WBP CONSTABLE PYP 2021

Q1. Which of the following was a Denmark colony in West Bengal?
(a) Chunchura, Hooghly
(b) Chandannagar, Hooghly
(c) Srirampur, Hooghly
(d) Barrackpore, North 24 Parganas

Q2. A certain sum of money becomes three times of itself in 20 years at simple interest. In how many years does it become double of itself at the same rate?
(a) 10 years
(b) 8 years
(c) 14 years
(d) 12 years

Q3. In the following series of numbers, find out how many times, 1, 3 and 7 have appeared together, 7 being in the middle and 1 and 3 on either side of 7?
2 9 7 3 1 7 3 7 7 1 3 3 1 7 3 8 5 7 1 3 7 7 1 7 3 9 0 6
(a) 9
(b) 3
(c) 5
(d) 4

Q4. Which colour represents Asia in Olympic Rings?
(a) Black
(b) Blue
(c) Green
(d) Yellow

Q5. What is SVEEP Program?
(a) Senior Voters Education and Electoral Participation Program
(b) Systematic Voters' Education and Electoral Participation Program
(c) Senior Voters Encouragement and Electoral Participation Program
(d) Systematic Voters' Encouragement and Electoral Participation Program

Q6. Who led the rebels in Kanpur during the Great Revolt of 1857?
(a) Nana Saheb
(b) Bahadur Shah II
(c) Rani Lakshmibai
(d) Begum Hazrat Mahal

Q7. A dog makes 4 jumps in the time it takes a cat to make 5 jumps, but the dog's 3 jumps are equal to the cat's 4 jumps. What is the speed ratio of the cat and the dog?
(a) 15 : 11
(b) 15 : 16
(c) 16 : 15
(d) 11 : 15

Q8. 2023 Men's Cricket World Cup will be held in which country?
(a) India
(b) Australia
(c) South Africa
(d) England

Q9. The profit earned after selling an article for Rs. 1,754 is the same as the loss incurred after selling the article for Rs. 1,492. What is the cost price of article?
(a) Rs. 1695
(b) Rs. 1523
(c) Rs. 1623
(d) Rs. 1589

Q10. Laxman went 15 km to the west from my house, then turned left and walked 20 km. He then turned East and walked 25 km and finally turning left covered 20 km. How far was he from my house ?
(a) 80 km
(b) 5 km
(c) 40 km
(d) 10 km

Q11. In what ratio must a grocer mix two varieties of pulses costing Rs.15 and Rs.12 per kg respectively so as to get a mixture worth Rs. 16.50 kg so that he will make a profit of 20%?
(a) 7 : 3
(b) 3 : 7
(c) 7 : 5
(d) 5 : 7

Q12. Which actor was popularly known as "Dadamani" in the world of Hindi cinema?
(a) Rajesh Khanna
(b) Dev Anand
(c) Utpal Dutt
(d) Ashok Kumar

Q13. If O is the circumcenter of triangle ABC and ∠BAC = 50°, then ∠OBC = ?
(a) 50°
(b) 60°
(c) 40°
(d) 30°

Q14. Which Mughal emperor introduced Din-i Ilahi?
(a) Shah Jahan
(b) Humayun
(c) Jahangir
(d) Akbar

Q15. What will be written in place of the question mark:
A, I, P, V, A, E, ?
(a) H
(b) E
(c) G
(d) F

Q16. The word PORTER is written as MBNZQN in a certain code language, but how to write REPORT?
(a) NQBMNZ
(b) NQMNBZ
(c) NBQMNZ
(d) NQMBNZ

Q17. Ajay and Anil are a joint venture partner. Ajay employs Rs. 8000 for 8 months in business and Anil employs money for the remaining 4 months. If Anil gets 20% of profit at the end of the year, how much money did Anil invest?
(a) Rs. 5400
(b) Rs. 2000
(c) Rs. 3000
(d) Rs. 4000

Q18. How many balls each of radius 1 cm can be made by melting a bigger ball whose radius is 8 cm?
(a) 321
(b) 418
(c) 512
(d) 614

Q19. What is C++?
(a) An input device
(b) an operating system
(c) An assembly language
(d) A programming language

Q20. 2020 Tokyo Olympics javelin gold medalist Neeraj Chopra hails from which of the following places?
(a) Gurugram
(b) Sonpath
(c) Panipat
(d) Ambala

Q21. Buxa Tiger Conservation Project is located in which district of West Bengal?
(a) Jalpaiguri
(b) Alipurduar
(c) Darjeeling
(d) South 24 Parganas

Q22. In which state Kalamkari painting originated?
(a) Rajasthan
(b) Andhra Pradesh
(c) Gujarat
(d) Madhya Pradesh

Q23. Which of the following is the reflection of the given word?

EFFECTIVE

(a) EFFECTIVE
(b) EFFECTIVE
(c) EVITCEFFE
(d) EVITCEFFE

Q24. Which mahajanapada ruler was Ajatashatru?
(a) Anga
(b) Kosala
(c) Magadha
(d) Avanti

Q25. There were 35 students in a hostel. Due to admission of 7 new students, the expenses of the mess were increased by Rs. 42 per day, while the average expenditure per head diminished by Rs. 1. What was the original expenditure of the mess?
(a) Rs. 420
(b) Rs. 400
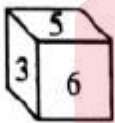(c) Rs. 433
(d) Rs. 430

Q26. Identify the correct option:
Carnivorous : Tiger : Wolf
(a) Player : Master : Manager
(b) Mango : Banana : Fruit
(c) Student : Boy : Girl
(d) Cat : Cow : Milk

Q27. Who got Dronacharya Award in archery in 2020?
(a) Shiva Singha
(b) Yashpal Rana
(c) Dharmendra Tiwari
(d) Naresh Kumar

Q28. Three positions of a dice are given. Based on them find out which number is found opposite the number 2 in the given dice.

(a) 5
(b) 3
(c) 6
(d) 4

Q29. Who is called the father of Bengal Renaissance?
(a) Raja Rammohan Roy
(b) Pandit Iswarchandra Vidyasagar
(c) Michael Madhusudan Dutta
(d) Prince Dwarkanath Tagore

Q30. If the average of 6 numbers is 17, what is the sum of the numbers?
(a) 112
(b) 102
(c) 132
(d) 122

Q31. Which of the following metals is present in chlorophyll?
(a) Barium
(b) Beryllium
(c) Magnesium
(d) Calcium

Q32. Ravi's birthday is Wednesday. If Gopal's birthday is 50 days after Ravi's birthday, then when is Gopal's birthday?
(a) Saturday
(b) Tuesday
(c) Thursday
(d) Friday

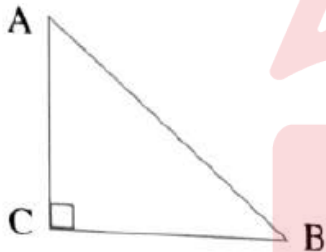**Q33.** If each side of a cube is decreased by 10%, by what percentage will its lateral surface area be reduced?
(a) 15%
(b) 19%
(c) 16%
(d) 21%

Q34. In which year was All India Kisan Sabha established?
(a) 1916
(b) 1926
(c) 1936
(d) 1946

Q35. In the triangle below, if AC = 20 m, AB = x m and BC = (50 - x) m, then AB = ?

(a) 30 m
(b) 29 m
(c) 25 m
(d) 27 m

Q36. Who won the Nobel Prize in Literature in 2020?
(a) Lewis Gluck
(b) Bob Dylan
(c) Peter Hundke
(d) Kazuo Ishiguro

Q37. Which of the following words cannot be formed using the letters of the word TRANSFERENCE?
(a) TENCE
(b) FRANCE
(c) FACTOR
(d) ENTRANCE

Q38. 10° channel passes between which two of the following?
(a) Rameswaram and Jaffna Peninsula
(b) Andaman and Nicobar Islands
(c) Great Nicobar and Sumatra Islands
(d) South Andaman and Little Andaman Islands

Q39. The difference between compound interest and simple interest on an amount of Rs.15,000 for 2 years is Rs. 96. What is the rate of interest per annum?
(a) 6%
(b) 10%
(c) 12%
(d) 8%

Q40. Tokyo Olympic medalist Lovlina Borgohain is a resident of which state?
(a) Mizoram
(b) Tripura
(c) Assam
(d) Manipur

Q41. If the sum of two numbers is 27 and the product is 182, what is the smaller number?
(a) 16
(b) 12
(c) 14
(d) 13

Q42. In which year was the 'Kanyashree' project launched in West Bengal?
(a) 2014
(b) 2012
(c) 2013
(d) 2011

Q43. Inhabitants of which civilization introduced the first drainage system?
(a) Mesopotamia Civilization
(b) Egyptian Civilization
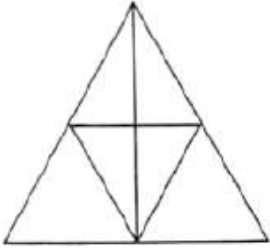(c) Indus Civilization
(d) Chinese Civilization

Q44. The ratio of the number of 50 paisa, 25 paisa and 10 paisa coins in a bag is 5 : 8 : 3 and the total amount is Rs. 144. How many coins are there?
(a) 150
(b) 140
(c) 200
(d) 175

Q45. National Planning Commission was established in which year?
(a) 1949
(b) 1951
(c) 1948
(d) 1950

Q46. How many triangles are there in the picture below?

(a) 14
(b) 11
(c) 13
(d) 12

Q47. Introducing a man, a woman said, "He is the only son of my mother's mother". How is the woman related to the man?
(a) Niece
(b) Mother
(c) Sister
(d) Aunt

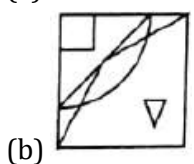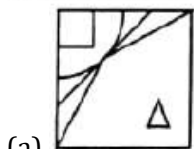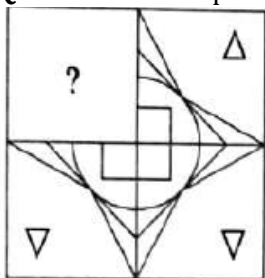**Q48.** If the following words are arranged in alphabetical order, which word will come in the middle?
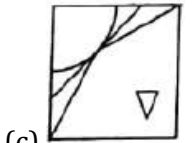Electric, Elector, Electrode, Elect, Electron
(a) Elect
(b) Electric
(c) Electron
(d) Elector

Q49. Full form of HIDCO-
(a) Housing Infrastructure Development Construction Officer
(b) Housing Improvement Development Corporation
(c) Housing Infrastructure Development Corporation
(d) Housing Interest Deduction Controlling Officer

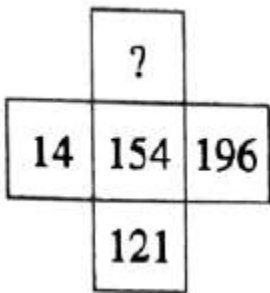**Q50.** What is the picture that fills the question mark?

(a)

(b)

(c)

(d)

Q51. What is the name of the vice president of the United States?
(a) Dick Cheney
(b) Mike Pence
(c) Kamala Harris
(d) Joe Biden

Q52. What will be written in place of the question mark:

(a) 17
(b) 11
(c) 15
(d) 13

Q53. Which is the longest bridge in West Bengal?
(a) Rabindra Bridge
(b) Farakka Bridge
(c) Bhutani Bridge
(d) Joyee Bridge

Q54. On which of the following dates was the Constitution of India adopted?
(a) December 31, 1950
(b) November 26, 1949
(c) January 26, 1949
(c) January 26, 1950

Q55. If x tan 45° sin 30° = cos 30° tan 30°, then what is the value of x?
(a) 1
(b) $\sqrt{3}$
(c) $\frac{\sqrt{3}}{2}$
(d) $\frac{1}{\sqrt{2}}$

Q56. Which session of the Indian National Congress was presided over by Mahatma Gandhi?
(a) Karachi
(b) Amaravati
(c) Nagpur
(d) Belgaum

Q57. What will be written in place of the question mark:
48, 24, 96, 48, 192, ?
(a) 98
(b) 76
(c) 96
(d) 90

Q58. Which classical dance is in the name of a village?
(a) Mohiniattam
(b) Kuchipuri
(c) Bharatanatyam
(d) Kathakali

Q59. Which lens is used as a projector in the cinema?
(a) Meniscus lens
(b) Convex lens
(c) Zoom lens
(d) Concave lens

Q60. X alone can do a piece of work in 20 days. Again B alone completes the work in 30 days. If the two work together, how many days will the work be completed?
(a) 10 days
(b) 16 days
(c) 15 days
(d) 12 days

Q61. Find the odd one:
(a) Tiny
(b) Big
(c) Trivial
(d) Small

Q62. Which of the following gases are contained in the L.P.G. cylinder?
(a) Isobutane and propane
(b) Butane and Isobutane
(c) Butane and propane
(d) Butane, isobutane and propane

Q63. What will be written in place of the question mark:
BMX, DNW, FOV, ?
(a) HPT
(b) GHO
(c) HPU
(d) GPS

Q64. If there was no atmosphere around the earth, the earth would have been
(a) too warm
(b) slightly warm
(c) slight cooling
(d) excessive cooling

Q65. What will be written in place of the question mark:

3F, 6G, 11I, 18L, ?

(a) 27Q

(b) 27P

(c) 25P

(d) 25N

Q66. Buddhist book 'Tripitaka' is written in which script?

(a) Hindi

(b) Pali

(c) Sanskrit

(d) Prakrit

Q67. Which of the following organs is not controlled by autonomic nervous system?

(a) Gland

(b) Cardiac apparatus

(c) Eyes

(d) Uterus

Q68. LCM and HCF of two numbers are 315 and 7 respectively. If one number is 35, what is the other number?

(a) 35

(b) 55

(c) 63

(d) 105

Q69. If a sum of money is increased by $\frac{1}{7}$ becomes Rs. 40, what was the original sum of money?

(a) Rs. 37

(b) Rs. 35

(c) Rs. 25

(d) Rs. 30

Q70. What is the state animal of West Bengal?

(a) Asian palm civet

(b) Royal Bengal Tiger

(c) Fishing cat

(d) Gharial

Q71. A is brother of B. B is daughter of C and D is father of A. Then how is C related to D ?

(a) Grand Daughter

(b) Husband

(c) Grandmother

(d) Wife

Q72. Which was the important port of Indus civilization?

(a) Lothal

(b) Kalibangan

(c) Surkotada

(d) Dholavira

Q73. If, K stands for '-', L stands for '÷', M stands for '+' and D stands for '×', then
117 L 3 K 5 M 12 D 8 = ?
(a) 93.6
(b) 368
(c) 130
(d) 256

Q74. What is the unit of lens power?
(a) Watts
(b) Meters
(c) Diopter
(d) Centimeter

Q75. Which country gave the name "Amphan"?
(a) Pakistan
(b) Bangladesh
(c) Thailand
(d) Nepal

Q76. Which sequence of letters when placed in the blanks one after the other will complete the given letter series ?
a_bc_a_bcda_ccd_bcd_
(a) adbcad
(b) abddbd
(c) adbbad
(d) acbdbb

Q77. Who wrote the famous Bengali novel "Prothom Protishruti"?
(a) Sunil Gangopadhyay
(b) Leela Majumder
(c) Ashapurna Devi
(d) Mahasweta Devi

Q78. Which of the following is not an Operating System (OS)?
(a) DOS
(b) Windows
(c) Oracle
(d) Linux

Q79. $\left(999\frac{1}{7} + 999\frac{2}{7} + 999\frac{3}{7} + 999\frac{4}{7} + 999\frac{5}{7} + 999\frac{6}{7}\right)$ = ?
(a) 5999
(b) 5997
(c) 5799
(d) 5979

Q80. In which year did India win the first T-20 World Cup?
(a) 2003
(b) 2007
(c) 2009
(d) 2005

Q81. Which day is celebrated as Police Day in West Bengal?
(a) 1st September
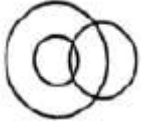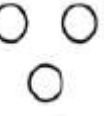(b) 30th September
(c) 15th August
(d) 31st August

Q82. Rs. 710 were divided among A, B and C in such a way that A had Rs. 40 more than B and C had Rs. 30 more than A. How much was C's share?
(a) Rs. 235
(b) Rs. 300
(c) Rs. 135
(d) Rs. 270

Q83. Whose autobiography is Wings of Fire?
(a) Pranab Mukherjee
(b) Indira Gandhi
(c) Subhash Chandra Bose
(d) APJ Abdul Kalam

Q84. Which of the following pictures will indicate the relationship between women, mothers and engineers?

(a)

(b)

(c)

(d)

Q85. 25% of a certain number when added to 30% of 150 produces the sum 75. What is the number?
(a) 102
(b) 120
(c) 210
(d) 220

Q86. Which of the following is not a rabi crop?
(a) Wheat
(b) Mustard
(c) Cotton
(d) Pulse

Q87. Which country has been elected as the President of the United Nations Security Council in August 2021?
(a) Norway
(b) United States of America
(c) India
(d) China

Q88. A tube can empty one third of a reservoir in 3 minutes. How much part of that reservoir can be emptied in $7\frac{1}{2}$ minutes?

(a) $\frac{1}{2}$

(b) $\frac{2}{3}$

(c) $\frac{5}{6}$

(d) $\frac{5}{7}$

Q89. P, Q, R, S, and T are sitting around a circular table. R sits to the right of P and second to the left of S. T does not sit between P and S. So who is sitting second to the left of R?

(a) P

(b) Q

(c) T

(d) S

Q90. Which mosquitoes spread dengue?

(a) Mansonia

(b) Aedes

(c) Culex

(d) Anopheles

Q91. Which of the following permanently stores data in a computer?

(a) ROM

(b) A.L.U.

(c) RAM

(d) Cache Memory

Q92. A, B and C enter into a partnership. A contributes one third of the total Capital which they have, while B contributes as much as A and C together. If the profit at the end of year in Rs. 900, what will C get:

(a) Rs. 300

(b) Rs. 100

(c) Rs. 200

(d) Rs. 150

Q93. What is the name of the harvest festival in Kerala?

(a) Bihu

(b) Onam

(c) Baisakhi

(d) Ochre ink

Q94. If the ratio of two numbers is 5 : 8 and their difference is 69, what is the bigger number?

(a) 115

(b) 128

(c) 184

(d) 112

Q95. Reena is twice as old as Sunita. Namita is younger than Shravani and Shravani is older than Sunita. If Kakali's age is twice that of Shravani, who is in the middle according to age?

(a) Kakali

(b) Reena

(c) Shravani

(d) Inadequate information

Q96. In which session Congress demanded 'Purna Swarajya'?
(a) Lahore (1930)
(b) Madras (1927)
(c) Haripura (1938)
(d) Calcutta (1928)

Q97. Father's present age is 6 times the son's age. If the father's age after 6 years is 3 times the son's age, then what is the present age of the father?
(a) 48 years
(b) 24 years
(c) 36 years
(d) 30 years

Q98. Which of the following is not a unit of energy?
(a) Arg
(b) Joule
(c) Calories
(d) Pascal

Q99. What will fit in the '*' place in the given equation?
16 * 4 * 5 * 14 * 6
(a) ÷ + = -
(b) ÷ - = ×
(c) ÷ × = +
(d) - × + =

Q100. What was the official language of the Gupta Empire?
(a) Hindi
(b) Pali
(c) Prakrit
(d) Sanskrit

SOLUTION

S1. Ans.(c)
Sol. The Denmark had a colony at Srirampur in the Hooghly district of West Bengal. The Danes ruled the city from 1755 to 1845.

S2. Ans.(a)
Sol. Let principal = Rs. p
Amount = Rs. 3p
Interest = 3p – p = Rs. 2p
ATQ,
$2p = \frac{p \times 20 \times r}{100}$
➔ $r = \frac{2p \times 100}{20p}$
➔ r = 10%
Also
Let principal = Rs. p
Amount = Rs. 2p
Interest = 2p – p = Rs. p
$p = \frac{p \times t \times r}{100}$

➔ t = $\frac{100 \times p}{10 \times p}$

➔ t = 10 years

S3. Ans.(b)
Sol. 2 9 7 3 **1 7 3** 7 7 1 3 3 **1 7 3** 8 5 7 1 3 7 7 **1 7 3** 9 0 6

There are three 173 or 371.

S4. Ans.(b)
Sol. The Olympics are an international multi-sport event. It is held once in every four years. The blue logo ring of five rings in the Olympic symbol represents the continent of Asia.

S5. Ans.(b)
Sol. SVEEP Program is Systematic Voters' Education and Electoral Participation Program.

S6. Ans.(a)
Sol. Nana Saheb led the rebels in Kanpur during the Great Revolt of 1857. Nana saheb's real name was Dhundhupant. He was the successor of Peshwa Baji Rao II.

S7. Ans.(b)
Sol. Cat   Dog

  5   4

  4   3

By cross multiplying, we get,

Ratio of speed of cat and dog = 15 : 16

S8. Ans.(a)
Sol. The 2023 Men's Cricket World Cup will be held in India in October and November. This is the first time that this competition will be held entirely in India.

S9. Ans.(c)
Sol. 1754 – CP = Profit

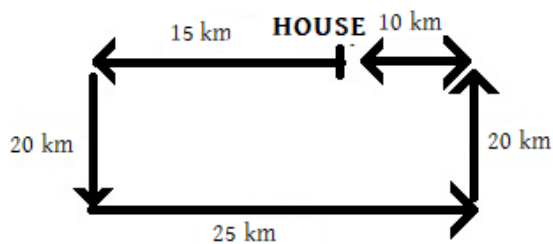CP – 1492 = Loss

Profit and loss are equal,

ATQ,

1754 – CP = CP – 1492

➔ 2 CP = 3246

➔ CP = Rs. 1623

S10. Ans.(d)
Sol.

Presently Laxman is 10 km away from my house.

S11. Ans.(c)
Sol. Let two mixtures are mixed in the ratio x : y
Cost price of the first type of pulse = Rs. 15x
Cost price of the second type of pulse = Rs. 12y
Total cost price = Rs. (15x + 12y)
Total selling price = Rs. $\{(15x + 12y) \times \frac{120}{100}\}$
ATQ,
$(15x + 12y) \times \frac{120}{100} = 16.50 \times (x + y)$
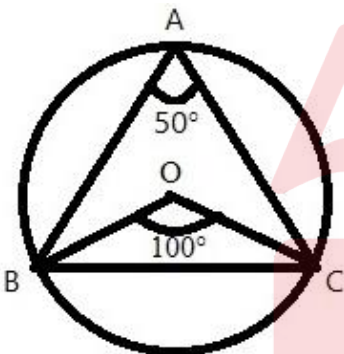➔ $(15x + 12y) \times 120 = 1650 \times (x + y)$
➔ 1800x + 1440y = 1650x + 1650y
➔ 1800x – 1650x = 1650y – 1440y
➔ 150x = 210y
➔ $\frac{x}{y} = \frac{210}{150}$
➔ x : y = 7 : 5

S12. Ans.(d)
Sol. Famous actor Ashok Kumar was popularly known as Dadamani in the world of Hindi cinema. His real name was Kumudlal Ganguly. He is better known by his stage name Ashok Kumar.
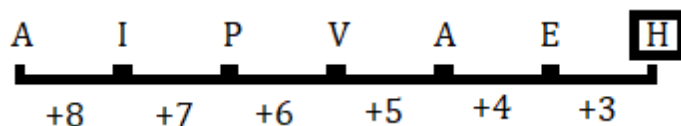
S13. Ans.(c)
Sol.

∠BAC = 50°
∠BOC = 50 × 2 = 100° [We know the central angle is twice the circumscribed angle]
OB = OC [radius of same circle]
Hence, ΔOBC is an isosceles triangle
∠OBC = ∠OCB = $\frac{180-100}{2} = 40°$

S14. Ans.(d)
Sol. Din-I-Ilahi is an ideology introduced by Mughal Emperor Akbar in 1582. It has had an influence on all religions, especially Islam, Hinduism, Christianity and Zoroastrianism.

S15. Ans.(a)
Sol.

S16. Ans.(d)
Sol.

P	M		R	N
O	B		E	Q
R	N		P	M
		Similarly		
T	Z		O	B
E	Q		R	N
R	N		T	Z

S17. Ans.(d)
Sol. Let Anil invested Rs. x
Capital ratio = 8000 × 8 : x × 4 = 64000 : 4x
profit sharing ratio = 80 : 20 = 4 : 1
ATQ,
$\frac{64000}{4x} = \frac{4}{1}$
➔ 16x = 64000
➔ x = $\frac{64000}{16}$
➔ x = Rs. 4000

S18. Ans.(c)
Sol. Number of balls = $\frac{\text{volume of larger ball}}{\text{volume of smaller ball}} = \frac{\frac{4}{3}\pi 8^3}{\frac{4}{3}\pi 1^3} = 512$

S19. Ans.(d)
Sol. C++ is a programming language. C++ is used everywhere in native applications, operating systems, games, web applications.

S20. Ans.(c)
Sol. 2020 Tokyo Olympics Javelin gold medalist Neeraj Chopra hails from Khandala village in Panipat, Haryana. He took first place in the Lausanne Diamond League.

S21. Ans.(b)
Sol. Buxa Tiger Conservation Project is located in Alipurduar district of West Bengal. It was established in 1983 and is currently the 15th tiger reserve in India.

S22. Ans.(b)
Sol. Kalamkari painting style originated in Andhra Pradesh state and Telangana several hundred years ago. Passages from sacred texts including the Mahabharata, Ramayana and Bhagavata are depicted in this style.

S23. Ans.(b)
Sol. Option (b) is the correct reflection of the given word.

S24. Ans.(c)
Sol. Ajatashatru was one of the most important rulers of the Haryanka dynasty of Magadha in eastern India. He was the son of king Bimbisara. And he was a contemporary of both Mahavira and Gautama Buddha.

S25. Ans.(a)
Sol. Let average cost per student be Rs. x
Total cost = Rs. 35x
Total student = 35 + 7 = 42
ATQ,
42(x – 1) – 35x = 42
➔ 42x – 42 – 35x = 42
➔ 7x = 84
➔ x = 12
The original expenditure of the mess was = $12 \times 35 = $ Rs. 420

S26. Ans.(c)
Sol. Examples of Carnivorous are Tiger and Wolf.
Similarly Boy and Girl can be Student.

S27. Ans.(c)
Sol. In 2020, the President of India awarded the Dronacharya Award to archery expert Dharmendra Tiwari.

S28. Ans.(c)
Sol.

A dice has three positions. Based on this there will be 6 as opposed to 2 numbers.

S29. Ans.(a)
Sol. In the 18th and 19th centuries, Raja Rammohan Roy introduced several significant reforms in India, which is why Raja Rammohan Roy is called the father of the Renaissance in modern India.

S30. Ans.(b)
Sol. Sum of numbers = $6 \times 17 = 102$

S31. Ans.(c)
Sol. Chlorophyll is a green photosynthetic pigment found in plants, algae and cyanobacteria. The metal magnesium (Mg) is present in chlorophyll.

S32. Ans.(c)
Sol. Dividing 50 by 7 gives 1 as the remainder
So Gopal's birthday will be = Wednesday + 1 = Thursday

S33. Ans.(b)
Sol. Let side of a cube = x unit
Surface area of cube = $4x^2$ Sq. unit
length reduced by 10%,
Now the length of the sides of the cube = $\frac{9x}{10}$ unit

Surface area of cube = $4\left(\frac{9x}{10}\right)^2 = \frac{81x^2}{25}$ Sq. unit

The area is reduced = $4x^2 - \frac{81x^2}{25} = \frac{19x^2}{25}$ Sq. unit

∴ Percentage of area decreased = $\frac{\frac{19x^2}{25}}{4x^2} \times 100 = 19\%$

S34. Ans.(c)
Sol. The All India Kisan Sabha was formed in April 1936 at Lucknow. This meeting is also known as 'Akhil Bharatiya Kisan Sabha'. This meeting was chaired by Swami Sahajanand Saraswati.

S35. Ans.(b)
Sol. It is a right triangle,
Applying the Pythagorean theorem, we get
Hypotenuse^2 = Perpendicular^2 + Base^2
ATQ,
$x^2 = (20)^2 + (50 - x)^2$
➜ $x^2 = 400 + 2500 - 100x + x^2$
➜ $100x = 2900$
➜ $x = 29$ m

S36. Ans.(a)
Sol. American poet Louise Gluck won the 2020 Nobel Prize in Literature. He won this award for his incredible poetic voice.

S37. Ans.(c)
Sol. The word FACTOR cannot be formed with the letters of the word TRANSFERENCE. Because there is no O in the given word.

S38. Ans.(b)
Sol. The 10° Channel passes between the Andaman and Nicobar Islands. And this channel separates the Andaman Islands and the Nicobar Islands in the Bay of Bengal from each other.

S39. Ans.(d)
Sol. Let rate of interest be r%
The difference between compound interest and simple interest is = Rs. $(15000 \times \frac{r^2}{100 \times 100})$
ATQ,
$15000 \times \frac{r^2}{100 \times 100} = 96$
➜ $r^2 = \frac{96 \times 100 \times 100}{15000}$
➜ $r^2 = 64$
➜ r = 8%

S40. Ans.(c)
Sol. Tokyo Olympics medalist Lovlina Borgohain hails from the state of Assam. She is the first woman boxer from Assam and the third Indian boxer to win a bronze medal at the Olympics.

S41. Ans.(d)
Sol. Let two numbers be x and y
x + y = 27
xy = 182
➜ $y = \frac{182}{x}$ …. (i)
x + y = 27
➜ $x + \frac{182}{x} = 27$
➜ $\frac{x^2 + 182}{x} = 27$
➜ $x^2 + 182 = 27x$

➔ $x^2 - 27x + 182 = 0$
➔ x (x – 13) -14 (x – 13) = 0
➔ (x – 13) (x – 14) = 0
(x – 13) = 0
➔ x = 13
(x – 14) = 0
➔ x = 14
The smaller number is 13

S42. Ans.(c)
Sol. The Kanyashree scheme was launched by the West Bengal government in 2013. Kanyashree project is done to improve the status of girls and their welfare. The project won first place in the United Nations Public Service Awards 2017.

S43. Ans.(c)
Sol. The inhabitants of the Indus Civilization were the first to introduce drainage systems. This underground drainage system was one of the most distinctive aspects of the city layout.

S44. Ans.(a)
Sol. Let x be the common factor
There are 50 paise coins in the bag = 5x
There are 25 paise coins in the bag = 8x
There are 10 paise coins in the bag = 3x
50 paise coin value = Rs. $\frac{5x}{2}$
25 paise coin value = $\frac{8x}{4}$ = Rs. 2x
10 paise coin value = $\frac{30x}{100}$ = Rs. $\frac{3x}{10}$
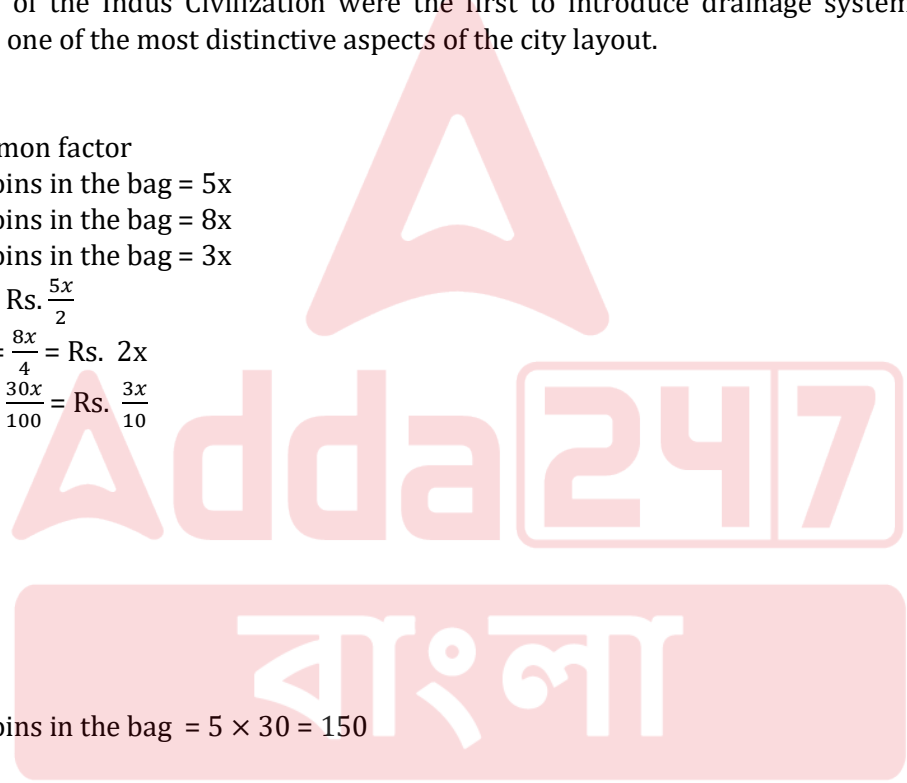ATQ,
$\frac{5x}{2}$ + 2x + $\frac{3x}{10}$ = 144
➔ $\frac{25x+20x+3x}{10}$ = 144
➔ $\frac{48x}{10}$ = 144
➔ x = 144 $\times \frac{10}{48}$
➔ x = 30
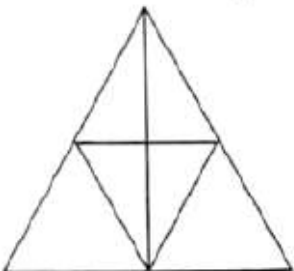There are 50 paise coins in the bag = 5 × 30 = 150

S45. Ans.(d)
Sol. The National Planning Commission of India or Planning Commission was established on 15th March 1950. The Prime Minister was the chairman of this commission.

S46. Ans.(c)
Sol.

There are 13 triangles in this picture.

S47. Ans.(a)
Sol. Showing the man, the woman said, "He is the only son of my mother's mother." The woman becomes the man's sister's daughter or niece.

S48. Ans.(b)
Sol. In alphabetical order,
Elect ➜ Elector ➜ Electric ➜ Electrode ➜ Electron
The word Electric will be in the middle.

S49. Ans.(c)
Sol. Full form of HIDCO is Housing Infrastructure Development Corporation.
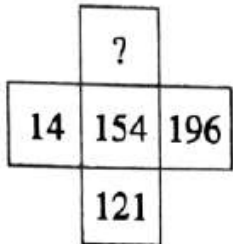
S50. Ans.(d)
Sol.

S51. Ans.(c)
Sol. Kamala Harris is the first female Vice President of the United States. She became the first female Vice President in American history when Joe Biden became the 46th President of the United States.
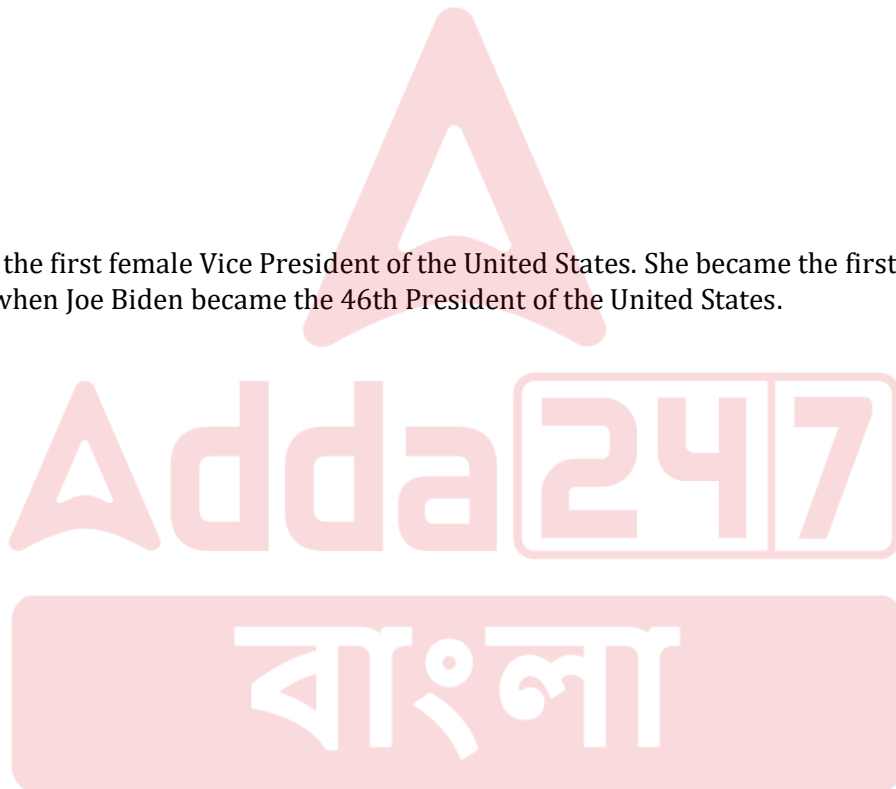
S52. Ans.(b)
Sol.

$14^2 = 196$
$11^2 = 121$
$14 \times 11 = 154$

S53. Ans.(d)
Sol. Joyee Setu or Joyee Bridge is the longest river bridge in West Bengal, connecting the cities of Haldibari and Mekhligonj in the Cooch Behar district of West Bengal.

S54. Ans.(b)
Sol. The Constitution of India was adopted by the Constituent Assembly of India on 26 November 1949. The entire constitution came into force on 26th January 1950.

S55. Ans.(a)
Sol. x tan 45° sin 30° = cos 30 ° tan 30 °
➜ $x (1) (\frac{1}{2}) = (\frac{\sqrt{3}}{2}) (\frac{1}{\sqrt{3}})$
➜ $x = \frac{1}{2} \times \frac{2}{1}$
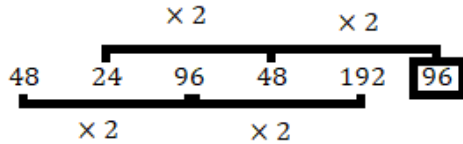➜ $x = 1$

S56. Ans.(d)
Sol. In 1924, at the Belgaum session of the Indian National Congress, Mahatma Gandhiji was elected as the President of the Indian National Congress. The Indian National Congress was the first nationalist modern movement.

S57. Ans.(c)
Sol.

S58. Ans.(b)
Sol. Kuchipuri is the name of a village in Krishna district of Andhra Pradesh. This is where the Kuchipudi classical dance style got its name. This dance originated in Andhra Pradesh in the 17th century.

S59. Ans.(b)
Sol. The lens used in theater or cinema projectors is a convex lens. This lens has outward curvature on both sides.

S60. Ans.(d)
Sol. They work together in one day = $\frac{1}{20} + \frac{1}{30} = \frac{3+2}{60} = \frac{1}{12}$ part

Both of them will take time to complete the work = $\frac{1}{\frac{1}{12}}$ = 12 days

S61. Ans.(b)
Sol. Tiny, Trivial and Small means small. The mismatched word here is Big.

S62. Ans.(c)
Sol. LPG is liquefied petroleum gas composed of hydrocarbons containing three or four carbon atoms. The components of this gas are propane and butane. It is a flammable gas.

S63. Ans.(c)
Sol. BMX, DNW, FOV, ?
The first letter of each word is incremented by 2, the second letter is incremented by 1, and the third letter is incremented by 1.
Thus the HPU sits in the question mark.

S64. Ans.(d)
Sol. If there was no atmosphere around the Earth, the Earth would be much cooler or colder. Because of this extreme cold no life would have existed on earth.

S65. Ans.(b)
Sol. 3F, 6G, 11I, 18L, ?
For numbers
3 + 3 = 6
6 + 5 = 11
11 + 7 = 18
18 + 9 = 27
For alphabets
F + 1 = G
G + 2 = I
I + 3 = L
L + 4 = P
So 27P will sit in the question mark.

S66. Ans.(b)
Sol. The main religious book of Buddhists is called 'Tripitaka'. This book is written in Pali language. This book contains Siddhartha Gautama Buddha's Dharma, Philosophy, Sayings and Precepts. It is divided into three volumes, the volumes are respectively – Sutta Pitaka, Vinaya Pitaka and Abhidhamma Pitaka.

S67. Ans.(a)
Sol. The glandular organ is not controlled by the autonomic nervous system. Glands are mainly of three types namely - Endocrine glands, Exocrine glands and Mixed glands.

S68. Ans.(c)
Sol. The other number is = $\frac{\text{LCM} \times \text{HCF}}{\text{One number}}$ = $\frac{315 \times 7}{35}$ = 63

S69. Ans.(b)
Sol. Let the amount of money be 1

Increased by $\frac{1}{7}$ part,

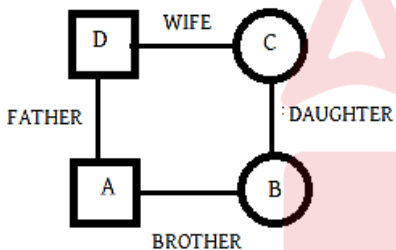Now the amount of money is = $1 + \frac{1}{7} = \frac{8}{7}$

Actual amount = $40 \times \frac{1}{\frac{8}{7}} = 40 \times \frac{7}{8}$ = Rs. 35

S70. Ans.(c)
Sol. The state animal of West Bengal is Fishing Cat. They typically inhabit swamps, lagoons, swamps, and mangrove forests.

S71. Ans.(d)
Sol.

S72. Ans.(a)
Sol. Lothal was a notable port of the Indus Civilization. Built of burnt bricks, this port was the first man-made port in the world. It is located in the present state of Gujarat.

S73. Ans.(c)
Sol. 117 L 3 K 5 M 12 D 8
K stands for '-', L stands for '÷', M stands for '+' and D stands for '×'
ATQ,
117 ÷ 3 – 5 + 12 × 8
= 39 – 5 + 96
= 34 + 96
= 130

S74. Ans.(c)
Sol. The unit of lens power is the diopter. This unit is abbreviated as D. A lens with a focal length of 1 meter (1m) has a power of 1 diopter (1D).

S75. Ans.(c)
Sol. "Amphan" is a super cyclone. This cyclone formed in the Bay of Bengal hit eastern India and Bangladesh along the Bay of Bengal on 16 May 2020. This name is given to the country of Thailand.

S76. Ans.(c)
Sol. a**a**bc**d** / a**b**bcd / a**b**ccd / **a**bcd**d**

S77. Ans.(c)
Sol. The author of the famous Bengali novel "Prothom Protishruti" is eminent writer Ashapurna Devi.

S78. Ans.(c)
Sol. Oracle is a database management system developed by Oracle Corporation. It is used for managing and storing data as well as creating and maintaining databases. Examples of Operating System are DOS, Windows and Linux.

S79. Ans.(b)
Sol. $\left(999\frac{1}{7} + 999\frac{2}{7} + 999\frac{3}{7} + 999\frac{4}{7} + 999\frac{5}{7} + 999\frac{6}{7}\right)$

$= 999 \times 6 + \left(\frac{1+2+3+4+5+6}{7}\right)$

$= 5994 + \frac{21}{7}$

$= 5994 + 3$

$= 5997$

S80. Ans.(b)
Sol. India won the first T-20 World Cup in 2007. This Indian team was led by MS Dhoni. India became the first team to win the T20 World Cup. India won this T-20 World Cup trophy by defeating Pakistan.

S81. Ans.(a)
Sol. West Bengal Government observes 1st September as Police Day.

S82. Ans.(d)
Sol. Let B gets = Rs. x
A gets = (x + 40)
C gets = Rs. (x +40 +30) = Rs. (x + 70)
ATQ,
x + (x +40) + (x + 70) = 710
➜ 3x + 110 = 710
➜ 3x = 600
➜ x = Rs. 200
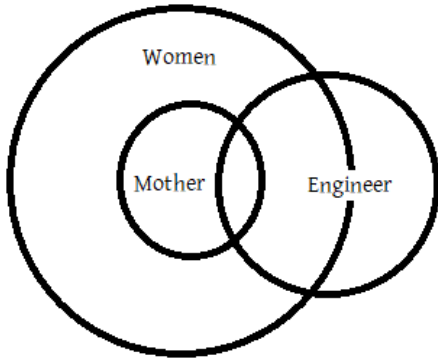C's share = Rs. (x + 70)= Rs. (200+ 70)= 270

S83. Ans.(d)
Sol. Autobiography of APJ Abdul Kalam is 'Wings of Fire'. It has been published in 13 languages namely Hindi, Bengali, Telugu, Tamil, Kannada, Malayalam, Odia, Marathi, and Gujarati.

S84. Ans.(b)
Sol.

S85. Ans.(b)
Sol. Let number be x
ATQ,
$x \times \frac{25}{100} + 150 \times \frac{30}{100} = 75$
➔ $\frac{x}{4} + 45 = 75$
➔ $\frac{x}{4} = 30$
➔ x = 120

S86. Ans.(c)
Sol. Cotton is not a rabi crop. Crops which are grown in winter and harvested in summer are called rabi crops. Examples are pulses, mustard and wheat. Wheat, gram and barley are some rabi crops grown in India.

S87. Ans.(c)
Sol. India has been elected as the President of the United Nations Security Council in August 2021. Japan is a non-permanent member of the UN Security Council in 2023.
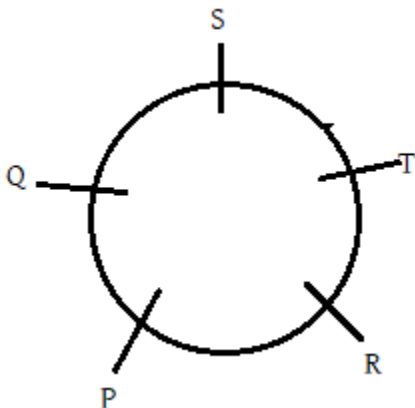
S88. Ans.(c)
Sol. Empties water in 3 minutes = $\frac{1}{3}$ part
Empties water in 1 minutes = $\frac{1}{3 \times 3}$ part
Empties water in $\frac{15}{2}$ minutes = $\frac{1}{9} \times \frac{15}{2} = \frac{5}{6}$ part

S89. Ans.(b)
Sol.

Then Q sits second to the left of R.

S90. Ans.(b)
Sol. Aedes mosquito spreads dengue disease. It is usually a tropical disease. Symptoms of dengue fever, such as fever, headache, vomiting, muscle and joint pain, and skin rash, usually appear within three to fifteen days of transmission of the virus through the bite of the Aedes mosquito.

S91. Ans.(a)
Sol. ROM stores data permanently on the computer. ROM stands for read-only memory. It continues to work even after the computer is turned off. ROM is non-volatile memory.

S92. Ans.(d)
Sol. A's capital = $\frac{1}{3}$
C's capital = x
B's capital = $\frac{1}{3}$ + x
ATQ,
x + $\frac{1}{3}$ + x = $\frac{2}{3}$
➔ 2x = $\frac{2}{3}$ – $\frac{1}{3}$
➔ x = $\frac{1}{3 \times 2}$ = $\frac{1}{6}$
C will get = $900 \times \frac{1}{6}$ = Rs. 150

S93. Ans.(b)
Sol. Onam is the name of the new harvest festival in Kerala. It is observed by Hindus. It is the official festival of Kerala state.

S94. Ans.(c)
Sol. Let common multiple be x
Smaller number be 5x
bigger number be 8x
ATQ,
8x – 5x = 69
➔ 3x = 69
➔ x = 23
bigger number = 8 × 23 = 184

S95. Ans.(d)
Sol. Reena > Sunita
Shravani > Namita
Shravani > Sunita
Kakali > Shravani
All the terms of the question imply that
Kakali >Reena/Shravani >Reena/Shravani > Namita > Sunita
There is not enough information to determine their age. So it is not clear who is in the middle.

S96. Ans.(a)
Sol. The pledge of 'Purna Swaraj' was taken at the Lahore Session of the Indian National Congress. At the request of Gandhiji, Pandit Jawaharlal Nehru, a young leader of the Congress, was elected as the President of this session.

S97. Ans.(b)
Sol. Let Son's age be = x years
Father's age be = 6x years
ATQ,
3 (x + 6) = 6x + 6
➔ 3x + 18 = 6x + 6
➔ 6x – 3x = 18 – 6
➔ x = 4
Father's age = 6 × 4 = 24 years

S98. Ans.(d)
Sol. Pascal is a unit of pressure in the SI system. Units of energy are arg, joule and calorie.

S99. Ans.(c)
Sol. 16 * 4 * 5 * 14 * 6
By checking the symbols of the options in this question, the equation is correctly matched by the symbols of option (c).
16 ÷ 4 × 5 = 14 + 6
➔ 4 × 5 = 20
➔ 20 = 20

S100. Ans.(d)
Sol. The official language of the Gupta Empire was Sanskrit. The local language of this empire was Prakrit. The real founder of this empire was Chandragupta I.