's father.
II. Nidhi is the daughter of only son of Nisha's grandfather.
(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 II together are needed to answer the question
(4) If Statements I and Il together are not sufficient to answer the question

56. Find the odd one out.

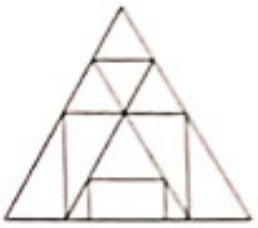
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(1) D
(2) A
(3) B
(4) C

57. A group of friends are sitting in an arrangement one each at the corner of an octagon. All are facing the centre. Mahima is sitting diagonally opposite to Rama, who is on Sushma's right. Ravi is next to Sushma and opposite to Girdhar, who is on Chandra's left. Savitri is not on Mahima's right but opposite to Shalini. Who is on Shalini's right?
(1) Ravi
(2) Mahima
(3) Girdhar
(4) Rama

58. Find out the number of triangles in the given figure.



(1) 13
(2) 15
(3) 16
(4) 17

59. You and your friend are working in your office. Suddenly, you heard the sound of bullet. Actually, it was the sound of the bullet which was fired by your friend at your CEO. What is your reaction?
(1) Try to escape the office
(2) Start shouting and create panic in the office
(3) Analyse the situation and try to understand the act of your friend
(4) Call the police and ask your friend to surrender himself

60. Vincent has a paper route. Each morning, he delivers 37 newspapers to customers in his neighborhood. It takes Vincent 50 minutes to deliver all the papers. If Vincent is sick or has other plans, his friend Thomas, who lives on the same street, will sometimes deliver the papers for him.
(1) Vincent and Thomas live in the same neighborhood
(2) It takes Thomas more than 50 minutes to deliver the papers.
(3) It is dark outside when Vincent begins his deliveries
(4) Thomas would like to have his own paper route.

General Awareness

61. The Newton's first law is also called as
(1) law of moments
(2) law of inertia
(3) law of energy

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(4) law of momentum

62. Sattriya is a major dance form of which state?
(A) Tamilnadu
(B) Assam
(C) Kerela
(D) Manipur
(1) B
(2) A
(3) C
(4) D

63. The period of revolution of a geostationary satellite is
(1) 365 days
(2) 30 days
(3) 24h
(4) changing continuously

64. Deficit financing means that the government borrows money from the (1) Revenue Department
(2) World Bank
(3) RBI
(4) None of the above

65. Which of the following storage device is volatile in nature?
(1) RAM
(2) Hard disk
(3) Magnetic tape
(4) ROM

66. The Green Revolution in India was the result of hard work of .....
(1) V Kurien
(2) MS Swaminathan
(3) T Kurien
(4) Charles Darwin

67. The Zoji La pass connects
(1) Srinagar and Leh
(2) Arunachal Pradesh and Tibet
(3) Champa and Spiti
(4) Kalimpong and Lhasa

68. 'Khullam Khulla' is an autobiography of which famous actor?
(1) Shatrughan Sinha
(2) Mithun Chakraborty
(3) Jeetendra
(4) Rishi Kapoor

69. Press Freedom Day is celebrated on
(1) May 2
(2) May 3
(3) May 4
(4) None of these

70. The atmospheric oxygen is used in
(1) combustion
(2) respiration
(3) formation of oxides of nitrogen
(4) All of the above

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71. The spoon dropped by an astronaut in a satellite will
(1) fall to the floor
(2) remain stationary
(3) continue to follow the motion of the satellite
(4) move tangentially away

72. Which Viceroy was associated with the 'Ilbert Bill' controversy?
(1) Lord Lytton
(2) Lord Ripon
(3) Lord Hardinge
(4) Lord Curzon

73. Which among the following is the west flowing river of India?
(1) Godavari
(2) Narmada
(3) Krishna
(4) Ganga

74. Which of these two water bodies are connected by the Suez Canal?
(1) Pacific ocean and Atlantic Ocean
(2) Black Sea and Red Sea
(3) Mediterranean Sea and Red Sea
(4) Mediterranean Sea and Black Sea

75. Alloy of copper and zinc are
(1) homogeneous mixtures
(2) heterogeneous mixture
(3) a compound
(4) a pure element

76. Find the person who does not belongs to the group
(1) Kalpana Chawla
(2) Rakesh Sharma
(3) Mahendra Singh Dhoni
(4) Sunita Williams

77. An electronic path, that sends signals from one part of computer to another is
(1) Logic gate
(2) Modem
(3) Bus
(4) Serial Port

78. ..... is an indigenous light combat aircraft in India.
(1) Vishal
(2) Garv
(3) Tejas
(4) Dhanush

79. Which Indian personalities won the 2018 Ramon Magsaysay award? (1) Thodur Madabusi Krishna and Sanjiv Chaturvedi
(2) Bharat Vatwani and Sonam Wangchuk
(3) Devdutt Pattanaik and Ramchandra Gupta
(4) Medha Patkar and Kailash Satyarthi

80. Rutherford's a-particles scattering experiment resulted into discovery
(1) electron
(2) proton

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(3) nucleus in the atom
(4) atomic mass

81. The joint sitting of the Lok Sabha and the Rajya Sabha is summoned by
(1) The Parliament
(2) The President
(3) The Speaker of the Lok Sabha
(4) The Chairman of the Rajya Sabha

82. A new coin called the Rupiya was issued for the first time by
(1) Alauddin Khilji
(2) Mohammad Shah Tughlaq
(3) Sher Shah Suri
(4) Akbar

83. Which of the following is the longest highway of India?
(1) NH-7
(2) NH-44
(3) NH-2
(4) None of these

84. Which gas is used for converting vegetable oils into saturated fats?
(1) H_2
(2) O_2
(3) Cl_2
(4) SO_2

85. The predominant organic acid in grapes is
(1) acetic acid
(2) citric acid
(3) malic acid
(4) tartaric acid

86. ..... was formerly known as the Minicoy and Aminidivi Islands and is the smallest Union Territory of India.
(A) Dlu
(B) Daman
(C) Pondicherry
(D) Lakshadweep
(1) A
(2) B
(3) C
(4) D

87. The tallest statue of the world is
(1) Statue of unity
(2) Statue of liberty
(3) Statue of Budhdha
(4) Adi Mahadev statue

88. Which of the following is not a function of control unit?
(1) Read instruction
(2) Interpret instruction
(3) Direct operation
(4) Provide control signals

89. You are given water, mustard oil, glycerine and kerosene. In which of these materials, a ray of light

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incident obliquely at same angle would bend the most?
(1) Kerosene
(2) Water
(3) Mustard oil
(4) Glycerine

90. The first Bank established in India was
(1) Pubjab National Bank
(2) Traders Bank
(3) State Bank of India
(4) Bank of Hindustan

91. Which was the main cause for starting of the Quit India Movement in 1942?
(1) Severe unrest among the people
(2) Report of Simon Commission
(3) Failure of the Cripps Mission
(4) British involved in the World War II

92. Who attended the Congress of Oppressed Nationalities at Brussels in 1927, on behalf of the National Congress?
(1) Jawaharlal Nehru
(2) Mahatma Gandhi
(3) Dr. Ansari
(4) Motilal Nehru

93. The first Partition of Bengal took place in the year
(1) 1904
(2) 1906
(3) 1903
(4) 1905

94. Saraswati Samman is given annually for outstanding contribution to
(1) Literature
(2) Education
(3) Fine arts
(4) Classical music

95. Which one of the following circulation is not a type of systemic circulation?
(1) Coronary circulation
(2) Hepatic portal circulation
(3) Pulmonary circulation
(4) Renal circulation

96. The finches of Galapagos islands provide an evidence in favour of
(1) special creation
(2) evolution due to mutation
(3) retrogressive evolution
(4) biogeographical evolution

97. The concept of judicial Review in our constitution has been taken from the constitution of
(A) Canada
(B) Australia
(C) England
(D) The USA
(1) C
(2) D
(3) A
(4) B

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98. 4th International Yoga day was celebrated all over the world. The them for International Yoga Day 2018 is
(1) Yoga for fit
(2) Yoga for healthy life
(3) Yoga for power
(4) Yoga for peace

99. The Parliamentary Committee which scrutinises the report of the Comptroller and Auditor General of India is
(1) Estimates Committee
(2) Select Committee
(3) Public Accounts Committee
(4) None of the above

100. Who has been elected the new president of Interpol?
(1) Kim Jong yong
(2) Bill Browder
(3) Alexander Prokopchut
(4) Meng Hongowei

Answer Key

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

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