RRB NTPC Tier I Official Paper (Held On: 6 Apr 2016 Shift 1) (Previous Year Paper)

RRB NTPC • 2016 • 100 questions • 90 minutes • Answer key and solutions

Take this paper as a timed mock test

Practise under exam conditions, then review your answers after you submit.

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Scan the QR code or click the link to open it.

Q1. Rearrange the jumbled letters to make meaningful words and then select the one which is different.

(a) LOWELY
(b) IFER
(c) THIWE
(d) WRONB

Q2. Find the value of '?', if the mean of the data set 18, 16, 22, 13 and ? is16.

A. 9
B. 11
C. 10
D. 12

(a) D
(b) B
(c) A
(d) C

Q3. Which of the following will fit in “?” place in the following series?

AN, BO, CP, DQ,?

(a) ES
(b) RE
(c) FS
(d) ER

Q4. The planet Mars is also known as the _____.

(a) Morning star
(b) Evening star
(c) Red planet
(d) Blue plane

Q5. What is the common name of the solution of calcium hydroxide?

(a) Lime water
(b) Diet soda
(c) Salt solution
(d) Vinegar

Q6. Nurse : Ward ? Teacher : ?

(a) Student
(b) Board
(c) Class
(d) Lesson

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Q7. 'Smiling Buddha' was the code name for _____.

(a) The rescue and relief operations after the cloudburst in Uttarakhand in 2013
(b) The rescue and relief operations after an earthquake hit Nepal in 2015
(c) Pokhran - II nuclear test conducted by Indian in 1998
(d) Pokhran - I nuclear test conducted by India in 1974

Directions

Directions: Consider the following information and answer questions based on it.

Six cars S, T, V, W, X and Y are parked in the parking lot, in a random order, from left to right, such that –

1. T is parked on the extreme right.
2. V is parked to the immediate right of Y and is two cars away from W.
3. X is to the immediate left of T and is four cars away from S.

Q8. Which of the following statement is true?

(a) There are two cars between T and V.
(b) There is one car between X and Y.
(c) There are three cars between Y and S.
(d) There is no car between X and W.

Q9. W is to the immediate right of?

(a) S
(b) Y
(c) V
(d) Cannot be determined

Q10. Which car is parked to the immediate left of X?

(a) V
(b) Y
(c) W
(d) T

Q11. Jantar Mantar in Delhi is historically important for

(a) Public meetings
(b) Hunger strikes
(c) Ancient sculptures
(d) Astronomical observatory

Q12. 'Bharat Stage Emission Standards' refers to

(a) Vehicular pollution
(b) Industrial pollution
(c) Water pollution
(d) Soil pollution

Q13. Statements followed by some conclusions are given below.

Statement:

1. M > L > N
2. N = R

Conclusions:

I. R > L

II. R < M

Find which of the given conclusions logically follows from the given statements.

(a) Only conclusion I follows.
(b) Only conclusion II follows.

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(c) Both I and II follow.
(d) Neither I nor II follows.

Q14. Find the odd statement: Two lines are perpendicular to each other if they are,

A. Adjacent sides of a rectangle.
B. Diagonals of a rhombus.
C. Hypotenuse and one side of a right-angle triangle.
D. Adjacent sides of a square.

(a) C
(b) B
(c) D
(d) A

Q15. A certain number men agreed to do a work in 20 days. 5 men did not come for work. Others completed the work in 40 days. Find the number of men who had agreed to do the work originally?

(a) 8
(b) 10
(c) 12
(d) 15

Q16. How many prime numbers are there between the positive integers 60 and 100?

(a) 9
(b) 6
(c) 7
(d) 8

Q17. Given is a question followed by two arguments. Decide which of the arguments is/are strong with respect to the question.

Question:

Should children be taught to wisely use the Internet?

Arguments:

I. Yes, this way, they will know to use the Internet responsibly.

II. No, they learn a lot by exploring on their own.

(a) Both arguments I and II are strong.
(b) Only argument II is strong.
(c) Neither argument I nor II is strong.
(d) Only argument I is strong.

Q18. Which among the followings is not the application of Washing Soda?

(a) It is used for removing the permanent hardness of the water.
(b) It is used in the manufacture of sodium compounds such as borax.
(c) For disinfecting drinking water to make it free of germs.
(d) It is used in glass, soap and paper industries.

Q19. Find the value of $y(y^4 - y^2 - y)$ when $y = 5$.

(a) 2900
(b) 2975
(c) 2925
(d) 2995

Q20. The sum of two positive integers is 34 and their difference is 8. Find their product.

(a) 308
(b) 273
(c) 209

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(d) 345

Q21. The LCM of two numbers is 66. The numbers are in the ratio 2 : 3. The sum of the numbers is

(a) 60
(b) 55
(c) 50
(d) 65

Q22. If P means '÷', R means '×', Q means '+' and S means '-', then 36 P 6 Q 7 R 8 S 11 =

(a) 45
(b) 54
(c) 51
(d) 62

Q23. Multitasking system specifically refers to

(a) More than one user.
(b) More than one process.
(c) More than one hardware.
(d) More than one IP address.

Q24. Union Government's School Nursery Yojana is about

(a) Creating environmental awareness in young minds.
(b) Streamlining admissions in nursery schools.
(c) Bringing nursery schools under regulations.
(d) Creating awareness about safety of children.

Q25. Ms. Chandra said that Lakshmi's husband is the only son of my grandfather. How is Ms. Chandra related to Lakshmi?

(a) Mother
(b) Daughter
(c) Cousin
(d) Mother in law

Q26. Chief Election Commissioner of India can be removed from the office by _____.

(a) Both houses of Parliament
(b) Union council of Ministers
(c) President of India
(d) Both 1 and 3 combined.

Q27. $\cos^2 90° + \text{cosec}^2 90° - \cot^2 45° = ?$

(a) 1
(b) 0
(c) ½
(d) √3/2

Q28. As per Census of India 2011, the population density was about

(a) 382 people per sq.km
(b) 353 people per sq.km
(c) 402 people per sq.km
(d) 428 people per sq.km

Q29. The difference between the ages of two sisters is 4 years when father's age is 54. Father is elder by 2 years to mother. Younger sister's age is half of mother's age. Find the age of elder sister?

(a) 26
(b) 27
(c) 29

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(d) 30

Q30. $2^2 – 3^3 + 4^3 – 6^2 = ?$

(a) 2
(b) 3
(c) 4
(d) 5

Q31. Syed Modi International Grand Prix Gold Championship is held every year at _____.

(a) Chandigarh
(b) Lucknow
(c) Delhi
(d) Hyderabad

Q32. Name the first woman to head a paramilitary force.

(a) Divya Ajith
(b) Archana Ramasundaram
(c) Punita Arora
(d) Ashwini Pawar

Q33. Who was known as Badshah Khan?

(a) Mohammed Ali Jinnah
(b) Abdul Kalam Azad
(c) Khan Abdul Gaffar Khan
(d) Khan Abdul Wali Khan

Directions

The following table represents the rainfall (in mm) of five states from June to September in a year.

	June	July	August	September
JK	1100	1100	1000	1200
HP	1100	1100	1000	1300
WB	1400	1300	1200	1000
GA	1000	1300	1500	1700
TN	1200	1050	1000	1100

Consider the information and answer questions based on it.

Q34. Which state has the lowest average rainfall?

(a) JK
(b) HP
(c) WB
(d) TN

Q35. Which state shows a gradual increase in its rainfall from June to September?

(a) HP
(b) WB
(c) GA
(d) TN

Q36. Which month received the lowest rainfall in the year?

(a) June
(b) July
(c) August

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(d) September

Q37. The product of LCM and HCF of two numbers is 48. The difference between two numbers is 8. Find those numbers?

(a) (6, 8)
(b) (12, 4)
(c) (24, 2)
(d) (16, 3)

Q38. During morning walk, a man covers a distance of 3 km, 4 km, 3.5 km, 5km and 4.5 km from Monday to Friday, respectively. How much distance should he cover on two more days, so that his average per week becomes 4 km per day?

(a) 4 km
(b) 8 km
(c) 5 km
(d) 6 km

Q39. Find the HCF & LCM of 16, 24?

(a) 8, 48
(b) 4, 12
(c) 2, 24
(d) 4, 48

Q40. Saffron is produced in a large scale in

(a) Himachal Pradesh
(b) Gujarat
(c) Jammu and Kashmir
(d) Kerala

Q41. A man purchased a cycle for Rs. 3,000/ - and agreed to pay 12% on the amount as interest. He repaid principal and interest in 12 equal monthly installments. Find the amount of each installment.

(a) Rs. 260
(b) Rs. 240
(c) Rs. 280
(d) Rs. 300

Q42. The political system in Afghanistan is known as _____.

(a) Islamic State of Afghanistan
(b) Islamic Republic of Afghanistan
(c) Islamic emirate of Afghanistan
(d) Islamic Government of Afghanistan

Q43. If ‘are you sam’ = ‘ri ai ki’, ‘all hate you’ = ‘vi li ri’ and ‘all are fake’ = ‘mi ai li’ then which represents ‘hate’?

(a) ri
(b) li
(c) vi
(d) ai

Q44. Pointing to K, M said that she was the daughter of the only son of her grandfather. How M is related to K?

(a) Mother
(b) Maternal aunt
(c) Daughter
(d) Sister

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Q45. Find the mean value of 2, 2, 2, 4, 6, 7.

(a) 3.83
(b) 4.15
(c) 4.13
(d) 4.70

Q46. Who won majority of the men's singles tennis grand slam tournaments in 2015?

(a) Andy Murray
(b) Novak Djokovic
(c) Roger Federer
(d) Stanislas Wawrinka

Q47. A sum of Rs. 4000 amounts to Rs. 5200 in 10 yr by simple interest.What will be the total interest if the rate of interest is increased by 4%?

(a) Rs. 1600
(b) Rs. 2360
(c) Rs. 2800
(d) Rs. 5400

Q48. If CABINET = EIACBTN, then COMPUTE = _____.

(a) TPOMECU
(b) TPOCMEU
(c) PTOCMEU
(d) CMUEOPT

Q49. The Constituent Assembly adopted Indian national flag on

(a) 22^(nd) July 1947
(b) 22^(nd) August 1947
(c) 22^(nd) January 1948
(d) 22^(nd) October 1947

Q50. When milk becomes sour, _____ is produced.

A. Lactose
B. Lactic acid
C. Salicylic acid
D. Linoleic acid

(a) A
(b) D
(c) B
(d) C

Q51. A shop keeper purchase 10 kg of rice and 20 kg of sugar at Rs. 75 and Rs. 85 per kg respectively. On selling, he gained 20% on rice and 10% on sugar. What was the total sale price?

(a) Rs. 2,695
(b) Rs. 2,770
(c) Rs. 2,800
(d) Rs. 2,750

Q52. Yellow fever is mainly transmitted among humans by

(a) Female mosquito bite
(b) Male mosquito bite
(c) Water
(d) Air

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Q53. Read the given statements carefully and answer the question.

The main reasons for vehicles crawling on city roads during peak hours are increasing number of private vehicles and double parking which is a very common sight. A survey reveals that vehicles move on an average at 20 kmph during peak hours.

Which of the following is true according to the given statement?

A. Vehicles move at 20 kmph during 5 pm to 9 pm.

B. Double parking is not a violation of traffic rules in the city.

C. The number of private vehicles have gone up.

D. The number of Government vehicles remain the same.

(a) A
(b) D
(c) C
(d) B

Q54. Which of the following is in ascending order?

(a) 0.65, 0.76, 0.67, 0.86
(b) 0.65, 0.86, 0.67, 0.76
(c) 0.65, 0.67, 0.76, 0.86
(d) 0.67, 0.65, 0.76, 0.86

Q55. Which one does not belong to the group?

A. Zee

B. Screen

C. Colors

D. Sony

(a) C
(b) A
(c) B
(d) D

Q56. A path of 2.5 m width surrounds a rectangular garden of length 10 and breadth 8 m. Area of the garden, inclusive of the path is

(a) 130.25 sq.m
(b) 131.25 sq.m
(c) 195.00 sq.m
(d) 162.50 sq.m

Q57. Find the similarity in the following:

Leopard, Tiger, Jaguar, Lion

A. All of them are found in India.

B. All of them belong to the cat family.

C. All of their young ones are called kittens.

D. There is no similarity.

(a) D
(b) A
(c) C
(d) B

Q58. The end of British rule in India came in the year

(a) 1946
(b) 1947
(c) 1948
(d) 1950

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Q59. A trader bought 10 kg of rice at Rs. 400 per kg. He sold half the quantity at 20% loss and remaining at 10% profit. What was his net profit or loss in percentage?

(a) 5% loss
(b) 5% gain
(c) 10% loss
(d) 10% gain

Q60. Yuvraj is Dipti's mother's father's only granddaughter's son's cousin. How is Yuvraj related to Dipti?

A. Nephew
B. Son
C. Maternal Uncle
D. Grandson

(a) A
(b) C
(c) B
(d) D

Q61. The branch of science that studies cells is called _____.

(a) Cytology
(b) Entomology
(c) Homoplastic
(d) Hormonology

Q62. Who was the first chairman of ISRO?

(a) Kasturirangan
(b) Vikram Sarabhai
(c) Homi K. Bhabha
(d) C. V. Raman

Q63. Find the odd statement out in relation to firewall.

(a) Firewall can be a software.
(b) Firewall can be a hardware.
(c) Firewall can be a combination of software & hardware.
(d) Firewall protects computer from fire.

Q64. What will be the cost of leveling a circular ground of diameter 28 m, if the charges are Rs. 125 per sq.m? ($\pi = 22/7$)

(a) Rs. 76, 000
(b) Rs. 76, 400
(c) Rs. 76, 800
(d) Rs. 77, 000

Q65. The popular Yankee Stadium in USA is located at

(a) Boston
(b) New York
(c) Las Vegas
(d) Washington

Q66. $\operatorname{cosec}(90° - \theta) = ?$

(a) $\tan\theta$
(b) $\cot\theta$
(c) $\sec\theta$
(d) $\cos\theta$

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Q67. An article was sold for Rs. 2100 at a profit of 25%. What is its cost price?

(a) Rs. 1,620
(b) Rs. 1,640
(c) Rs. 1,660
(d) Rs. 1,680

Q68. In a certain code language, if HISTORY is coded as 7326845 and CIVICS is coded as 135312, then VISITOR will be coded as?

(a) 5323684
(b) 6843532
(c) 8463352
(d) 5323648

Q69. Read the given statements carefully and answer the question.

Spending money should be based on logical decision and not compulsive or impulsive behavior. One should not fall prey to possible hidden agenda of the sellers who come out with ‘sale’, ‘free offer’ etc. price is what you pay, value is what you should get.

(a) When you pay for something, look for value.
(b) Any discounted sale has a hidden agenda against the consumer.
(c) People do compulsive or impulsive and not logical spending.
(d) Sellers are cheating the public.

Q70. An electric motor converts

(a) Mechanical energy into electrical energy.
(b) Thermal energy into electrical energy.
(c) Electrical energy into mechanical energy.
(d) Radiant energy into electrical energy.

Q71. When the car takes a bend, the force that pushes us to the outside of the curve is the

(a) Centripetal Force
(b) Centrifugal Force
(c) Frictional Force
(d) Tension Force

Q72. The Prime Minister is the ex - officio President of

(a) CLRI
(b) CSIR
(c) ISRO
(d) DRDO

Q73. The name of the newest Antarctica research base commissioned in 2015 is

(a) Dakshin Gangotri
(b) Maitri
(c) Bharati
(d) Lotus

Q74. A car covers the first 30 km at a speed of 60 kmph and the next 20 km at 80 kmph. Find the average speed?

(a) 65.67 kmph
(b) 65.33 kmph
(c) 66.33 kmph
(d) 66.67 kmph

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Q75. Indian sports person Gagan Narang is associated with

(a) Archery
(b) Air rifle shooting
(c) Wrestling
(d) Badminton

Q76. Which number will fit in '?' place in the following series?

12, 23, 45, 89, ?

(a) 175
(b) 176
(c) 177
(d) 178

Q77. Microsoft Corporation was founded in

(a) 1979
(b) 1981
(c) 1975
(d) 1965

Q78. If F = 6, THE = 33 then WOMAN = ?

(a) 64
(b) 65
(c) 66
(d) 67

Q79. If the mathematical operators, '×' means '+', '÷' means '×', '+' means '-', and '-' means '÷', then

22 + 36 – 12 × 6 ÷ 4 = ?

(a) -21
(b) 43
(c) 68
(d) 53

Q80. Which organ is not a gland?

(a) Adrenal
(b) Liver
(c) Pituitary
(d) Gall bladder

Q81. Who was conferred the Arjuna Award for wrestling in 2015?

(a) Babita Kumari
(b) Abhilasha Shashikant
(c) Yumnam Sanathoi Devi
(d) M.R. Poovamma

Q82. Every set in the dotted decimal format of IP address is called

(a) Subnet
(b) Octet
(c) Subset
(d) IP set

Q83. If x + y = 19 and x – y = 7, then xy = ?

(a) 13
(b) 48
(c) 78
(d) 72

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Q84. A tap can fill a tank in 20 minutes. If a leakage is capable of emptying the tank in 60 minutes, the tank will be filled in

(a) 1 hour
(b) 45 minutes
(c) 30 minutes
(d) 50 minutes

Q85. The arithmetic mean of the marks scored by students of a class is 58. 20% of them secured a mean score of 60. The mean score of another 30% of the students was 40. The mean score of the remaining students is

(a) 65
(b) 66
(c) 68
(d) 70

Q86. Parliament House in Delhi was constructed during

(a) 1895 – 1900
(b) 1901 – 1909
(c) 1921 – 1927
(d) 1931 – 1935

Q87. Anaemic condition is due to

(a) Deficiency of platelets.
(b) Deficiency of RBC.
(c) Deficiency of WBC.
(d) Deficiency of oxidants.

Directions

Directions: Consider the following information and answer the questions based on it.

Out of 50 kids in a colony, 10 like only basketball, 25 like only football, 10 like both volleyball and football and 5 like only volleyball.

Q88. How many kids do not like volleyball?

(a) 15
(b) 25
(c) 35
(d) 45

Q89. The ratio of kids who like football to those who like only basketball is

(a) 5/2
(b) 7/2
(c) 4
(d) 5

Q90. How many kids like only one sport?

(a) 50
(b) 40
(c) 35
(d) 25

Q91. Four pairs of words are given. Find the odd one out.

(a) White : Snow
(b) Red : Blood
(c) Brown : Sky
(d) Green : Grass

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Q92. The recent trial run of 'odd - even' traffic scheme for Delhi was based on

(a) odd - even calendar months
(b) odd - even calendar dates
(c) vehicle registration numbers
(d) odd - even hours during 8 am to 8 pm

Q93. Read the given statements carefully and answer the question.

Taxes on eating out have been increased. Eating out is not an act of the luxurious. Over-worked and time-pressed poor also need to eat out.

A. The poor enjoy the luxury of eating out.

B. Eating out is luxury for the poor.

C. Eating out is need-based for the poor also.

D. Tax on eating out must be reduced.

(a) B
(b) A
(c) C
(d) D

Q94. The ratio of marks obtained by a student in 3 subjects was 1 : 2 : 3. The school decided to allow grace marks of 5% for each subject. Find the student's new ratio?

(a) 1 : 2 : 3
(b) 2 : 3 : 4
(c) 2 : 3 : 1
(d) 3 : 2 : 1

Q95. A bus runs at 50 kmph. If the speed is increased by 10 kmph, it will cover 20 km more in the same time. Find the actual distance covered?

(a) 100 km
(b) 150 km
(c) 200 km
(d) 250 km

Q96. The Hornbill festival is celebrated in

(a) Arunachal Pradesh
(b) Nagaland
(c) Odisha
(d) West Bengal

Q97. Four pairs of words are given. Find the odd one out.

A. Rhombus : Four-sided polygon

B. Nonagon : Nine-sided polygon

C. Octagon : Eight-sided polygon

D. Hexagon : Six-sided polygon

(a) B
(b) A
(c) D
(d) C

Q98. Find the 4^(th) proportional to 9, 17 and 27.

(a) 57
(b) 48
(c) 51
(d) 53

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Q99. Union Government Budget deficit for a particular financial year represents

(a) Total amount of revenue receipts.
(b) Total amount of capital receipts.
(c) The amount of money that the Government has to borrow.
(d) Total amount of estimated Government expenditure.

Q100. Which aircraft carrier was formally inducted into the Indian Navy by Prime Minister Narendra Modi in the year 2014?

(a) INS Vikrant
(b) INS Vikramaditya
(c) INS Viraat
(d) INS Chakra

ANSWER KEY

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

SOLUTIONS

Q1. Answer: (b) IFER

LOWELY is written as YELLOW
IFER is written as FIRE
THIWE is written as WHITE
WRONB is written as BROWN
All above are name of colour except FIRE.
Hence IFER is different.

Q2. Answer: (b) B

Formula used:
Mean = Total sum/Number of terms
Calculation:
Total sum = 18 + 16 + 22 + 13 + ? = 69 + ?
Number of terms = 5
Mean = Total sum/Number of terms
Therefore (69 + ?)/5 = 16
=> ? = 80 - 69 = 11

Q3. Answer: (d) ER

The relation between terms is as follows,
Hence ER is the correct option.

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Q4. Answer: (c) Red planet

Mars is often called the 'Red Planet' because it appears in the sky as an orange - red star. The colour caused the ancient Greeks and Romans to name it after their god of war. Today, thanks to visiting spacecraft, we know that the planet's appearance is due to rust in the Martian rocks.

Q5. Answer: (a) Lime water

The correct answer is Lime water.

Calcium hydroxide traditionally called slaked lime is an inorganic compound with the chemical formula Ca(OH)2. It is a colorless crystal or white powder and is obtained when calcium oxide (called lime or quicklime) is mixed or soaked with water

Q6. Answer: (c) Class

Nurse check the patient in the ward, similarly teacher teaches the students in class.

Q7. Answer: (d) Pokhran - I nuclear test conducted by India in 1974

• Smiling Buddha was the assigned code name of India's first successful nuclear bomb test on 18 May 1974.

• The bomb was detonated on the army base, Pokhran Test Range, in Rajasthan by the Indian Army under the supervision of several key army officials

Q8. Answer: (b) There is one car between X and Y.

1. T is parked on the extreme right.

					T

2.X is to the immediate left of T and X is four cars away from S

S				**X**	**T**

3. V is parked to the immediate right of Y and V is two cars away from W.

S	**W**	**Y**	**V**	**X**	**T**

From here we can say that between X and Y there is only one car.

Q9. Answer: (a) S

1. T is parked on the extreme right.

					T

2.X is to the immediate left of T and X is four cars away from S

S				**X**	**T**

3. V is parked to the immediate right of Y and V is two car away from W.

S	**W**	**Y**	**V**	**X**	**T**

From here we can say that W is immediate right of S.

Q10. Answer: (a) V

1. T is parked on the extreme right.

					T

2.X is to the immediate left of T and X is four cars away from S

S				**X**	**T**

3. V is parked to the immediate right of Y and V is two car away from W.

S	**W**	**Y**	**V**	**X**	**T**

From here we can say that V is parked to the immediate left of X.

Q11. Answer: (d) Astronomical observatory

• In the early 18th century, Maharaja Jai Singh II of Jaipur constructed five Jantar Mantar in total, in New Delhi, Jaipur, Ujjain, Mathura, and Varanasi.

• They were completed between 1724 and 1735. All these are Astronomical observatory. The Jantar Mantar monument in Jaipur,

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• Rajasthan is a collection of nineteen architectural astronomical instruments, built by the Rajput king Sawai Jai Singh II, and completed in 1734 CE.

• It features the world's largest stone sundial and is a UNESCO World Heritage site.

Q12. Answer: (a) Vehicular pollution

Bharat stage emission standards (BSES) are emission standards instituted by the Government of India to regulate the output of air pollutants from internal combustion engines and Spark - ignition engines equipment, including motor vehicles. The standards and the timeline for implementation are set by the Central Pollution Control Board under the Ministry of Environment & Forests and climate change.

Q13. Answer: (b) Only conclusion II follows.

Conclusion 1:

R > L From statements we write, L > N, and N = R, So L > R, hence this conclusion is wrong.

Conclusion 2:

R < M From statements we write, M > N, and N = R, so M > R, hence this conclusion is right.

Hence only conclusion II follows.

Q14. Answer: (a) C

Explanation:

We know,

For a Rectangle, the adjacent sides will be perpendicular to each other (Because Angle between them = 90°)

For a Rhombus, the two diagonals will be perpendicular to each other (Because Angle between them = 90°)

For a Square, the adjacent sides will be perpendicular to each other (Because Angle between them = 90°)

But,

For a Right-angle triangle, Hypotenuse and One side will not be perpendicular to each other

Therefore The odd statement is C

Note: For a Right-angle triangle, the other two sides except Hypotenuse will be perpendicular to each other

Q15. Answer: (b) 10

Let the number of men who agreed to do the work in 20 days be x

=> work done by x men = 20x

Also given (x - 5) men will complete the work in 40 days

=> work done by (x - 5) men = 40(x - 5)

Since the work done by both are same

=> 20x = 40(x - 5)

=> 20x - 40x = - 200

=> x = 10

Therefore No of men who had agreed to do the work originally = 10

Q16. Answer: (d) 8

Prime numbers from 1 - 100:

Prime numbers between 60 to 100 is 61, 67, 71, 73, 79, 83, 89 and 97

Therefore Total number of prime numbers between 60 to 100 are 8

Q17. Answer: (d) Only argument I is strong.

In the 21^(st)-century internet is expanding exponentially and contains a lot of information that should not be viewed by children. Argument I holds strong on the note that children should “know how to use the Internet responsibly”. While “exploring on their own” will definitely help them to “learn a lot”, it can mislead children and influence them in a wrong way. Thus argument II does not hold strong.

Hence “only argument I is strong”.

Q18. Answer: (c) For disinfecting drinking water to make it free of germs.

Option 3 is correct, i.e. For disinfecting drinking water to make it free of germs.

• Uses of washing soda:

• Sodium carbonate (washing soda) is used in glass, soap and paper industries.

• It is used in the manufacture of sodium compounds such as borax.

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• Sodium carbonate can be used as a cleaning agent for domestic purposes.

• It is used for removing the permanent hardness of the water.

Note:

• Uses of sodium hydrogen carbonate (NaHCO3):

• For making baking powder, which is a mixture of baking soda (sodium hydrogen carbonate) and a mild edible acid such as tartaric acid. When baking powder is heated or mixed in water, the following reaction takes place –

• NaHCO3+ H+→ CO2+ H2O + Sodium salt of an acid.

• Carbon dioxide produced during the reaction causes bread or cake to rise to make them soft and spongy.

• Sodium hydrogen carbonate is also an ingredient in antacids.

• Being alkaline, it neutralizes excess acid in the stomach and provides relief.

• It is also used in soda-acid fire extinguishers.

• Bleaching powder is used:

• For bleaching cotton and linen in the textile industry, for bleaching the wood pulp in paper factories and for bleaching washed clothes in a laundry.

• As an oxidizing agent in many chemical industries; and

• For disinfecting drinking water to make it free of germs.

Q19. Answer: (b) 2975

From the given data,

y(y^4 - y² - y)

= 5 × (5^4 - 5² - 5)

= 5 × (625 - 25 - 5)

= 5 × 595

= 2975

Q20. Answer: (b) 273

Let the two positive numbers be x and y

From the given data,

=> x + y = 34 - - - - equation (1)

=> x - y = 8 - - - equation (2)

By adding equation (1) and equation (2), we get

=> 2x = 42

=> x = 42/2 = 21

Substitute x = 21 in equation (1)

=> x + y = 34

=> 21 + y = 34

=> y = 34 – 21 = 13

Therefore Their product = xy = 21 × 13 = 273

Q21. Answer: (b) 55

Let the numbers be 2x and 3x

LCM of 2x and 3x = 6x

Given that LCM = 66

=> 6x = 66

=> x = 66/6 = 11

Therefore The numbers are 22 and 33

Therefore Sum of the numbers = 22 + 33 = 55

Q22. Answer: (c) 51

P means ÷

R means ×

Q means +

S means -

So we can write 36 P 6 Q 7 R 8 S 11 as 36 ÷ 6 + 7 × 8 – 11

Hence value of this is = 6 + 56 – 11 = 51

Q23. Answer: (b) More than one process.

Multitasking, in an operating system, is allowing a user to perform more than one computer task (such as the operation of an application program) at a time. The operating system is able to keep track of where you are in these tasks and go from one to the other without losing information.

Q24. Answer: (a) Creating environmental awareness in young minds.

The Government has launched the School Nursery Yojana, an initiative to bring students closer to nature, by involving them in raising of saplings in nurseries created in schools. The underlying theme of the Yojana is to plant a tree for sustainable future and to make the nation clean and green. Under the Yojana, students will sow the seeds, grow saplings in the school nursery, as part of practical exercise for Biology classes and extra - curricular activities for students of other streams. The students will also carry out a tree census in their school and the locality.

Q25. Answer: (b) Daughter

Here Ms. Chandra said that Lakshmi's husband is only son of my grandfather, means grandfather of Ms. Chandra is father of Lakshmi's husband.

Hence Ms. Chandra is daughter of Lakshmi's husband.Now from here we can say that Ms. Chandra is daughter of Lakshmi.

Q26. Answer: (d) Both 1 and 3 combined.

The correct answer is Both 1 and 3 combined.

Key Points

• The Chief Election Commissioner can be removed from office only through the process of Impeachment.

• The Chief Election Commissioner cannot be removed from office, except on the grounds and in the manner on which the Supreme Court judges can be removed.

• CEC has a tenure of six years, or up to the age of 65 years, whichever is earlier.

• He enjoys the same official status, salary, and perks as available to Judges of the Supreme Court of India and High court.

Important Points

• Chief Election Commissioner can be removed from his office by the President on the basis of a resolution passed to that effect by both the houses of parliament with a two-thirds majority in both the Lok Sabha and the Rajya Sabha on the grounds of proved misbehaviour or incapacity.

As the basic resolution needs to be passed by both the Houses of Parliament and then approved by the President so, both 1 and 3 combined is the correct answer here.

Q27. Answer: (b) 0

From the given data,

=> $\cos^2 90° + \text{cosec}^2 90° - \cot^2 45° = (0)^2 + (1)^2 - (1)^2 = 0$

Q28. Answer: (a) 382 people per sq.km

The records of population density 2011 of India state that the density 2011 has increased from a figure of 324 to that of 382 per square kilometre, which is considerably higher than the average population density of the world 2011, which are 46 per square kilometre.

Q29. Answer: (d) 30

Let the elder sister's age be x and younger sister's age be y

Given that difference between the ages of two sisters is 4 years

=> x - y = 4

Given that father's age is 54, then mother's age = 54 – 2 = 52

Also given that Younger sister's age y = half of the mother's age = 52/2 = 26

Therefore Age of elder sister x = y + 4 = 26 + 4 = 30 years

Q30. Answer: (d) 5

From the given data,

=> $2^2 – 3^3 + 4^3 – 6^2 = 4 - 27 + 64 - 36 = 5$

Q31. Answer: (b) Lucknow

The 2017 Syed Modi International Grand Prix Gold was the second grand prix's badminton tournament of the 2017 BWF Grand Prix Gold and Grand Prix. The tournament was held at the Babu Banarasi Das Indoor Stadium in Lucknow, India on 24 – 29 January 2017 and had a total purse of $120, 000.

Q32. Answer: (b) Archana Ramasundaram

Senior IPS officer Archana Ramasundram was appointed as director general of Sashastra Seema Bal (SSB), the first woman to head a paramilitary force

Q33. Answer: (c) Khan Abdul Gaffar Khan

Abdul ghaffar khan also known as Badshah khan, was a Pashtun independence activist against the rule of the British Raj. He was a political and spiritual leader known for his nonviolent opposition, and a lifelong pacifist and devout Muslim

Q34. Answer: (d) TN

From the given data,

Total rainfall of JK for 4 months = 1100 + 1100 + 1000 + 1200 = 4400

Total rainfall of HP for 4 months = 1100 + 1100 + 1000 + 1300 = 4500

Total rainfall of WB for 4 months = 1400 + 1300 + 1200 + 1000 = 4900

Total rainfall of GA for 4 months = 1000 + 1300 + 1500 + 1700 = 5500

Total rainfall of TN for 4 months = 1200 + 1050 + 1000 + 1100 = 4350

Therefore Rainfall is lowest for TN

Q35. Answer: (c) GA

From the given data,

Increase of rainfall for JK from June to September = (1200 - 1100) = 100

Increase of rainfall for HP from June to September = (1300 - 1100) = 200

Increase of rainfall for WB from June to September = (1000 - 1400) = - 400

Increase of rainfall for GA from June to September = (1700 - 1000) = 700

Increase of rainfall for TN from June to September = (1100 - 1200) = - 100

Therefore GA shows the gradual increase in its rainfall from June to September

Q36. Answer: (c) August

Total rainfall for the month of June of five states = 1100 + 1100 + 1400 + 1000 + 1200 = 5800

Total rainfall for the month of July of five states = 1100 + 1100 + 1300 + 1300 + 1050 = 5850

Total rainfall for the month of August of five states = 1000 + 1000 + 1200 + 1500 + 1000 = 5700

Total rainfall for the month of September of five states = 1200 + 1300 + 1000 + 1700 + 1100 = 6300

Therefore Rainfall is lowest for the month of August

Q37. Answer: (b) (12, 4)

HCF × LCM = 48 (given)

Let the two numbers be 'x' & 'y'

As we know,

HCF × LCM = Product of numbers

=> x × y = 48

=> x – y = 8 (given)

=> Factors of xy = 48 are (1, 48), (2, 24), (3, 16), (4, 12), (6, 8)

=> The only pair which satisfies both the conditions is (4, 12)

Therefore Answer is (12, 4)

Q38. Answer: (b) 8 km

Let the distance covered in two more days be x km

=> (3 + 4 + 3.5 + 5 + 4.5 + x)/7 = 4

=> 20 + x = 28

=> x = 28 - 20 = 8

Therefore Distance covered in two more days = 8 km

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Q39. Answer: (a) 8, 48

From given data,

Factors of 16 are 1, 2, 4, 8, 16

Factors of 24 are 1, 2, 3, 4, 6, 8, 12, 24

Therefore Highest common factor (HCF) is 8

LCM of 16, 24 = 2 × 2 × 2 × 2 × 3 = 16 × 3 = 48

Q40. Answer: (c) Jammu and Kashmir

The cultivation of saffron is a traditional art. In India, 5, 707 hectares of land comes under its cultivation. Its annual production is around sixteen thousand kilograms. The state of Jammu and Kashmir tops the list of the saffron growing states in India.

Q41. Answer: (c) Rs. 280

From given data,

Principal P = Rs. 3000

Rate R = 12%

Time T = 1/12 year

Amount divided into 12 months = Rs.3000/12 = Rs. 250

Simple interest for one month = P × T × R/100 = 3000 × 1/12 × 12 /100 = Rs. 30

Therefore Amount for each installment = 250 + 30 = Rs. 280

Q42. Answer: (c) Islamic emirate of Afghanistan

• An Islamic republic is a name given to several states in countries ruled by Islamic laws, including the Islamic Republics of Pakistan, Iran, Afghanistan, and Mauritania.

• Pakistan first adopted the title under the constitution of 1956.

• Islamic Emirate of Afghanistan was an Islamic state established in September 1996 when the Taliban began their rule of Afghanistan after the fall of Kabul.

Q43. Answer: (c) vi

1. Are you sam = ‘ri ai ki’

2. All hate you = ‘vi li ri’

from 1^(st) and 2^(nd) we can say that you = ‘ ri’

3. All are fake = ‘mi ai li’

From 2^(nd) and 3^(rd) we can say that All = ‘li’

Now from 2^(nd) we can say that hate means ‘vi’ as we know meaning of All and You.

Q44. Answer: (d) Sister

M said that “she (means K) was daughter of the only son her grandfather” means she was daughter of her grandfather’s only son, grandfather’s only son is father of M, and daughter of his father is nothing but her sister. Hence M is sister of K as gender of M is female represented by word “her”.

Hence M is sister of K.

Q45. Answer: (a) 3.83

Sum of the given numbers = 2 + 2 + 2 + 4 + 6 + 7 = 23

Mean of the given values = 23/6 = 3.83

Q46. Answer: (b) Novak Djokovic

Novak Djokovic has won the majority of mens single tennis grand slam tournament in 2015. He won US open defeating Roger federer and Australia open defeating Andy Murray

Q47. Answer: (c) Rs. 2800

S.I = PRT/100

Here P = Principle, R = Rate T = Time, S.I = Simple interest

S. I = 5200 – 4000 = (4000 × R × 10)/100

=> R = (1200 × 100)/(4000 × 10) = 3%

New rate = 3 + 4 = 7%

Interest = (4000 × 7 × 10)/100 = Rs. 2800

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Q48. Answer: (b) TPOCMEU

Here, alphabets are interchanged

CABINET = EIACBTN

In this 1^(st) place alphabets goes to 4^(th) place

From here now we can write COMPUTE as TPOCMEU.

Q49. Answer: (a) 22^(nd) July 1947

The National Flag of India was adopted in its present form during the meeting of Constituent Assembly held on the 22 July 1947, a few days before India's independence from the British on 15 August, 1947.

Q50. Answer: (c) B

The correct answer is Lactic acid.

Key Points

Lactic Acid:

• Lactic acid is found in sour milk products like laban, yoghurt, kefir, curd, cottage cheeses, etc.

• Lactic acid is also in our blood, where it's deposited by muscle and red blood cells.

• Lactic acid or lactate in milk is due to the fermentation of lactose caused mainly by lactic bacteria.

Additional Information

Salicylic acid:

• Salicylic acid also called ortho-hydroxybenzoic acid, a white, crystalline solid that is used chiefly in the preparation of aspirin and other pharmaceutical products.

• The free acid occurs naturally in small amounts in many plants.

• Salicylic acid is a component of preparations used to combat warts, corns, calluses, and various skin diseases.

Linoleic acid:

• Linoleic acid is a polyunsaturated omega-6 fatty acid.

• It is a colourless or white oil that is virtually insoluble in water but very soluble in acetone, benzene, diethyl ether and ethanol.

• It typically occurs in nature as a triglyceride (ester of glycerin) rather than as a free fatty acid.

• It is one of two essential fatty acids for humans, who must obtain it through their diet.

Lactose:

• Lactose is a large sugar molecule that is made up of two smaller sugar molecules, glucose and galactose.

• In order for lactose to be absorbed from the intestine and into the body, it must first be split into glucose and galactose.

• The glucose and galactose are then absorbed by the cells lining the small intestine.

Q51. Answer: (b) Rs. 2,770

From the given data,

Cost price of 10 kg of rice = 10 × 75 = Rs. 750

Cost price of 20 kg of sugar = 20 × 85 = Rs. 1700

Given that profit for rice is 20% and profit for sugar is 10%

We know that profit = Cost price × profit% /100 = 750 × 20/100 = Rs. 150

=> Selling Price of rice = cost price of rice + profit on rice = 150 + 750 = Rs. 900

Also for profit 10% for sugar

=> Profit on sugar = 1700 × 10/100 = Rs. 170

=> Selling Price of sugar = Cost price of sugar + profit on sugar = 1700 + 170 = Rs. 1870

Therefore Total sale = SP of rice + SP of sugar = 900 + 1870 = Rs. 2770

Q52. Answer: (a) Female mosquito bite

Yellow fever is caused by a flavivirus; it is transmitted by the bite of mosquitoes, usually the Aedes aegypti mosquito, which had become infected by biting an infected human or animal (a monkey). An infected mosquito is a source of infection for the rest of its life.

Q53. Answer: (c) C

Explanation:

For A, 'Vehicles move at 20 kmph during 5 pm to 9 pm'

Here, there is no mentioning about the time duration, 5 pm to 9 pm in the given statement

For B, 'Double parking is not a violation of traffic rules in the city'

Here, there is no mentioning about the violation of traffic rules in the given statement

For C, 'The number of private vehicles have gone up'

Here, in the statement it is given that 'The main reasons for vehicles crawling on city roads during peak hours are increasing number of private vehicles'

Therefore It is clear from the statement that 'The number of private vehicles have gone up'

For D, 'The number of Government vehicles remain the same'

Here, there is no mentioning about the number of government vehicles in the given statement

Therefore Statement C is true according to the given statement

Q54. Answer: (c) 0.65, 0.67, 0.76, 0.86

Ascending order is the order of smaller value to the bigger value.

i.e. 0.65, 0.67, 0.76, 0.86

Therefore Option C is the answer.

Q55. Answer: (c) B

Zee, color and Sony all are TV channel name except "Screen"

Hence, "Screen" does not belong to the group.

Q56. Answer: (c) 195.00 sq.m

Given that path has width 2.5 m

Length of the garden inclusive of the path = 10 + 2(2.5) = 15

Breadth of the garden inclusive of the path = 8 + 2 (2.5) = 13

Therefore Area of the garden, inclusive of the path = length × breadth = 15 × 13 = 195 sq.m

Q57. Answer: (d) B

A. All of them are found in India. → Not True (As Jaguar is not found in India, Jaguar is mainly found in south America)

B. B. All of them belong to the cat family. →True (They all belong to cat family)

C. All of their young ones are called kittens. → Not True (Baby Lion,Tiger, Jaguar and Leopard is called "Cub")

D. There is no similarity. → Not True (As there are many similarity)

Hence, option 4) is the correct answer.

Q58. Answer: (b) 1947

The history of the British Raj refers to the period of British rule on the Indian subcontinent between 1858 and 1947. The system of governance was instituted in 1858 when the rule of the East India Company was transferred to the Crown in the person of Queen Victoria (who in 1876 was proclaimed Empress of India).

Q59. Answer: (a) 5% loss

Cost price of 10 kg of rice = Rs. 400 × 10 = Rs. 4000

Cost price of 5 kg of rice = Rs. 2000 and the cost price of the remaining 5 kg of rice = Rs. 2000

Also given that trader got 20% loss for half of the quantity

We know that loss% = (CP - SP)/CP × 100

=> 20 = (2000 - SP)/2000 × 100

=> 200000 - 40000 = 100SP

=> SP = Rs. 1600

Therefore Loss for first half = 2000 - 1600 = Rs. 400

Also given that profit for second half is 10%

=> 10 = (SP - 2000)/2000 × 100

=> 100SP = 20000 + 200000

=> SP = 2200

Profit for second half = 2200 - 2000 = Rs. 200

Therefore Net there is a loss of Rs. 200

Final loss % = (net loss/total cost price × 100) = 200/4000 × 100 = 5%

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Q60. Answer: (a) A

The family tree diagram is shown below:

Hence, Yuvraj is 'nephew' of Deepti.

Q61. Answer: (a) Cytology

The correct answer is option 1 i.e Cytology

• Branch of science that studies cells is called Cytology.

• All living organisms are made up of cells.

• The cell was discovered in 1665.

• The first cells from an organism were observed by Robert Hooke.

Different Branches of Study:

Branch	Study of
Entomology	Insects
Myology	Muscles
Hormonology	Hormones
Mycology	Fungi
Nephrology	Kidney
Paleontology	Fossils
Pedology	Soils
Cardiology	Heart
Dermatology	Skin
Hematology	Blood

Q62. Answer: (b) Vikram Sarabhai

Vikram Ambalal Sarabhai was an Indian scientist and innovator widely regarded as the father of India's space programme. Sarabhai received the Shanti Swarup Bhatnagar Medal in 1962

Q63. Answer: (d) Firewall protects computer from fire.

The correct answer is Firewall protects the computer from fire(which is an odd statement).

• A firewall put simply, is a barrier – a barrier between a secure and trusted internal network and that of an outside network.

• Firewalls can be implemented in both hardware and software, or through a combination of both.

Additional Information

• Following types of Firewalls -

1. Packet-filtering firewall: It checks every packet that passes the firewall and examines the packet as per the set of rules that the user sets up. If the packet gets to pass the test, it's allowed to go through. If the packet fails to pass the test then it is rejected. Packet filters are the most inexpensive variety of firewalls. That is why packet-filtering firewalls are used very commonly.

2. Stateful packet inspection (SPI): It is installed in accordance with simple packet filtering. A firewall having Stateful packet checking looks at packets in clusters instead of doing individually. It maintains the record of all those packets have crossed through the firewall and can create patterns that indicate unauthorized entry.

3. Deep packet inspection (DPI): It is the actual data of the packets is checked so viruses, spam, and other harmful content can be restricted. DPI also enables practices, such as data mining, eavesdropping, and content censorship, which make its way through a controversial subject.

Q64. Answer: (d) Rs. 77, 000

We know that area of the circle = $\pi \times r^2 = \pi \times [(28)/2]^2 = 616$ sq.m

Therefore Cost of leveling circular ground = 616 × 125 = Rs. 77, 000

Q65. Answer: (b) New York

Yankee Stadium is a stadium located in the Concourse section of the Bronx, a borough of New York City. It serves as the home ballpark for the New York Yankees of Major League Baseball.

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Q66. Answer: (c) sec θ

We know that cosec θ is positive in first quadrant

=> cosec (90° - θ) = sec θ

Q67. Answer: (d) Rs. 1,680

Let the cost price be Rs. x

We know that profit % = (Selling price - cost price)/cost price × 100

=> 25 = (2100 - x)/x × 100

=> 25x + 100x = 210000

=> 125x = 210000

=> x = 1680

Therefore Cost price x = Rs. 1,680

Q68. Answer: (a) 5323684

The logic is:

H	I	S	T	O	R	Y
7	3	2	6	8	4	5

C	I	V	I	C	S
1	3	5	3	1	2

Similarly,

V	I	S	I	T	O	R
5	3	2	3	6	8	4

Hence, '5323684' is the correct answer.

Q69. Answer: (a) When you pay for something, look for value.

Here option A is correct as sellers are not cheating the public, people spending money should be logical.

Q70. Answer: (c) Electrical energy into mechanical energy.

- An electric motor is an electrical machine that converts electrical energy into mechanical energy.
- It works because of electromagnetic induction, which is when a voltage is induced by a changing magnetic field.
- That would make the copper coil inside the motor turn around repeatedly inside its permanent magnet. Electric motor thus makes mechanical energy through the interaction between magnetic fields.
- The reverse of this is the conversion of mechanical energy into electrical energy and it is done by an electric generator.

Q71. Answer: (b) Centrifugal Force

- A force, arising from the body's inertia, which appears to act on a body moving in a circular path and is directed away from the centre around which the body is moving.

Note: The force that pushes us to the outside is asked don't confuse with force pusses us in inside.

Q72. Answer: (b) CSIR

The Prime Minister of India, in his capacity as ex - officio President of CSIR, has nominated ONGC Chairman and Managing Director Dinesh K Sarraf as member of the prestigious governing body of Council of Scientific and Industrial Research (CSIR). Sarraf has been nominated to the governing body of CSIR for a period of three years

Q73. Answer: (c) Bharati

Bharati is an Antarctic research station commissioned by India. It is India's third Antarctic research facility and one of two active Indian research stations, alongside Maitri. India's first committed research facility, Dakshin Gangotri, is being used as a supply base.

Q74. Answer: (d) 66.67 kmph

We know that if a man covers a distance d1 km at s1km/hr and then d2 km at s2 km/hr, then the average speed during the whole journey = [s1s2(d1 + d2)]/(s1d2 + s2d1)

s1 = 60kmph, s2 = 80kmph, d1 = 30km, and d2 = 20km.

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=> Average speed = [60 × 80 (30 + 20)]/(60 × 20 + 80 × 30) = 240000/3600 = 66.67 kmph

Q75. Answer: (b) Air rifle shooting

Gagan Narang (born 6 May 1983) is an Indian shooter, in Air rifle shooting, supported by the Olympic Gold Quest. He was the first Indian to qualify for the London Olympics. He won the Bronze Medal in the Men's 10 m Air Rifle Event at the 2012 Summer Olympics in London with a final score of 701.1 on 30 July 2012.

Q76. Answer: (c) 177

Series start with 12 and 23 comes as = 12 × 2 – 1 = 23 Similarly 45 comes as = 23 × 2 – 1 = 4589 comes as 45 × 2 – 1 = 89

Hence the next term is 89 × 2 – 1 = 177.

Q77. Answer: (c) 1975

Microsoft is a multinational computer technology corporation. The history of Microsoft began on April 4, 1975, when it was founded by Bill Gates and Paul Allen in Albuquerque.

Q78. Answer: (c) 66

Here F = 6 (place value of F)

Similarly,

T = 20

H = 8

and E = 5,

Thus THE = 20 + 8 + 5 = 33

Similarly we go for WOMAN,

W = 23

O = 15

M = 13

A = 1

N = 14

and after adding we get WOMAN = 66.

Q79. Answer: (b) 43

× means +

÷ means ×

• means -

• means ÷

22 + 36 – 12 × 6 ÷ 4 is written as 22 – 36 ÷ 12 + 6 × 4 = 22 – 3 + 24 = 43.

Q80. Answer: (d) Gall bladder

The gallbladder is a pear - shaped, hollow structure located under the liver and on the right side of the abdomen. Its primary function is to store and concentrate bile, a yellow - brown digestive enzyme produced by the liver. The gallbladder is part of the biliary tract

Q81. Answer: (a) Babita Kumari

M.R. Poovamma and Babita Kumari have been conferred with prestigious Arjuna Award 2015 for their individual achievements in sports. The award was presented to them by Union Minister of State (MoS) for Youth affairs and Sports Sarbananda Sonowal in New Delhi.

Q82. Answer: (b) Octet

The octet is a unit of digital information in computing and telecommunications that consists of eight bits. The term is often used when the term byte might be ambiguous, as the byte has historically been used for storage units of a variety of sizes.

Q83. Answer: (c) 78

From given data, we get

=> x + y = 19 - - - equation (1)

=> x - y = 7 - - - equation (2)

By adding equation (1) and equation (2), we get

=> 2x = 26

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=> x = 13

Substitute x = 13 in equation (1), we get

=> 13 + y = 19

=> y = 6

Therefore xy = 13 × 6 = 78

Q84. Answer: (c) 30 minutes

Part of the tank filled in one min = 1/20

Part of the tank emptied in one min = 1/60

=> Part of the tank to be filled due to leakage in one min = 1/20 - 1/60 = 2/60 = 1/30

Therefore Tank will be filled in 30 minutes

Q85. Answer: (c) 68

As per the given data,

Let the required mean score be x,

Then 20/100 × 60 + 30/100 × 40 + 50/100 × x = 58

=> 1200 + 1200 + 50x = 5800

=> 2400 + 50x = 5800

=> 50x = 5800 - 2400 = 3400

=> x = 3400/50 = 68

Q86. Answer: (c) 1921 – 1927

The correct answer is 1921-1927

Explanation

• The Sansad Bhawan (Parliament Building) is the house of the Parliament of India, located in New Delhi.

• It was constructed during 1921 - 1927.

• The Indian Parliament building was designed by Sir Edwin Lutyens and Sir Herbert Baker.

• The foundation stone of the Parliament House was laid by the Duke of Connaught in 1921.

• It was inaugurated by the then Governor-General of India, Lord Irwin, after the completion in 1927.

• The shape of the building is based on the Chausath Yogini temple of Morena, Madhya Pradesh.

• The building has a Central Chamber which is surrounded by the semicircular halls that were constructed for the sessions of the Chamber of Princes (now used as the Library Hall), the State Council (now used for the Rajya Sabha), and the Central Legislative Assembly (now used for the Lok Sabha).

• The Parliament House has a hybrid of Hindu, Saracenic, and Roman architectural styles.

Q87. Answer: (b) Deficiency of RBC.

Anemia, also spelled anaemia, is usually defined as a decrease in the total amount of red. These recommendations may also apply to some people with acute bleeding. Erythropoiesis - stimulating ... in those with severe anemia. Anemia is the most common blood disorder, affecting about a third of the global population.

Q88. Answer: (c) 35

Out of 50 kids in a colony,

10 like only basketball,

25 like only football,

10 like both volleyball and football and

5 like only volleyball.

=> Kids who do not like volleyball = Total number of Kids(50) - Kids who like only volleyball(5) - kids who like both volleyball and football(10)

=> Kids who do not like volleyball = 50 - 5 - 10 = 35

Hence, 35 is the correct answer.

Q89. Answer: (b) 7/2

Out of 50 kids in a colony,

10 like only basketball,

25 like only football,

10 like both volleyball and football and

5 like only volleyball.

=> Ratio = Number of kids who play football : Number of kids who like only basketball

=> Number of kids who play football = Kids who play only football + Kids who play both volleyball and football

=> Number of kids who play football = 25 + 10 = 35

=> Ratio = 35 : 10

=> Ratio = 7 : 2

Hence, 7/2 is the correct answer.

Q90. Answer: (b) 40

Out of 50 kids in a colony,

10 like only basketball,

25 like only football,

10 like both volleyball and football and

5 like only volleyball.

=> Number of kids who play only one sports = number of kids who play only baseball + Number of kids who play only football + Number of kids who play only volleyball.

Hence,

=> Number of kids who play only one sports = 10 + 25 + 5 = 40.

Hence, 40 is the correct answer.

Q91. Answer: (c) Brown : Sky

Here colours are given of things, like snow is white, Blood is red, Grass is green, but Sky is not brown, sky is blue.

Hence Brown : Sky is the odd one out.

Q92. Answer: (c) vehicle registration numbers

The National Capital's car commuters came to grips with the binary odd - even policy. On odd days, only cars with number plates that ended with 1, 3, 5, 7 or 9 could ply and on even days the car registration had to end with 2, 4, 6, 8 or 0.

Q93. Answer: (c) C

A. The poor enjoy the luxury of eating out. → False (Clearly given in statement that Over-worked and time-pressed poor also need to eat out. Nothing is said about poor enjoyed it)

B. Eating out is luxury for the poor. → False (Clearly given in statement that Over-worked and time-pressed poor also need to eat out. Nothing is said about poor enjoyed it)

C. Eating out is need-based for the poor also.→ True (It is clearly mentioned in statement)

D. Tax on eating out must be reduced. → False (It should be but nothing is mentioned in statement about tax reduction so we cannot say it)

Hence, option 3) is the correct answer.

Q94. Answer: (a) 1 : 2 : 3

Given that ratio of marks in 3 subjects was x : 2x : 3x

Also given that 5% grace is allowed in each subject

=> Ratio's will become = 5x/100 : 10x/100 : 15x/100 = 5x : 10x : 15x = 1 : 2 : 3

Q95. Answer: (a) 100 km

Let the distance covered by 50kmph be x km

Given that if the speed is increased by 10 kmph, then the distance covered is (x + 20) km

Also given that time is same for both the cases

=> x/50 = (x + 20)/60

=> 50x + 1000 = 60x

=> 1000 = 10x

=> x = 1000/10 = 100 km

Therefore Actual distance covered = 100 km

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Q96. Answer: (b) Nagaland

- The Hornbill festival is a celebration held every year from 1st - 10th December, in Nagaland, Northeast India.
- It is also called as the 'Festival of Festivals.
- It aims to revive, protect, sustain, and promote the richness of the Naga heritage and traditions

Q97. Answer: (a) B

Except Nonagon, all of these have even number of sides.

But in Nonagon has nine sides, which means it has odd number sides.

Hence, Nonagon is the correct answer.

Q98. Answer: (c) 51

We know that a : b : : c : x, then x = bc/a

=> Fourth proportional x = (17 × 27)/9 = 51

Q99. Answer: (c) The amount of money that the Government has to borrow.

The correct answer is The amount of money that the Government has to borrow

- A budget deficit is an indicator of financial health in which expenditures exceed revenue.
- When referring to accrued federal government deficits, the deficits are referred to as the national debt.
- A budget deficit happens when current expenses exceed the amount of income received through standard operations.
- Certain unanticipated events and policies may cause budget deficits.
- Countries can counter budget deficits by raising taxes and cutting spending.

Q100. Answer: (b) INS Vikramaditya

INS Vikramaditya is a modified Kiev - class aircraft carrier which entered into service with the Indian Navy. She has been renamed in honour of Vikramaditya, a legendary emperor of Ujjain, India.

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