RRB NTPC Tier I Official Paper (Held On: 27 Apr 2016 Shift 2) (Previous Year Paper)

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

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Q1. _____is not caused by airborne transmission.

(a) Tuberculosis
(b) Chickenpox
(c) Measles
(d) Hepatitis B

Q2. Read the statements and answer the question based on it.

Statements:

1. Some mammals are extinct and some are critically endangered.
2. All dinosaurs are extinct.
3. Some reptiles are critically endangered and some are already extinct.

Which option logically follows the given statements?

A. All dinosaurs are mammals
B. There are no reptiles that are out of the danger of extinction.
C. No dinosaurs are critically endangered.
D. Some reptiles are dinosaurs who are extinct.

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

Q3. Allergy Screening Blood Test for human beings does not include_____.

(a) RAST
(b) ELISA
(c) IgE
(d) Hemoglobin A1C

Q4. _____is not a tributary of the river Ganges.

(a) Yamuna
(b) Gomti
(c) Kosi
(d) Manas

Q5. Find the number whose 6 times is 6 less than 60.

A. 6
B. 7
C. 8
D. 9

(a) B
(b) D

(c) A
(d) C

Q6. The area of a rectangle is 448 sq.m. If the length is more than the breadth by 12%, find the breadth.

A. 14 m
B. 16 m
C. 18 m
D. 20 m

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

Q7. Mirages are formed primarily due to _____of light.

(a) Reflection
(b) Diffusion
(c) Total Internal Reflection
(d) Scattering

Q8. Resolution : Determination : : Consensus : _____.

A. Difference
B. Unanimity
C. Decide
D. outcome

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

Directions

Direction: The following table represents the transport preference of a certain number of people in three towns V, K and S. Consider the information and answer the following question based on it.

	Cycle	Taxi	Rickshaw	Bus	Own car	Train
Town V	150	155	75	100	125	145
Town K	115	100	100	100	175	110
Town S	150	150	125	100	100	155

Q9. What is the most preferred mode of transport?

A. Train
B. Bus
C. Cycle
D. Taxi

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

Q10. The number of people wanting to travel by train and bus is how much more or less than those wanting to travel by taxi and own car?

A. 95 more
B. 95 less

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C. 20 more

D. 20 less

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

Q11. The different between people who prefer taxi to own car is?

A. 5

B. 10

C. 15

D. 20

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

Q12. Salt Satyagraha in Tamil Nadu was led by_____

(a) C. Rajagopalachari
(b) K. Kamaraj
(c) Potti Sriramulu
(d) C. Subramaniam

Q13. An assertion (A) and a reason (R) are given below.

Assertion (A): Tungsten filament is used for making light bulbs.

Reason (R): Tungsten has a high melting point.

Choose the correct option.

A. Both A and R are true and R is the correct explanation of A

B. Both A and R are true, but R is not the correct explanation of A.

C. A is true, but R is false

D. A is false, but R is true

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

Q14. Esc key in a windows keyboard is not used to

(a) Close a dialog - box
(b) Run a selected command
(c) Cancel a command
(d) Close a selected drop down list

Q15. Rs. 3,105 is due to the divided among K, L and M in the proportion of 2/3 : ¾ : ½ respectively. How much will L get?

A. Rs. 1,080

B. Rs. 810

C. Rs. 1,215

D. Rs. 970

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

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Q16. If ‘due to you’ is coded as ‘bd ba ca’, ‘he is due’ as ‘xe ba le’ and ‘is due to’ as ‘ba xe ca’, then ‘you’ = ?

A. ba
B. ca
C. xe
D. bd

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

Q17. If $a – b = 5$ and $a^2 + b^2 = 97$, ab = ?

A. 48
B. 32
C. 36
D. 72

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

Q18. If CAR = 22 and BUS = 42, then TRAM = ?

A. 62
B. 52
C. 72
D. 42

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

Q19. N invested Rs. 20,000 in a business. Six months later, C joined him with Rs. 10,000. At the end of the year, the profit was Rs. 10,000. What should be the share of N?

A. Rs. 2,000
B. Rs. 4,000
C. Rs. 6,000
D. Rs. 8,000

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

Q20. If WORK = 7935, ROCK = 3587 AND WART = 1945, which digit stands for T?

A. Either 9 or 1
B. Either 8 or 1
C. Either 4 or 5
D. Either 1 or 4

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

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Q21. Yerwada Jail is in

(a) Mumbai
(b) Pune
(c) Goa
(d) Nagpur

Q22. Which pair is not similar to the other three?

A. Bare : Dressed
B. Baffled : Informed
C. Counterfeit : Fake
D. Degrade : Exalt

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

Q23. A grant for estimated expenditure made by Lok Sabha for part of a financial year pending voting is called

(a) Cut motion
(b) Appropriation
(c) Prorogation
(d) Vote on account

Q24. _____is the capital of Mizoram.

(a) Shillong
(b) Aizawl
(c) Kavaratti
(d) Imphal

Q25. Statements followed by some conclusions are given below

Statements:

1. We don't have the will to punish the guilty unless he is weak and poor.

2.The rich and well-connected get away with every wrong doing.

Conclusions:

I. The rich people are able to escape punishment for wrong doing.

II. If we will, justice will be same for all.

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

A. Only conclusion I follows
B. Only conclusion II follows
C. Both I and II follow
D. Neither I nor II follows

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

Q26. India shares land border with _____ countries.

(a) One
(b) Two
(c) Three
(d) Seven

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Q27. Find the LCM of 12, 16, 20 and 24.

A. 180
B. 220
C. 240
D. 260

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

Q28. Which of the following does not represent the things that make a ‘Smart City’, under the smart city campaign?

(a) Affordable housing, especially for the poor.
(b) Adequate water supply.
(c) Free health and education.
(d) Sustainable environment.

Q29. A box of 20 items was bought for Rs. 6,400 after a discount of 20%. Find the M.P of each item.

A. Rs. 300
B. Rs. 350
C. Rs. 400
D. Rs. 450

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

Q30. Error : Blunder : : _____ : Excellent

A. Acceptable
B. Excel
C. Unsatisfactory
D. Splendid

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

Q31. In human body, vertebrae are part of_____

(a) Intestine
(b) Liver
(c) Spinal cord
(d) Brain

Q32. Find the missing (?) in the series.

AB, CE, FI, ?, OT

A. JM
B. GK
C. HO
D. JN

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

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Q33. _____ are twin prime number.

A. (4, 9)

B. (2, 3)

C. (4, 6)

D. (3, 5)

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

Q34. X does 25% of a work in 20 days. Y joins X and they together finish the remaining work in 15 days. Y alone can do the whole work in _____ days.

A. 30 days

B. 251/2 days

C. 262/3 days

D. 261/3 days

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

Q35. $(4x - 7)^2$ = ?

A. $4x^2 – 56x + 49$

B. $4x^2– 14x + 49$

C. $16x^2 + 14x + 49$

D. $16x^2 – 56x + 49$

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

Q36. Fire : Burn : : Water : ?

A. River

B. H2o

C. Flood

D. Dam

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

Q37. _____is not related to gases.

(a) Boyle’s Law
(b) Joule’s Law
(c) Avogadro’s Law
(d) Charles’s law

Q38. The maturity value of a certain sum after two years at 20% p.a. interest compounded annually is Rs. 14,400/-. Find the principal amount.

A. Rs. 9,000

B. Rs. 9,500

C. Rs. 10,000

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D. Rs. 10,500

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

Q39. The smallest of the fractions among 5/8, 3/4, 13/16, 7/12.

A. 5/8
B. 3/4
C. 13/16
D. 7/12

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

Q40. If angles M and N measures 60° and 30° respectively, (sin M) × (cot N) = ?

A. 1/2
B. √3/2
C. 3/2
D. 0

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

Q41. The official journal of the Committee on Space Research (COSPAR) is

(a) Astrophysics and Space
(b) Space Science Reviews
(c) Advances in Space Research
(d) Cosmic Research

Q42. The diagonals of 2 squares M and N are in the ratio 2 : 1. The ratio of their areas is

A. 1 : 2
B. 2 : 1
C. 1 : 4
D. 4 : 1

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

Q43. Which of the following is not a renewable source of energy?

(a) Solar
(b) Wind
(c) Ocean waves
(d) Coal

Q44. A serial port can

(a) Only transfer information from a hard drive.
(b) Only transfer information to a hard drive.
(c) Transfer information both to and from a hard drive.
(d) Neither transfer information from not to a hard drive.

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Q45. Find the greatest number which on dividing 391 and 318 leaves remainders 7 and 6 respectively.

A. 20

B. 23

C. 24

D. 32

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

Q46. Find the odd one out in relation to using ATM and net-banking facilities.

A. Don't share your ATM card.

B. Don't share your PIN.

C. Don't change your PIN at regular intervals.

D. Don't share your login ID and password.

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

Q47. Read the following paragraph and answer the question based on it.

The ongoing progress in technologies continue to throw up fresh risks related to data privacy and security. There can be no true progress in technologies without such risks. The IT industries need to be equipped to handle such risks.

Which option relates best to the above statement?

A. True progress in technology involves some risks too.

B. IT industries are not equipped to handle such threats.

C. Progress must be free of risks and threats.

D. Data privacy and security is not important to the IT industries.

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

Q48. The instrument used to examine a person’s digestive tract is called_____.

(a) Oscilloscope
(b) Microscope
(c) Endoscope
(d) Radiograph

Q49. _____is not an example of refraction of light.

(a) Twinkling effect of stars
(b) Mirages
(c) Lateral inversion
(d) Bending of light while passing through a medium

Q50. X and Y are parents of four married sons, one married daughter and one unmarried daughter living in a joint family. Two of the sons have two daughters and one son each. The other two have two sons and one daughter each. How many male members are there in the family?

A. 9

B. 10

C. 11

D. 12

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

Q51. The cost of 15 kg of groundnuts and 4 kg of cashews is Rs. 7,000. The cost of 10 kg of cashews is equal to 25 kg of groundnuts. Find the cost of groundnut per kg.

A. Rs. 320
B. Rs. 700
C. Rs. 540
D. Rs. 280

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

Q52. If '+' means 'brother of', 'x' means 'mother of', '-' means 'father of' and '÷' means 'son of', then which of the following means V is the nephew of W?

A. V + U – W
B. V ÷ U + W
C. V × W – U
D. V ÷ W - U

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

Q53. The average weight of 25 bags is 55 kg. the weight of one bag was misread as 65 instead of 56. Find the correct mean value.

A. 55.25
B. 55.36
C. 54.64
D. 55.65

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

Q54. If w : 0.80 :: 9 : 6, w = ?

A. 2.5
B. 1.1
C. 3.3
D. 1.2

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

Q55. Which Indian freedom fighter unfurled the flag known as Saptarishi at Stuttgart in Germany in 1907?

(a) Madam Cama
(b) Mahatma Gandhi
(c) Dadabhai Naoroji
(d) Lokmanya Tilak

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Q56. Which one is not the key objective of the Jan Aushadhi Campaign?

(a) Make quality the hallmark of medicine availability.
(b) Redefine the unit cost of treatment per person.
(c) Develop a model which can be replicated only in India.
(d) To be adopted by the Private Sector also.

Q57. _____ was the Indian captain for 2016 ICC Women's World Cup Twenty20 cricket match.

A. Rajeshwari Gayakwad
B. Harmanpreet Kaur
C. Deepti Sharma
D. Mithali Raj

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

Directions

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

Out of 60 people in a colony, 10 speak only Bengali, 5 speak only Assamese, 10 speak both Hindi and Odia, 12 speak both Marathi and Hindi, 13 speak English, Tamil and Marathi, 5 speak both Assamese and Hindi and the remaining speak both Bengali and Hindi.

Q58. In all, how many people speak Hindi?

A. 22
B. 27
C. 32
D. 45

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

Q59. How many people speak more than one language?

A. 15
B. 45
C. 50
D. 55

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

Q60. The ratio of people who speak Bengali to those who speak Marathi is

A. 15/32
B. ½
C. ¾
D. 3/5

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

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Q61. In a farm, there are goats and peacocks. If the number of heads are 60 and the number of feet are 170, then the number of goats = ?

A. 18
B. 20
C. 23
D. 25

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

Q62. A train runs at 80 kmph for the first 40 km and the next 30 km at 60 kmph. Find the average speed.

A. 62 kmph
B. 64 kmph
C. 65 kmph
D. 70 kmph

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

Q63. Objects float on water based on _____.

(a) Newton's third law of motion
(b) Hooke's law
(c) Faraday's law
(d) Archimedes principle

Directions

Direction: E, F, G, H and K visit a hospital on week days. Each one of them is a physician, surgeon, dentist, cardiologist, nephrologist but in the random order. Each visits the hospital only one day in the week and attends to their profession only. Consider the following information and answer the question based on it.

1. The Physician visits office every Monday.
2. E is the cardiologist who comes neither on Tuesday nor on Thursday.
3. K is a surgeon and G is not the Physician.
4. The person who visits the office on Thursday is not a nephrologist.
5. H works on Tuesday and K works on the following day.

Q64. Who is the nephrologist?

A. E
B. F
C. G
D. H

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

Q65. Who is the physician?

A. E
B. F
C. G
D. H

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

Q66. The cardiologist visits the office on

A. Tuesday
B. Wednesday
C. Thursday
D. Friday

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

Q67. A tap can fill a tank in 50 minutes. If the tank has a leakage which alone is capable of emptying the tank in 2½ hours, the tank will now be filled in _____.

A. 1 hour
B. 1 hour 15 mins
C. 1 hour 25 mins
D. 1 hour 30 mins

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

Q68. How many full member teams were in ICC Cricket World Cup T20 - 2016 other than the host country?

A. Seven
B. Eight
C. Nine
D. Ten

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

Q69. Select the option that is related to the third letter-cluster in the same way as the second letter-cluster is related to the first letter-cluster.

BROWN : BNORW : : SOUND : ?

A. SNOUD
B. OSUDN
C. SUDNO
D. DNOSU

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

Q70. _____ is known as a disease mostly caused by occupational health hazards.

(a) Syphilis
(b) Cirrhosis
(c) Silicosis
(d) Parkinson’s

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Q71. The speed of light in vacuum is estimated as _____ meters/second.

(a) 3.00 × 10^8
(b) 3.10 × 10^8
(c) 3.12 × 10^8
(d) 3.15 × 10^8

Q72. Find the missing (?) in the series.

3, 5, 9, ?, 33, 65…….

A. 23
B. 21
C. 17
D. 15

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

Q73. (0.2 × 0.2 × 0.2) (0.06 × 0.06 × 0.06) ÷ (0.12 × 0.12 × 0.12) = ?

A. 0.008
B. 0.001
C. 0.002
D. 0.006

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

Q74. Salarjung Museum is located in _____.

(a) Kolkata
(b) Ahmadabad
(c) Delhi
(d) Hyderabad

Q75. Bollywood actress Priyanka Chopra won the Favourite Actress award at the People's Choice awards 2016, for her leading role in the American TV thriller series _____.

A. Secrets and lies
B. The Middle
C. Quantico
D. Mistresses

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

Q76. Find the range of the data 9, 5, 9, 3, 4, 7, 8, 4, 8, 9, 5, 9.

A. 3
B. 5
C. 6
D. 4

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

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(d) D

Q77. Name the first civilian president of Myanmar.

A. Htin Kyaw

B. Myint Swe

C. Henry Van Thio

D. Thein Sein

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

Q78. _____ is used in yellow lamp street lights.

(a) Neon
(b) Nitrogen
(c) Phosphorous
(d) Sodium

Q79. Curd contains mainly ____ acid.

(a) Benzoic
(b) Fumaric
(c) Lactic
(d) Malic

Q80. The cost price of 5 kg of wheat and 10 kg of sugar were at Rs. 70 and Rs. 80 per kg respectively. On selling, he gained 10% on wheat and 20% on sugar. What was the total sale price?

A. Rs. 1,375

B. Rs. 1,345

C. Rs. 1,400

D. Rs. 1,350

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

Q81. The official language of Goa is _____.

(a) English
(b) Portuguese
(c) Konkani
(d) Marathi

Q82. M borrowed some money for 1 year at certain simple interest. But the interest rate was increased to 2% which amounted to Rs. 120. Find the principal amount.

A. Rs. 4,000

B. Rs. 5,000

C. Rs. 6,000

D. Rs. 7,000

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

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Q83. If the radius (r) of a circle is increased by 'x' units, what is the number of units by which the circumference of the circle is increased?

A. π

B. 2π

C. 2πr

D. 2πx

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

Q84. ISS stands for

(a) International Space Station
(b) International Space System
(c) Indian Space Studies
(d) Inter-Space Spectroscopy

Q85. _____ is used in periscope.

(a) Plane mirror
(b) Prism
(c) Concave lens
(d) Convex lens

Q86. Statement followed by some conclusions are given below.

Statement:

The search team believes that the plane debris recovered in 2016, near Mozambique was highly likely to be from MH370- Malaysian aircraft which disappeared after take-off in 2014.

Conclusions:

I. The debris found near Mozambique definitely belonged to MH370 aircraft.

II. The search team is mistaken about the findings.

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

A. Only conclusion I follows

B. Only conclusion II follows

C. Both I and II follow

Neither I nor II follows

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

Q87. Most of the _____ are formed by sand and silt deposited by rivers and sea waves.

(a) Laterite and lateritic soils
(b) Alluvial soils
(c) Peaty and Marshy soils
(d) Saline and alkaline soils

Q88. X is the brother of Y. Z is the wife of Y. F is the father of X. E is son of Z. How is E related to F?

A. Grandson

B. Nephew

C. Brother

D. Son

(a) C

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

Q89. If LIGER is coded as GIRLE, then TEPAL will be coded as

A. PETAL
B. PLATE
C. PELTA
D. PLEAT

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

Q90. If sinθ = 15/17, then cot θ = ?

A. 8/17
B. 15/8
C. 8/15
D. 17/8

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

Q91. There are 3 numbers. The 2^(nd) number is 3 times the 1^(st). the 3^(rd) is twice the 2^(nd). If their average is 70, find the smallest of the 3 numbers.

A. 18
B. 19
C. 20
D. 21

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

Q92. The maximum interval between two sessions of state assembly can be ____.

(a) 3 months
(b) 6 months
(c) 9 months
(d) 12 months

Q93. If A means '-', C means '+', B means '÷', E means '×' then the value of 6 C 78 B 3 A 4 E 6 = ?

A. 4
B. 6
C. 8
D. 10

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

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Q94. The distance between the Sun and Earth is estimated to be

(a) 15.96 × 10^7 km
(b) 14.96 × 10^7 km
(c) 12.96 × 10^7 km
(d) 11.96 × 10^7 km

Q95. Which of the following is not true in regard to the exchange rate of Indian Rupee ?

(a) Mainly, its price is in terms of US Dollar.
(b) It is decided by Reserve Bank of India.
(c) It is published by Reserve bank of India.
(d) It is decided by market forces.

Q96. The age difference between M and R is the same as that between P and M. M is elder to P but younger to R. If the sum of the ages of R and P is 66, how old is M?

A. 28
B. 30
C. 33
D. 36

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

Q97. Rearrange the jumbled letters to make a meaningful word and then select the one which is different.

A. OLEMN
B. PEALP
C. OGREAN
D. OTTOPA

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

Q98. Which one of the following names is associated with golf?

(a) Gurmeet Singh
(b) H.S. Prannoy
(c) S.S.P. Chawrasia
(d) Chetan Anand

Q99. A man starts walking at 6.30 am. and wants to cover a distance of 30 km. His initial speed is 6 kmph and after covering three-fifth distance, he reduces his speed by 2 kmph. At what time will he complete his walk?

A. 11.00 am
B. 12.30 pm
C. 11.30 pm
D. 12.00 pm

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

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Q100. Rajaji National Park is in _____.

(a) Tamil Nadu
(b) Uttarakhand
(c) Karnataka
(d) Kerala

ANSWER KEY

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

SOLUTIONS

Q1. Answer: (d) Hepatitis B

Airborne diseases include any that are caused and transmitted through the air. Anthrax (inhalational), Chickenpox, Influenza, Measles, Smallpox, Cryptococcosis, and Tuberculosis are examples. Hepatitis B infection is caused by the hepatitis B virus (HBV). The virus is passed from person to person through blood, semen or other body fluids.

Q2. Answer: (b) C

A. All dinosaurs are mammals → False

None of the statements gives any information that justifies the above given conclusion.

B. There are no reptiles that are out of the danger of extinction. → False

None of the statements gives any information that justifies the above given conclusion.

C. No dinosaurs are critically endangered. → True

As, all dinosaurs are extinct.

D.Some reptiles are dinosaurs who are extinct. → False

None of the statements gives any information that justifies the above given conclusion.

Hence, only conclusion 'C' follows.

Q3. Answer: (d) Hemoglobin A1C

Key Points

• A radioallergosorbent test (RAST) is a blood test using a radioimmunoassay test to detect specific IgE antibodies, to determine the substances a subject is allergic to.

• ELISA (enzyme-linked immunosorbent assay) is a plate-based assay technique designed for detecting and quantifying substances such as peptides, proteins, antibodies, and hormones. Other names, such as enzyme immunoassay (EIA), are also used to describe the same technology.

• Immunoglobulin E (IgE) are antibodies produced by the immune system. If you have an allergy, your immune system overreacts to an allergen by producing antibodies called Immunoglobulin E (IgE).

• The Hemoglobin A1C test is a blood test that provides information about a person's average levels of blood glucose, also called blood sugar, over the past 3 months. The A1Ctest is based on the attachment of glucose to hemoglobin, the protein in red blood cells that carries oxygen.

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Q4. Answer: (d) Manas

Major left - bank tributaries include Gomti (Gumti), Ghaghara (Gogra), Gandaki (Gandak), and Kosi (Kusi); major right - bank tributaries include Yamuna (Jumna), Son, Punpun and Damodar.

Q5. Answer: (b) D

Let the number be x

According to the question

=> 60 – 6x = 6

=> 6x = 60 – 6

=> 6x = 54

=> x = 54/6

=> x = 9

The required number is 9.

Q6. Answer: (c) D

Let the breadth of the rectangle be x m

Length of the rectangle = x × 112/100 = 1.12x

According to the question

Area of rectangle = length × breadth

=> x × 1.12x = 448

=> x^2 = 448/1.12

=> x^2 = 400

=> x = √400

=> x = 20

The breadth of the rectangle is 20 m.

Q7. Answer: (c) Total Internal Reflection

The correct answer is Total Internal Reflection,

Explanation:

• The mirage is caused by the total internal reflection of light at layers of air of different densities.

• In a desert, the sand is very hot during day time and a result the layer of air in contact with it gets heated up and becomes lighter. The lighter air rises up and the denser air from above comes down.

• As a result, the successive upper layers are denser than those below them. A ray of light coming from a distant object, like the top a tree, gets refracted from a denser to a rarer medium.

• Consequently, the refracted ray bends away from the normal until, at a particular layer, the light is incident at an angle greater than the critical angle.

• At this stage, the incident ray suffers total internal reflection and is reflected upwards.

• When this reflected beam of light enters the eyes of the observer, it appears as if an inverted image of the tree is seen and the sand looks like a pool of water.

So, Mirage is an example of total internal reflection which occurs due to atmospheric refraction.

Q8. Answer: (d) B

The relation is:

Resolution - a firm decision to do or not to do something; the quality of being determined or resolute.

Determination - having made a firm decision and being resolved not to change it.

Resolution : Determination → They are synonyms of each other.

Similarly,

Consensus – a general agreement.

A. Difference - a point or way in which people or things are dissimilar.

B. Unanimity - agreement by all people involved; consensus.

C. Decide - come or bring to a resolution in the mind as a result of consideration.

D. Outcome - the way a thing turns out; a consequence.

Consensus and Unanimity are synonyms of each other.

Hence, ‘unanimity’ is the correct answer.

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Q9. Answer: (c) C

Total number people preferred train = 145 + 110 + 155 = 410

Total number people preferred bus = 100 + 100 + 100 = 300

Total number people preferred cycle = 150 + 115 + 150 = 415

Total number people preferred taxi = 155 + 100 + 150 = 405

Cycle is the most preferred mode of transport.

Q10. Answer: (a) B

Number of people wanting to travel by train and bus = 145 + 110 + 155 + 100 + 100 + 100 = 710

Solution: Number of people wanting to travel by Taxi and own car = 155 + 100 + 150 + 125 + 175 + 100 = 805

Required difference = 805 – 710 = 95

Q11. Answer: (d) A

Total number of persons who prefer taxi = 155 + 100 + 150 = 405

Total number of persons who prefer own car = 125 + 175 + 100 = 400

Required difference = 405 – 400 = 5

Q12. Answer: (a) C. Rajagopalachari

C. Rajagopalachari, a close associate of Gandhi during 1930, led the Salt Satyagraha from Tiruchi to Vedaranyam in Tamil Nadu, which had close to 150 volunteers, most of whom belonged to the Indian National Congress.

Q13. Answer: (b) A

Assertion (A): Tungsten filament is used for making light bulbs. → True

Reason (R): Tungsten has a high melting point. → True

Tungsten is used as the filament in incandescent light bulbs because it has the highest melting point of any metal (greater than 3400 deg. Celsius) and the higher the temperature, the greater the efficiency and whiter the light.

Hence, both A and R are true and R is the correct explanation of A.

Q14. Answer: (b) Run a selected command

Stop a browser from loading web page if it is taking too long.

Close a dialog box, popup window, or menu.

Used as a shortcut key. For example, Ctrl+Esc opens the Windows Start Menu.

In games the Esc key often shows the game menu.

Close or resize a full screen window.

Cancel a command.

Q15. Answer: (c) C

Share ratio of K, L and M = 2/3 : 3/4 : 1/2 = 24/3 : 36/4 : 12/2 = 8 : 9 : 6

=> 8 + 9 + 6 = 23 unit

=> 23 unit = 3105/23

=> 1 unit = 3105/23 = 135

=> 9 unit = 135 × 9 = 1215

Profit share of L is Rs. 1215

Q16. Answer: (b) D

According to given Information:

Hence, ‘bd’ is the code of ‘you’.

Q17. Answer: (b) C

As we know,

=> $(a - b)^2 = a^2 + b^2 - 2ab$

=> $5^2 = 97 - 2ab$

=> 2ab = 97 – 25

=> ab = 72/2

=> ab = 36

Q18. Answer: (c) B

The logic is:

Similarly,

Hence, '52' is the correct answer.

Q19. Answer: (d) D

Total money at the end of the year invested by N = 12 × 20,000 = 2,40,000

Total money at the end of the year invested by C = 6 × 10,000 = 60,000

Ratio of profit share N to C = 2,40,000 : 60,000 = 4 : 1

Ratio of profit share N to C = 4x : x

=> 4x + x = 10,000

=> 5x = 10,000

=> x = 10,000/5

=> x = 2,000

Profit share of N = 4 × 2 = 8

Q20. Answer: (d) D

The code for each letter is shown below:

T is coded as either '1' or '4'.

Hence, 'either 1 or 4' is the correct answer.

Q21. Answer: (b) Pune

Yerwada Central Jail is a noted high - security jail in Yerwada, Pune, in Maharashtra. This is the largest jail in the state of Maharashtra, and also one of the largest prisons in South Asia, housing over 3, 600 prisoners (2005) spread over various barracks and security zones, besides an open jail just outside its premises. Many well - known freedom fighters individuals including Mahatma Gandhi have been jailed here.

Q22. Answer: (c) C

A. Bare : Dressed → They are antonyms of each other.

Bare - (of a person or part of the body) not clothed or covered.

Dressed - put on one's clothes.

B. Baffled : Informed → They are antonyms of each other.

Baffled - totally bewilder or perplex.

Informed - having or showing knowledge of a subject or situation.

C. Counterfeit : Fake → They are synonyms of each other.

Counterfeit - a fraudulent imitation of something else.

Fake - not genuine; imitation or counterfeit.

D. Degrade : Exalt → They are antonyms of each other.

Degrade – treat or regard (someone) with contempt or disrespect.

Exalt - think or speak very highly of (someone or something).

Hence, 'Counterfeit : Fake' is the odd one out.

Q23. Answer: (d) Vote on account

A 'Vote on Account' deals only with the expenditure side of the government's budget, an Interim Budget is a complete set of accounts, including both expenditure and receipts.

Q24. Answer: (b) Aizawl

Mizoram is one of the states of Northeast India, with Aizawl as its capital city. With a resident population of 293, 416, it is the largest city in the state. It is also the centre of administration containing all the important government offices, state assembly house and civil secretariat.

Q25. Answer: (a) C

I. The rich people are able to escape punishment for wrong doing. → True

As, the rich and well-connected get away with every wrong doing.

II. If we will, justice will be same for all. → True

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As, we don't have the will to punish the guilty unless he is weak and poor.
Hence, both the conclusion follows.

Q26. Answer: (d) Seven

India share land border with 7 countries.
Key Points
• India shares borders with several countries, including land and maritime borders:
• Land borders
• India shares land borders with seven countries:
• Northwest: Pakistan and Afghanistan
• North: China, Bhutan, and Nepal
• East: Myanmar and Bangladesh
• Length of the border (in Km)
• Bangladesh 4,096.7
• China 3,488
• Pakistan 3,323
• Nepal 1,751
• Myanmar 1,643
• Bhutan 699
• Afghanistan 106
• Maritime borders
• India shares maritime borders with several countries, including:
• Sri Lanka: Shares a maritime border through Ram Setu
• Maldives: Shares a maritime border with India
• Andaman and Nicobar Islands: Shares a maritime border with Thai land, Myanmar, and Indonesia

Q27. Answer: (d) C

LCM of 12, 16, 20 and 24 is = 2 × 2 × 2 × 2 × 3 × 5 = 240

Q28. Answer: (c) Free health and education.

• Promoting mixed land use in area based developments
• Housing and inclusiveness
• Creating walkable localities
• Preserving and developing open spaces
• Promoting a variety of transport options
• Making governance citizen - friendly and cost effective
• Giving an identity to the city
• Applying Smart Solutions to infrastructure and services in area

Q29. Answer: (d) C

SP of the 20 items = Rs. 6400
MP of the 20 items = 6400 × (100/80) = Rs. 8000
MP of the 1 item = 8000/20 = Rs. 400

Q30. Answer: (d) D

The relation is:
Error : Blunder → These two words are synonyms of each other.
Error - the state or condition of being wrong in conduct or judgement.
Blunder - a stupid or careless mistake.
Similarly,
Excellent - extremely good; outstanding.
A. Acceptable - able to be agreed on; suitable.
B. Excel - be exceptionally good at or proficient in an activity or subject.
C. Unsatisfactory - not satisfactory; not good enough.

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D. Splendid - excellent; very good.

Splendid and Excellent are synonyms of each other.

Hence, ‘splendid’ is the correct answer.

Q31. Answer: (c) Spinal cord

Vertebrae are the 33 individual bones that interlock with each other to form the spinal column.

Q32. Answer: (a) D

The logic is:

Hence, ‘JN’ is the correct answer.

Q33. Answer: (d) D

Prime number: The number which is divisible by 1 and itself is called prime number.

The twin prime number is which numbers are the gap between 2.

The twin prime number is (3, 5).

Q34. Answer: (d) C

25% of the work, X complete in = 20 days

100% of the work, X complete in = 20/25 × 100 = 80 days

75% of the work, X and Y complete in = 15 days

100% of the work, X and Y complete in = 15/75 × 100 = 20 days

Total work = 80

Efficiency of Y = 4 – 1 = 3

Y alone can complete the whole work in = 80/3 = 262/3 days

Q35. Answer: (d) D

=> $(4x – 7)^2$

=> $(4x)^2 + 7^2 – 2 \times 4x \times 7$

=> $16x^2 + 49 – 56x$

As we know,

=> $(x – y)^2 = (x^2 + y^2 – 2xy)$

Q36. Answer: (d) C

The relation is:

Fire : Burn → Fire refers to a destructive burning of something.

Similarly,

Water : ? → A destructive overflow of water causes flood.

Hence, ‘flood’ is the correct answer.

Q37. Answer: (b) Joule’s Law

Boyle's law states that at constant temperature for a fixed mass, the absolute pressure and the volume of a gas are inversely proportional.

Joule's first law is a physical law expressing the relationship between the heat generated and current flowing through a conductor.

Avogadro's law is an experimental gas law relating volume of a gas to the amount of substance of gas present.

Charles' law is an experimental gas law that describes how gases tend to expand when heated.

Q38. Answer: (b) C

A = 14400, r = 20% and time = 2 years

As we know,

A = P (1 + r/100)^t

=> $14400 = P (1 + 20/100)^2$

=> $14400 = P \times 6/5 \times 6/5$

=> $P = 14400 \times 5/6 \times 5/6$

=> P = 10,000

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Q39. Answer: (d) D

5/8, 3/4, 13/16, 7/12

5/8 = 5/8 × 6/6 = 30/48

3/4 = 3/4 × 12/12 = 36/48

13/16 = 13/16 × 3/3 = 39/48

7/12 = 7/12 × 4/4 = 28/48

Smallest fractions among is 28/48 (7/12).

Q40. Answer: (d) C

Concept used:

Calculation:

sin M × cot N

=> sin 60 × cot 30

=> √3/2 × √3

=> 3/2

Q41. Answer: (c) Advances in Space Research

The COSPAR publication Advances in Space Research (ASR) is an open journal covering all areas of space research including: space studies of the Earth's surface, meteorology, climate, the Earth - Moon system, planets and small bodies of the solar system, upper atmospheres, ionospheres and magnetospheres of the Earth and planets including reference atmospheres, space plasmas in the solar system, astrophysics from space, materials sciences in space, fundamental physics in space, space debris, space weather, Earth observations of space phenomena, etc.

Q42. Answer: (c) D

As we know,

Area of square = (diagonal)²/2

Ratio of diagonal of two square = 2 : 1

Ratio of area of two square = (2)²/2 : 1²/2 = 4/2 : 1/2 = 4 : 1

Q43. Answer: (d) Coal

Renewable energy is energy generated from natural resources - such as sunlight, wind, rain, tides and geothermal heat - which are renewable (naturally replenished). Renewable energy technologies range from solar power, wind power, hydroelectricity/micro hydro, biomass and biofuels for transportation.

Q44. Answer: (c) Transfer information both to and from a hard drive.

A serial port is a serial communication interface through which information transfers in or out one bit at a time (in contrast to a parallel port). Throughout most of the history of personal computers, data was transferred through serial ports to devices such as modems, terminals and various peripherals.

Q45. Answer: (a) C

391 – 7 = 384

=> 318 – 6 = 312

HCF of 312 and 384 is = 24.

Q46. Answer: (c) C

The correct answer is Don't change your PIN at regular intervals

Customers should observe the following Do's to keep their transactions at ATM safe and secure

• Do change your PIN at regular intervals.

• The consumer should conduct the ATM transaction in complete privacy

• Only one cardholder should enter and access the ATM kiosk at a time.

Customers should observe the following Dont's to keep their transactions at ATM safe and secure

• The cardholder should not lend his/her ATM card to anyone.

• The cardholder should not write the PIN on the card

• The cardholder should not share PIN with anyone.

• The cardholder should not let anyone see the PIN while it is being entered at the ATM

• The cardholder should not share your login ID and password.

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Q47. Answer: (a) A

A.True progress in technology involves some risks too. → True

As, the ongoing progress in technologies continue to throw up fresh risks related to data privacy and security.

B. IT industries are not equipped to handle such threats. → False

As, the IT industries need to be equipped to handle such risks.

C. Progress must be free of risks and threats. → False

As, there can be no true progress in technologies without such risks

D. Data privacy and security is not important to the IT industries. → False

It cannot be concluded as there is no data given related to the above given conclusion.

Hence, only conclusion A follows.

Q48. Answer: (c) Endoscope

Endoscopy means looking inside and typically refers to looking inside the body for medical reasons using an endoscope, an instrument used to examine the interior of a hollow organ or cavity of the body.

Q49. Answer: (c) Lateral inversion

Bending of the sun's rays as they enter raindrops, forming a rainbow, occurrence of mirage effect in deserts in summer, twinkling of star - light reaching to us has gone several refraction because of mediums, sparkling of diamond etc are examples of refraction of light.

Q50. Answer: (b) D

X and Y are parents of four married sons, one married daughter and one unmarried daughter living in a joint family.

Among X and Y one is male.

Number of male = 1

4 married sons and 1 married daughter.

Number of male = 5 (4 Son, 1 Son-in-law)

Two of the sons have two daughters and one son each.

Number of male = 2 (2 grandsons)

The other two have two sons and one daughter each.

Number of male = 4 (4 grandsons)

Total number of male members in the family = (1 + 5 + 2 + 4) = 12

Hence, ‘12’ is the correct answer.

Mistake Points

• In blood relation problems, sons-in-law and daughters-in-law are considered as members of the family.

• Please note that this rule is also followed in exams.

Q51. Answer: (c) D

Let the cost of 1 kg cashews and 1 kg groundnuts is Rs. x and Rs. y respectively.

4x + 15y = 7000 ...1)

According to the question

=> 10x = 25y

=> 2x = 5y

=> 4x = 10y

From equation (1)

=> 10y + 15y = 7000

=> 25y = 7000

=> y = 7000/25

=> y = Rs. 280

Cost of 1 kg groundnuts is Rs. 280.

Q52. Answer: (a) B

Symbol	•	×	•	÷
Meaning	brother	mother	father	son

A. V + U – W → V is brother of U, U is father of W.

V is uncle of W.

B. V ÷ U + W → V is son of U, U is brother of W.

Vis the nephew of W.

C. V × W – U → V is mother of W, W is father of U.

V is mother of W.

D. V ÷ W – U → V is son of W, W is father of U.

V is son of W.

Hence, 'V ÷ U + W' is the correct answer.

Q53. Answer: (b) C

Average weight of 25 bags = 55

Sum of weight of 25 bags = 55 × 25 = 1375

Correct sum of 25 bags = 1375 – 65 + 56 = 1366

Correct average of 25 bags = 1366/25 = 54.64

Q54. Answer: (d) D

w : 0.80 :: 9 : 6

=> w/0.80 = 9/6

=> x = 9/6 × 0.80

=> x = 1.2

Q55. Answer: (a) Madam Cama

Madame Cama unfurled the first Indian National Flag in the International Socialist Conference in Stuttgart (Germany) in 1907. The tricolor - flag Madam Cama unfurled had green, saffron, and red stripes. Red represented strength, saffron victory, and green stood for boldness and enthusiasm.

Q56. Answer: (c) Develop a model which can be replicated only in India.

The key objectives of Jan Aushadhi Scheme are to -

• Make quality the hallmark of medicines by ensuring supplies from the CPSUs and also through other PSUs and GMP compliant manufacturers in the private sector.

• Extend coverage of quality generic medicines, which would reduce and thereby redefine the unit cost of treatment per person.

• Provide access to any prescription drug or Over The Counter (OTC) drug in all therapeutic categories as generic equivalents.

• Not be restricted to the beneficiaries of Public Health System but also to serve others.

• create awareness through education and publicity that quality is not synonymous with high price

• Create a demand for generic medicines "By All for All" by improving access to better healthcare through low treatment costs.

• Also involve State governments, Central Government, Public Sector Enterprises, Private Sector, NGOs, Cooperative bodies and other institutions, being a public welfare programme.

Develop a model which can be replicated in other countries of the world, in pursuit of their common goal of achieving affordable quality health care.

Q57. Answer: (c) D

The correct answer is option 3 i.e Mithali Raj

Important points to remember:

2016 ICC Women's World Cup Twenty 20

• Host Country: India

• Champions: West Indies

• Runners Up: Australia

• Participants: 10

• Player of the Series: Stafanie Taylor (West Indies)

All ICC Women's Cricket World Cup T20 held with their locations are listed below:

Year	Host Nation	Winners
2009	England	England

2010	West Indies	Australia
2012	Sri Lanka	Australia
2014	Bangladesh	Australia
2016	India	West Indies
2018	West Indies	Australia
2020	Australia	Australia

Q58. Answer: (d) C

Number of people who speek hindi = (5 + 5+ 10 + 12) = 32

Hence, 32 is the correct answer.

Q59. Answer: (a) B

Number of people who speak more than one language = 60 – (10 + 5) = 45

Hence, '45' is the correct answer.

Q60. Answer: (a) D

Number of people who speak Bengali = (10 + 5) = 15

Number of people who speak Marathi = (13 + 12) = 25

The ratio of people who speak Bengali to those who speak Marathi = 15/25 = 3/5

Hence, '3/5' is the correct answer.

Q61. Answer: (c) D

In a farm, there are goats and peacocks.

If the number of heads are 60.

G + P = 60

= > P = 60 - G ---(i)

The number of feet are 170

4G + 2P = 170 ---(ii)

Substituting the value of equation (i) in (ii), we get:

4G + 2(60 – G) = 170

= > 4G + 120 – 2G = 170

= > 2G = 170 – 120

= > 2G = 50

= > G = 25

Hence, the number of goats is 25.

Q62. Answer: (c) D

As we know,

Average speed = total distance/total time

Total distance = 40 + 30 = 70 km

Time to cover 40 km with the speed of 80 km/hr = 40/80 = 1/2 hr

Time to cover 30 km with the speed of 60 km/hr = 30/60 = 1/2 hr

Total time = 1/2 + 1/2 = 1 hr

Average speed = 70/1 = 70 km/hr

Q63. Answer: (d) Archimedes principle

Archimedes' principle states that the upward buoyant force that is exerted on a body immersed in a fluid, whether fully or partially submerged, is equal to the weight of the fluid that the body displaces and acts in the upward direction at the center of mass of the displaced fluid.

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Q64. Answer: (c) D

1.The Physician visits office every Monday.

2. E is the cardiologist who comes neither on Tuesday nor on Thursday.

Day	Profession	Person
Monday	Physician	
Tuesday		
Wednesday	Cardiologist	E
Thursday		
Friday	Cardiologist	E

3. K is a surgeon and G is not the Physician.

4. The person who visits the office on Thursday is not a nephrologist.

5. H works on Tuesday and K works on the following day.

Day	Profession	Person
Monday	Physician	
Tuesday	Nephrologist	H
Wednesday	Surgeon	K
Thursday		G
Friday	Cardiologist	E

From statement 3,4 and 5 :

1) F is a physician.

2) G is a dentist.

So the final arrangement is :

Day	Profession	Person
Monday	Physician	F
Tuesday	Nephrologist	H
Wednesday	Surgeon	K
Thursday	Dentist	G
Friday	Cardiologist	E

Hence, H is the Nephrologist.

Q65. Answer: (a) B

Day	Profession	Person
Monday	Physician	F
Tuesday	Nephrologist	H
Wednesday	Surgeon	K
Thursday	Dentist	G
Friday	Cardiologist	E

‘F’ is the physician.

Q66. Answer: (c) D

Day	Profession	Person
Monday	Physician	F

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Tuesday	Nephrologist	H
Wednesday	Surgeon	K
Thursday	Dentist	G
Friday	Cardiologist	E

Hence, the cardiologist visits the office on Friday.

Q67. Answer: (b) B

Total work = 150

If both pipe open together, then tank filled in = 150/ (3 – 1) = 150/2 = 75 min

As we know,

75 min = 1 hr 15 min

Q68. Answer: (a) C

The correct answer is option 1 i.e C: Nine

All the teams participated in ICC Cricket World Cup T20 - 2016 are:

• Host (1): India

• Full Members (9): Australia, England, New Zealand, Pakistan, South Africa, Sri Lanka, West Indies, Bangladesh, Zimbabwe

• Qualifiers (6): Scotland,Netherlands, Ireland, Hong Kong, Afghanistan, Oman

Important facts about ICC Cricket World Cup T-20, 2016:

• Host: India

• Champions: West Indies

• Runners up - England

• Total number of participants - 16

• Player of the Series - Virat Kohli

All ICC Men's Cricket World Cup T20 held with their locations are listed below:

Year	Host Nation	Winners
2007	South Africa	India
2009	England	Pakistan
2010	West Indies	England
2012	Sri Lanka	West Indies
2014	Bangladesh	Sri Lanka
2016	India	West Indies
2020	Australia	•
2021	India	•

Q69. Answer: (d) D

The logic is:

BROWN : BNORW → The letters have been arranged in the order they appear in the general alphabetical series.

Similarly,

SOUND : ? → D, N, O, S, U is the correct order of the given letters as they appear in the general alphabetical series.

So, SOUND : DNOSU is the correct pair.

Hence, ‘DNOSU’ is the correct answer.

Q70. Answer: (c) Silicosis

The correct answer is Silicosis.

Key Points

Silicosis

• Silicosis is a form of lung disease caused by inhalation of crystalline silica dust, and is marked by inflammation and scarring in

the form of nodular lesions in the upper lobes of the lungs.

• It is a type of pneumoconiosis.

Additional Information

Syphilis

• Treponema pallidum is a spirochaete bacterium with subspecies that causes treponemal diseases such as syphilis, bejel, pinta, and yaws.

• Syphilis is caused by a thin, tightly coiled spirochete, Treponema pallidum subspecies pallidum.

Cirrhosis

• It is not contagious.

• Chronic liver damage.

Parkinson’s

• Parkinson's disease is a brain disorder that leads to shaking, stiffness, and difficulty with walking, balance, and coordination.

• Parkinson's symptoms usually begin gradually and get worse over time.

• As the disease progresses, people may have difficulty walking and talking.

• A disorder of the central nervous system that affects movement, often including tremors.

• Nerve cell damage in the brain causes dopamine levels to drop, leading to the symptoms of Parkinson's.

• Parkinson's often starts with a tremor in one hand.

• Movement disorder associated with cognitive deficits,

Q71. Answer: (a) 3.00 × 10^8

Its exact value is 299,792,458 metres per second (approximately 3.00 × 10^8 m/s, approximately 186,282 mi/s).

Q72. Answer: (d) C

Given series: 3, 5, 9, ?, 33, 65…….

The logic is:

(2 × 2) – 1 = 3

(3 × 2) – 1 = 5

(5 × 2) – 1 = 9

(9 × 2) – 1 = 17

(17 × 2) – 1 = 33

(33 × 2) – 1 = 65

Hence, ‘17’ is the correct answer.

Q73. Answer: (c) B

(0.2 × 0.2 × 0.2) (0.06 × 0.06 × 0.06) ÷ (0.12 × 0.12 × 0.12)

=> (0.2 × 0.2 × 0.2) × (0.06 × 0.06 × 0.06) / (0.12 × 0.12 × 0.12)

=> 0.008 × 1/8

=> 0.001

Q74. Answer: (d) Hyderabad

The Salar Jung Museum is an art museum located at Darushifa, on the southern bank of the Musi River in the city of Hyderabad, Telangana, India. It is one of the three National Museums of India.

Q75. Answer: (d) C

The correct answer is option 4 i.e Quantico

Bollywood actor Priyanka Chopra wins the Favourite Actress in a New TV series award at the People's Choice Awards (PCA) 2016 for her lead role in American TV thriller series Quantico.

Note: Important points to remember for 45nd People's Choice Awards (PCA) 2019

Location	**Barker Hanger, Santa Monica, California**
Movie of 2019	Avengers: Endgame
Male movie star 2019	Robert Downey Jr
Female movie star 2019	Zendaya

Q76. Answer: (b) C

The data are = 9, 5, 9, 3, 4, 7, 8, 4, 8, 9, 5, 9.

Min value = 3 and Maximum value = 9

Range of data = 9 – 3 = 6

Q77. Answer: (a) A

The correct answer is option 1 i.e Htin Kyaw

Important points to remember:

• Htin Kyaw: First civilian president from 30th March, 2016 to 21st March, 2018.

• Myint Swe: Became acting president according to the constitution after the resignation of Htin Kyaw.

• Henry Van Thio: Second vice president of Myanmar.

• Thein Sein: First democratically elected president from 30th March 2011 to 30th March 2016.

Facts about Myanmar:

• Capital: Naypyitaw

• Currency: Burmese kyat

• Current President: Win Myint

Q78. Answer: (d) Sodium

When the yellow lamp street light is first started, it emits a dim red/pink light to warm the sodium metal; within a few minutes as the sodium metal vaporizes, the emission becomes the common bright yellow.

Q79. Answer: (c) Lactic

Curd owes its sour taste to organic acids, particularly lactic acid. Milk becomes sour in a matter of hours after milking. This is due to the action of natural lactic acid bacteria on the milk sugar, turning it to lactic acid which causes the milk protein to coagulate.

Q80. Answer: (c) B

CP of 1 kg of wheat = Rs. 70

CP of 5 kg of wheat = 5 × 70 = 350

SP of 5 kg of wheat = 350 × 11/10 = 385

CP of 1 kg of sugar = Rs. 80

CP of 10 kg of sugar = 80 × 10 = Rs. 800

SP of 10 kg of sugar = 800 × 120/100 = 960

Total SP of 5 kg wheat and 10 kg of sugar = 385 + 960 = Rs. 1345

Q81. Answer: (c) Konkani

The Goa, Daman and Diu Official Language Act, 1987 makes Konkani in the Devanagari script the sole official language of Goa, but provides that Marathi may also be used "for all or any of the official purposes".

Q82. Answer: (a) C

Given:

An increase in interest rate amounts to Rs 120

Concept used:

SI = Prt/100

Calculation:

When the interest increased, an extra Rs 120 was added to the interest.

That is, the 2% increase in interest = Rs 120

=> 120 = (P × 2 × 1) /100

=> P = 12000/2

=> P = 6000

The sum is Rs. 6000.

Therefore The principal is Rs 6000.

Q83. Answer: (a) D

Let the radius of the circle be r cm

Circumference of the circle = 2πr

New radius of the circle = (r + x)

New circumference of the circle = 2π (r + x) = 2πr + 2πx

Circum increased by = 2πr + 2πx – 2πr = 2πx

Q84. Answer: (a) International Space Station

The International Space Station is a space station, or a habitable artificial satellite, in low Earth orbit. Its first component launched into orbit in 1998, and the ISS is now the largest man-made body in low Earth orbit and can often be seen with the naked eye from Earth.

Q85. Answer: (a) Plane mirror

The correct answer is the Plane mirror.

Key Points

• Periscope consists of an outer case with plane mirrors at each end set parallel to each other at a 45° angle.

• A periscope is an optical instrument that uses a system of prisms, lenses, or mirrors to reflect images through a tube.

• Light from a distant object strikes the top mirror and is then reflected at an angle of 90 degrees down the periscope tube

• A periscope lets you look around walls, corners, or other obstacles. Submarines have periscopes so that people inside can what is on the surface of the water.

Additional Information

Concept:

• Periscope: It is an optical instrument, uses mirrors at a 45° angle to observe over, around, and through which is prevented by the line of sight.

• It works based on the laws of reflection of light.

• It is used in submarines to view the upper surface sight, hiding positions for military, nuclear reactor, and many other ways

Explanation:

The correct answer is option 3 i.e Periscope

• Periscope is the instrument used in submarines to view objects above sea level.

• Hypsometer is used to measure elevation or height.

• Ondometer is used for measuring the wavelengths of radio waves.

• Pyrheliometer is used for measuring direct beam solar irradiance.

Q86. Answer: (d) D

The search team believes that the plane debris recovered in 2016, near Mozambique was highly likely to be from MH370-Malaysian aircraft which disappeared after take-off in 2014.

Conclusions:

I. The debris found near Mozambique definitely belonged to MH370 aircraft. → False

The search team believes, but nothing is proven yet, so the above conclusion cannot be true.

II. The search team is mistaken about the findings. → False

It cannot be concluded that the belief of the team is true or not, so the above conclusion cannot be true.

Hence, neither I nor II follows.

Q87. Answer: (b) Alluvial soils

Alluvial soil is a fine-grained fertile soil deposited by water flowing over flood plains or in river beds. It is formed by accumulated sediments transferred by the rivers and rapids, thus, it is amongst the most fertile soils. It is formed by the deposition brought by the rivers. This soil is very fertile and suitable for agriculture.

Q88. Answer: (d) A

The family tree diagram is shown below:

Hence, E is grandson of F.

Q89. Answer: (a) C

The logic is:

Similarly,

Hence, ‘PELTA’ is the correct answer.

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Q90. Answer: (a) C

sinθ = 15/17

Perpendicular = P, Hypotenuse = H and Base = B.

sin θ = P/H = 15/17

P = 15 and H = 17

As we know,

$H^2 = P^2 + B^2$

$=> 17^2 = 15^2 + B^2$

$=> B^2 = 289 – 225 = 64$

$=> B = \sqrt{64}$

=> B = 8

=> cot θ = B/P

Therefore cot θ = 8/15

Q91. Answer: (c) D

Let the first number is be x

The second number = 3x

Third number is = 6x

According to the question

=> x + 3x + 6x = 70 × 3

=> 10x = 210

=> x = 21

Smaller number is 21.

Q92. Answer: (b) 6 months

The time gap between the last day of the previous session and the first day of the next session should not be more than six months. In practice, however, normally three sessions are held every year.

Q93. Answer: (d) C

Letter	A	B	C	E
Meaning	•	÷	•	×

Given expression: 6 C 78 B 3 A 4 E 6 = ?

After replacing the letters by their meaning, we get:

L.H.S = 6 + 78 ÷ 3 - 4 × 6

= 6 + 26 – 24

= 32 – 24

= 8

Hence, ‘8’ is the correct answer.

Q94. Answer: (b) 14.96 × 10^7 km

The distance from Earth to the sun is called an astronomical unit, or AU, which is used to measure distances throughout the solar system. The AU has been defined as 149,597,870,700 meters (92,955,807 miles).

Q95. Answer: (b) It is decided by Reserve Bank of India.

All prices are quoted in dollar terms and the local currency is no longer used in transactions. Reserve bank of India (RBI) wishes to fix an exact par value for the rupee. Most exchange rates change slightly on a day-to-day basis, and market forces generally determine the basic trends.

Q96. Answer: (c) C

The age difference between M and R is the same as that between P and M. M is elder to P but younger to R.

R > M > P

R – M = M – P

= > 2M = R + P ---(i)

If the sum of the ages of R and P is 66.

R + P = 66 ---(ii)

Substituting the value of equation (ii) in (i), we get:

2M = 66

= > M = 33

Hence, M is 33 years old.

Q97. Answer: (b) D

The meaningful word formed by the jumbled letters are:

A. OLEMN → LEMON

B. PEALP → APPLE

C. OGREAN → ORANGE

D. OTTOPA → POTATO

All words except 'OTTOPA' are name of fruits, while 'OTTOPA' is a vegetable.

Hence, 'OTTOPA' is the odd one out.

Q98. Answer: (c) S.S.P. Chawrasia

The correct answer is S.S.P. Chawrasia.

Key Points

• Shiv Shankar Prasad Chawrasia, also known as "Chipputtsia", and "Chow" is an Indian professional golfer.

• After he turned professional in 1997, he has gone on to win eight titles on the Indian Tour, including two wins at the Indian Open.

Additional Information

Gurmeet Singh

• Gurmeet Singh won a gold medal 20 km race walk in a time of 1:20:29 in the Asian Games event 2016.

• His career turned around when he started to take training at Sports Authority of India, Bangalore centre.

• Gurmeet Singh belongs to Uttarakhand, India.

H.S. Prannoy

• HS Prannoy defeated Kidambi Srikanth in the finale to claim the men's singles title at the 82nd Senior National Championship.

• He achieved his career-best ranking of World No. 11 recently, saw off top seed Srikanth in a 49-minute clash to return the favour after his semi-final loss to his compatriot at the French Open Super Series last month.

• The tournament was held in Nagpur.

Chetan Anand

• Chetan Anand has been appointed as the Brand Ambassador of Brand "Transform".

• Transform is the first Indian Badminton Brand.

• Chetan Anand was a medalist in Commonwealth Games.

• Badminton in India is administered by the Badminton Association of India.

Q99. Answer: (c) B

Total distance = 30 km

3/5 of the total distance = 30 × 3/5 = 18 km

Remaining distance = 30 – 18 = 12 km

Time to cover 18 km distance with 6 km/hr = 18/6 = 3 hr

After reducing the speed by 2 km/hr, the New speed = 6 - 2 = 4 km/hr

Time to cover 12 km distance with 4 km/hr = 12/4 = 3 hr

Total time = 3 + 3 = 6 hrs

Required time = 6 : 30 + 6 hr = 12:30 pm

Q100. Answer: (b) Uttarakhand

The correct answer is Uttarakhand.

Key Points

• Rajaji National National Park, most famous for its elephant population.

• Located at the Himalayan foothills, near Haridwar, Rishikesh and Dehradun, with Ganga and Song rivers, flowing through it, the park is known for its scenic beauty and rich bio-diversity.

• A paradise for nature lovers and wildlife enthusiasts, the park is home to elephants, tigers, leopards, deer and ghorals, and a wide variety of birds. In 1983, three sanctuaries in Uttarakhand - Rajaji, Motichur and Chilla - were amalgamated into a large

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protected area and named Rajaji National Park, in honour of freedom fighter and first governor-general of India Late C Rajagopalachari; popularly known as “Rajaji”.

• This area is the north-western limit of Asian elephants. Spread over an area of 820.42 sq km, Rajaji is a magnificent ecosystem nestled in the Shivalik ranges at the start of the vast Indo–Gangetic plains, thus representing vegetation of several distinct zones and forest types.

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