STAFF SELECTION COMMISSION
Multi Tasking (Non-Technical) Staff

SOLVED PAPER

(5th October 2021: Shift-1)

Time Allotted- 100 Minutes   **Max marks-** 100

Important Instructions:-
⇨ This paper contains 100 questions which are divided into 4 sections and each section contains 25 questions.
  ✓ General English
  ✓ General Intelligence & Reasoning
  ✓ Numerical Aptitude
  ✓ General Awareness
⇨ There will be 1 mark for each correct answer and also there will be a negative marking of 0.25 for each wrong answer.
⇨ Each question is compulsory to attempt and there will be no negative marking for unattempted questions.

General English

1. Select the incorrectly spelt word.
   1. dealer   **2.** hesitete   **3.** queer   **4.** obvious

2. Select the most appropriate option to fill in the blank.
   Today, banking in a seamless world _____ a distinct reality.
   1. was   **2.** have   **3.** is   **4.** are

3. Select the most appropriate one-word substitution for the given words.
   One who interferes in the affairs of others, often for selfish reasons
   1. stranger   **2.** interpreter   **3.** interloper   **4.** foreigner

4. Select the most appropriate meaning of the given idiom.
   To get on the nerves
   1. To irritate   **3.** To have an illness
   2. To give medicine   **4.** To soothe

5. Select the most appropriate option to substitute the underlined segment in the given sentence. If there is no need to substitute it, select 'No substitution required'.
   During the winter months the bears go without food <u>by nearly</u> six to seven months.
   1. No substitution required   **3.** from almost
   2. for quite   **4.** for almost

6. Select the incorrectly spelt word.
   1. edible   **2.** meddle   **3.** condition   **4.** outhority

7. Select the most appropriate synonym of the given word.
   PROTEST (v.)
   1. favour   **2.** support   **3.** assist   **4.** object

8. Select the most appropriate option to fill in the blank.
   The _____ for a vaccine could take up to a year.
   1. search   **2.** chase   **3.** pursuit   **4.** track

9. Select the most appropriate option to fill in the blank.
   I hope your parents_____ soon.
   1. are recovering   **3.** should recover
   2. recover   **4.** are recover

10. Select the most appropriate option to fill in the blank.
   Many _____ tales evoke the memory of Akbar and Birbal.
   1. populist   **2.** populated   **3.** populous   **4.** popular

11. Identify the segment in the sentence which contains a grammatical error.
   Have you decided what you want to become when you grown up.
   1. what you want   **3.** have you decided
   2. when you grown up   **4.** to become

12. Identify the segment in the sentence which contains a grammatical error.
   Seldom has the discoveries of the world's greatest discoverers, like Copernicus or Galileo, have been forgotten.
   1. seldom has the discoveries
   2. been forgotten
   3. of the world's greatest discoverers
   4. like Copernicus or Galileo

13. Select the most appropriate meaning of the given idiom.
   By the same token
   1. In the same bus   **3.** Use the same password
   2. Use the same ticket   **4.** In the same way

14. Select the most appropriate synonym of the given word.
   INDULGENCE
   1. leniency   **3.** accuracy
   2. attentiveness   **4.** diligence

15. Identify the segment in the sentence which contains a grammatical error.
   We do hope you are enjoy this online course in art and craft.
   1. this online course   **3.** in art and craft
   2. We do hope   **4.** you are enjoy

16. Select the most appropriate ANTONYM of the given word.
   NARROW
   1. tight   **2.** wide   **3.** firm   **4.** solid

17. Select the most appropriate option to substitute the underlined segment in the given sentence. If there is no need to substitute it, select 'No substitution required'.
   I <u>can't live</u> at a place which is far from the sea.
   1. hasn't lived   **3.** can't lived
   2. no substitution required   **4.** couldn't being live

18. Select the most appropriate one-word substitution for the given group of words.
   Restore (someone) to health or normal life after imprisonment, addiction, or illness
   1. rehabilitate   **2.** reinstate   **3.** renovate   **4.** refurbish

19. Select the most appropriate antonym of the given word.
    SLY
    1. thick   2. stiff   3. honest   4. slow
20. Select the most appropriate option to substitute the underlined segment in the given sentence. If there is no need to substitute it, select 'No substitution required'.
    There are many birds in the verandah today. Hema, please <u>feed those</u>.
    1. feed them   3. fed those
   2. fed them   4. No substitution required

Comprehension:

In the following passage some words have been deleted. Fill in the blanks with the help of the alternatives given. Select the most appropriate option for each blank.

One day while the magistrate was walking (1)_____ a market he saw a crowd outside a poultry shop. (2)_____ enquiring what the matter was (3)_____ learnt that a peasant had accidentally (4)_____ a heavy sack on a chicken, (5)_____ it to death.

21. Select the most appropriate option to fill in blank number 1.
    1. along   2. through   3. over   4. aside
22. Select the most appropriate option to fill in blank number 2.
    1. So   2. Whereas   3. How   4. On
23. Select the most appropriate option to fill in blank number 3.
    1. him   2. she   3. they   4. he
24. Select the most appropriate option to fill in blank number 4.
    1. dropped   2. filled   3. selected   4. picked
25. Select the most appropriate option to fill in blank number 5.
    1. creeping   3. covering
    2. crushing   4. crumbling

General Intelligence and Reasoning

26. 'Sewing' is related to 'Tailor' in the same way as 'Painting' is related to '_____'.
    1. Paint   2. Painter   3. Printer   4. Canvas
27. Abhay's uncle sent him some mangoes from Konkan. If he was to eat some specific number of mangoes every day, they would have lasted for 60 days. But, Abhay's cousin Rajiv came to spend the holidays with him and both of them finished the mangoes in 36 days. If Rajiv alone was to eat the mangoes, then how many days would they have lasted?
    1. 72   2. 90   3. 180   4. 120
28. Which number will replace the question mark (?) in the following number series?
    128, 116, 126, 118, 124, ?
    1. 118   2. 120   3. 122   4. 124
29. A paper is folded and cut as shown in the following figures. How will it appear when unfolded?
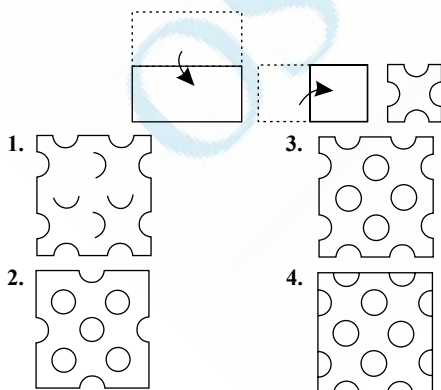
30. If in a certain code language, FEVERISH is coded as 29 and COUNSEL is coded as 98, then how will MUTATED be coded as in the same code language?
    1. 48   2. 80   3. 92   4. 84
31. Select the number-pair in which the numbers are related in the same way as are the numbers of the following pair.
    144 : 168
    1. 64 : 82   2. 169 : 159   3. 121 : 143   4. 81 : 100
32. Select the option word that is related to the third word in the same way as the second word is related to the first word.
    Villain : Hero : : Devil : ?
    1. Virtuous   2. Angel   3. God   4. Divine
33. Two statements are given, followed by two conclusions numbered I and II. Assuming the statements to be true, even if they seem to be at variance with commonly known facts, decide which of the conclusions logically follow(s) from the statements.
    Statements:
    Some Pans are Bottles.
    All Bottles are Mugs.
    Conclusions:
    I. All Mugs are Bottles.
    II. Some Mugs are Pans.
    1. Neither conclusion I nor II follows.
    2. Only conclusion I follows.
    3. Only conclusion II follows.
    4. Both conclusions I and II follow.
34. In the morning prayer of a school, Chanchal was 8th from the front, while Prince was 11th from the back in the same row. If they swap their positions, Chanchal becomes 22nd from the front. What is the number of students in the row?
    1. 32   2. 30   3. 31   4. 33
35. Which letter-cluster will replace the question mark (?) in the following letter-cluster series?
    VSP, NKH, FCZ, ?
    1. WUS   2. XVS   3. XUR   4. WTQ
36. Select the set in which the numbers are related in the same way as are the numbers of the following set.
    (4, 3, 35)
    1. (8, 13, 110)   3. (7, 12, 95)
    2. (6, 9, 65)   4. (9, 18, 153)
37. In a certain code language, if GLOWING is written as GGILNOW, then how will OBVIOUS be written as in the same code language?
    1. IVBOSUO   3. BIOOSUV
    2. VUSOOIB   4. BOIVUOS
38. Identify the option in which the following figure is embedded (rotation is NOT applicable).
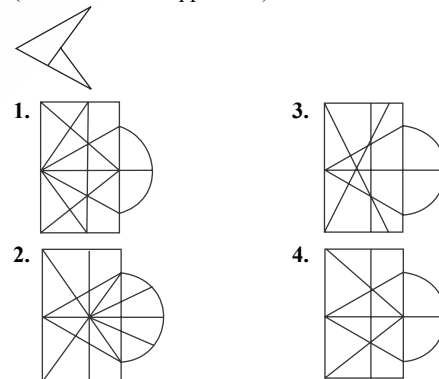
39. If in a certain code language, PETITION is coded as 75292965, and GERMINATE is coded as 759495125, then how will COMPLEX be coded as in the same code language?
1. 3647356   **2.** 3536254   **3.** 4647256   **4.** 4514776

40. 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.
FLUIDITY : YUTLIIFD : : IMPROVISE : ?
1. ORPMIESIV   **3.** VRPSOIIME
2. PMIVORESI   **4.** VSRPOMIIE

41. Which two digits can be interchanged so as to balance the given equation?
$87 \times 2 - 65 + 182 \div 38 = 155$
1. 2 and 8   **2.** 5 and 7   **3.** 6 and 2   **4.** 8 and 6

42. Six persons are posing before a camera for a group photograph. P is standing exactly between N and S, while Q is to the immediate left of N. O is at the extreme right, while R is to his immediate left. Who is to the exact right of S?
1. P   **2.** N   **3.** R   **4.** Q

43. Which number will replace the question mark (?) in the following number series?
6, 11, 18, 27, 38, ?
1. 51   **2.** 49   **3.** 54   **4.** 53

44. Select the correct mirror image of the given figure when the mirror is placed to the right side of the figure.

1.   **3.**

2.   **4.**

45. In a certain code language, if SMOOTHIE is written as UKQMVFKC, then how will HEAVENLY be written as in the same code language?
1. FCYTCLJW   **3.** JGCXGPNA
2. FGYXCPJA   **4.** JCCTGLNW

46. Select the correct sequence of mathematical signs to sequentially replace the * signs so as to balance the given equation.
46 * 72 * 18 * 27 * 135 = 19
1. −, ×, ÷, +   **2.** ×, ÷, −, +   **3.** +, ÷, ×, −   **4.** ÷, −, +, ×

47. Select the figure that will replace the question mark (?) in the following figure series.
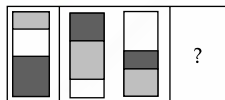
1.   **2.**   **3.**   **4.**

48. Two statements are given, followed by two conclusions numbered I and II. Assuming the statements to be true, even if they seem to be at variance with commonly known facts, decide which of the conclusions logically follow(s) from the statements.
**Statements:**
All Cups are Plates.
Some Plates are Saucers.
Conclusions:
I. All Plates are Cups.
II. Some Cups are Saucers.
1. Both conclusions I and II follow.
2. Only conclusion II follows.
3. Neither conclusion I nor II follows.
4. Only conclusion I follows.

49. From the given options select the Venn diagram that best illustrates the relationship between the following classes:
Pencil, Sharpener, Lead
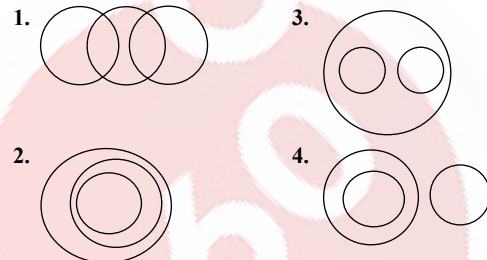
**50.** Identify the option figure that completes the pattern.
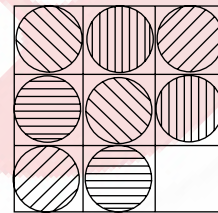
1.   **2.**   **3.**   **4.**

Numerical Aptitude

51. If x and y are two numbers having opposite signs, and $x^2 : y^2 = 16:81$, then what is the value of $\dfrac{3x + 4y}{2x - 3y}$?
1. $\dfrac{12}{25}$ **2.** $-\dfrac{27}{40}$ **3.** $-\dfrac{24}{35}$ **4.** $\dfrac{48}{35}$

52. The value of $1\dfrac{4}{11} \div \left\{ \left[\dfrac{11}{80} \div \dfrac{3}{4}\left(\dfrac{1}{4} - \dfrac{1}{3} \times \dfrac{1}{5} \right) \div 1\dfrac{5}{6} \right] + \dfrac{9}{11} \right\}$ is:
1. 1   **2.** 5   **3.** 4   **4.** 10

53. In a $\triangle ABC$, $\angle BAC = 90°$, AD is drawn perpendicular from A on BC. Which among the following is the mean proportional between BD and BC?
1. AD **2.** AB **3.** CD **4.** AC

54. Two containers have mixtures of milk and water, respectively, in the ratios 3 : 2 and 6 : 5. In what ratio should the contents be mixed so that the ratio of milk to water in the final mixture is 4 : 3?
1. 6 : 13   **2.** 9 : 14   **3.** 10 : 11   **4.** 5 : 8

55. The area of a square is S, and that of the square formed by joining the mid-points of the given square is A. the value of $\dfrac{A}{S}$ is equal to:

1. 0.25 **2.** 0.5 **3.** 0.125 **4.** 1.25

56. What is the median of the distributon: 34, 22, 13, 11, 27, 19, 25, 16?

1. 20.5 **2.** 21.5 **3.** 19 **4.** 22

57. The speed of wind during a strom is 10^5 mm per second. How long (in seconds) will it take a dust practicle suspended in air to travel 1 km?

1. 1 **2.** 0.1 **3.** 10 **4.** 0.01

58. Two friends, one of whom is thrice as efficient as the other, working together, can complete a work in 6 days. In how many days will the less efficient among the two be able to complete twice the quantum of work?

1. 24 **2.** 36 **3.** 45 **4.** 12

59. Due to some crisis, some people from State A migrated to State B and thereby the population of the second State increased by 19.96%. However, at a later stage, all of them returned to State A. Then by what percentage (correct up to two decimal places) did the population of State B decrease?

1. 19.96 **2.** 16.64 **3.** 18.24 **4.** 17.54

60. A retailer opens her outlet on all seven days of the week. It is observed that her average sales for Saturdays and Sundays combined is ₹300, and ₹200 for the remaining five days combined. For a month starting on a Saturday, it was found that the total sales were ₹7,000. Which among the following months it could be?

1. March **2.** April **3.** January **4.** February

61. The number of students taking admission in first year of a degree course at a college in areas of Social Sciences in 2012 were as follows: Economics (S1) - 96, Psychology (S2) - 84. History (S3) - 160, Political Science (S4) - 120, Sociology (S5) - 125. The break-up of students in different subjects has been presented through the given pie chart. Study the pie chart and answer the question that follows.

The number of students taking admission in the First Year of Degree Course at a college in areas of Social Sciences in 2012
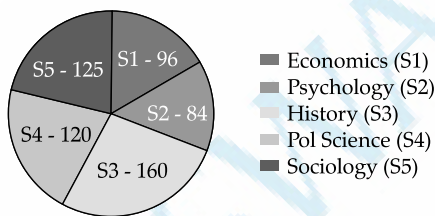
In 2013, 20% of the sociology students, 25% of the Political Science students and one-sixth of the Economics students shifted to another college, and the number of history students got increased by 10% due to students shifting from other colleges. Over and above this. 10% of the remaining sociology students and one-seventh of the psychology students got transferred to economics. What will be the central angle (to the nearest degree) of the sector corresponding to history in the pie chart representing the break-up in 2013?

1. 112 **2.** 120 **3.** 102 **4.** 126

62. The marked price of an article is ₹400. A shopkeeper sells it by giving two successive discounts of 12% and 20% on its marked price. If the earns a profit of 10%, then the cost price of the article is:

1. ₹250 **2.** ₹260 **3.** ₹256 **4.** ₹268

63. Consider ten consecutive odd numbers starting from 5. Multiply each of them, except the first and the second, with three. What will be the average of the ten numbers so formed?

1. 39.6 **2.** 39 **3.** 42 **4.** 38.4

64. A container in the shape of a right circular cone, whose radius and depth are equal, gets completely filled by 128000 spherical droplets, each of diameter 2 mm. What is the radius (in cm) of the container?

1. 6 **2.** 4 **3.** 8 **4.** 2

65. Study the given pie chart and answer the question that follows. The pie chart shows the distribution (degree-wise) of the number of players who play five sports A, B, C, D, and E (assuming each plays only one sport).
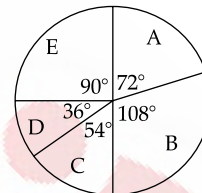
If the number of players who play sport C is 162, then the difference between the total number of players who play sports A and E is:

1. 72 **2.** 36 **3.** 90 **4.** 54

66. If I gain ₹124% by selling an item for 1,232, then what would be my gain or loss percentage if I sell it for ₹572?

1. 6% gain **2.** 6% loss **3.** 4% gain **4.** 4% loss

67. Two men A and B, each working alone by working 12 hours per day, can complete a work in 20 days. For execution of the work, it was decided that A and B would be working for 8 and 6 hours per day, respectively, on alternate days starting with A. If it takes x days and y hours to complete the work then (x, y) is:

**1.** (34, 2) **2.** (33, 2) **3.** (34, 4) **4.** (33, 4)

68. Simplify $\dfrac{\left(3 + \dfrac{3}{2} \div 6\dfrac{1}{2} \times \dfrac{1}{3}\right) \text{ of } 4\dfrac{1}{3}}{\left(-\dfrac{8}{3} \div 2\right)}$

1. 10 **2.** $-\dfrac{30}{13}$ **3.** −10 **4.** $\dfrac{40}{3}$

69. How much time (in seconds) does the earth take to rotate through an angle of 135 degrees about its axis?

1. 21600 **2.** 28800 **3.** 32400 **4.** 33600

70. A fruit vendor brings 1092 apples and 3432 oranges to a market. He arranges them in heaps of equal number of oranges as well as apples such that every heap consists of the maximum possible number of the fruits. What is this number?

1. 78 **2.** 156 **3.** 312 **4.** 39

71. A salesperson, with a view to promote sales of an item, applies the principle of simple interest. He declares that 300 pieces of the item can be obtained immediately against cash payment, but a customer will get only 200 pieces of the item if he defers the payment for a year. What is the rate percentage of interest on the whole?

1. 30 **2.** 25 **3.** 50 **4.** 40

72. A sum of ₹6,400 invested on the basis of yearly compounding of interest, grows to ₹7,056 in two years. What is the percentage rate of intersts?

1. 6.25 **2.** 4 **3.** 7.5 **4.** 5

73. The total surface area of a solid right circular cylinder is 1617 cm². If the diameter of its base is 21 cm, then what is its volume (in cm³)? (Take $\pi = \frac{22}{7}$)
    1. 5324   2. 3971   3. 4851   4. 5528

74. The cost of manufacturing an item was ₹24,000, and 20% of it was spent on packaging and its shipment to a retailer. The manufacturer made a profit of 50%, while the retailer incurred a loss of 20% in selling it to a customer. At what price (in ₹) was the item sold by the retailer?
    1. 32,400   2. 37,664   3. 35,268   4. 34,560

75. The number of students taking admission in the First Year of Degree Course at a college in areas of Social Sciences in 2012 were as follows: Economics (S1) - 96, Psychology (S2) - 84, History (S3) - 160, Political Science (S4) - 120, Sociology (S5) - 125. The break-up of students in different subjects has been presented through the given pie chart.

    Study the pie chart and answer the question that follows.

    The number of students taking admission in the First Year of Degree Course at a college in areas of Social Sciences in 2012
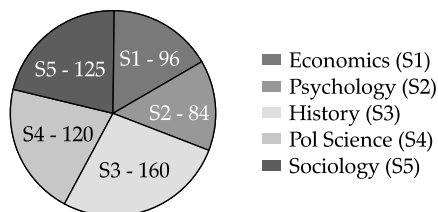
    The total number of students in economics and Psychology is what percentage of the total number of students in history, political science and sociology (correct to two decimal places)?
    1. 33.33   2. 46.48   3. 44.44   4. 22.28

General Awareness

76. Who was made the Nawab of Bengal following the Battle of Plassey?
    1. Mir Jafar   3. Sirajuddaulah
    2. Alivardi Khan   4. Mir Qasim

77. The Kodava community of Coorg worships weapons during the _____ festival.
    1. Madai   3. Thaipusam
    2. Kailpodh   4. Bhagoriya

78. How many colours does sunlight consist of?
    1. Three   2. Two   3. Seven   4. Five

79. The Kamakhya Temple is located in _____.
    1. Guwahati   2. Kohima   3. Imphal   4. Agartala

80. The monthly maintenance amount of Rs. _____ payable by children to parents, set by the Maintenance and Welfare of Parents and Senior Citizens Bill, 2007, was removed by the Maintenance and Welfare of Parents and Senior Citizens (Amendment) Bill, 2019.
    1. 10,000   2. 5,000   3. 12,000   4. 8,000

81. Which of the following concepts implies that sustainable development should take a holistic approach towards notions of progress and give equal importance to non economic aspects of wellbeing?
    1. Gross Domestic Product   3. Gross National Happiness
    2. Gross National Product   4. Net National Product

82. Which of the following books is written by Rajendra Prasad?
    1. India Divided
    2. An Autobiography: Towards Freedom
    3. The Discovery of India
    4. Glimpses of World History

83. Which of the following books was written by James Mill, a Scottish economist, in 1817?
    1. Poverty and Un-British Rule in India
    2. A Passage to India
    3. The History of British in India
    4. The Great Mutiny

84. What was India's rank in the Human Development Index-2019 released by the United Nations Development Programme (UNDP)?
    1. 141   2. 132   3. 112   4. 129

85. Moved by the Swadeshi Movement, _____ painted his famous image of Bharat Mata portraying her as an ascetic figure.
    1. Satyendranath Tagore   3. Jyotirindranath Tagore
    2. Abanindranath Tagore   4. Dwijendranath Tagore

86. Hafiz (Hafez) was a _____ century poet whose collection of poems is known as 'Diwan' or 'Diwan-e-Hafiz'.
    1. 14th   2. 15th   3. 16th   4. 17th

87. Which of the following diseases is NOT caused by ingesting polluted water?
    1. Typhoid   3. Rabies
    2. Cholera   4. Meningitis

88. Who is the first Indian cricketer to have twin centuries in his maiden appearance as a Test opener?
    1. Shikhar Dhawan   3. Virat Kohli
    2. MS Dhoni   4. Rohit Sharma

89. Zinc + Sulphuric acid → Zinc sulphate + _____
    1. Hydrogen   2. Nitrogen   3. Carbon   4. Chlorine

90. Who among the following is a professional football player?
    1. Boris Gelfand   3. Peter Svidler
    2. Sadio Mane   4. Magnus Carlsen

91. Which of the following is not a natural acid-base indicator?
    1. Geranium flowers   3. Petunia flowers
    2. Red cabbage leaves   4. Thyme leaves

92. The Buxa Tiger Reserve in West Bengal is threatened by the ongoing:
    1. dolomite mining   3. magnetite mining
    2. copper mining   4. hematite mining

93. Which of the following princely states was annexed by the British under the pretext of 'misgovernment of the Nawab'?
    1. Udaipur   2. Awadh   3. Nagpur   4. Satara

94. Which of the following statements about the Reserve Bank of India is INCORRECT?
    1. In 1931, the Indian Central Banking Enquiry Committee revived the issue of the establishment of the Reserve Bank of India as the Central Bank for India.
    2. The Reserve Bank of India commenced operations in 1935.
    3. In 1929, the Hilton Young Commission recommended the establishment of a central bank to be called the 'Reserve Bank of India'.
    4. The Reserve Bank of India Act was enacted in 1934.

95. As per the Companies Act, 2013, dividend declared by a company but not paid or claimed within _____ days from the date of declaration is to be transferred to the Unpaid Dividend Account.
    1. 120   2. 60   3. 30   4. 90

96. Which of the following is a snow-fed river?
   1. Yamuna   **2.** Godavari **3.** Kaveri   **4.** Narmada
97. Where was the first jute mill set up at Kolkata in 1855?
   1. Sreerampur   **2.** Mesra   **3.** Howrah   **4.** Rishra
98. Which of the following Acts was enacted in British India in the year 1878?
   1. Indian Contract Act
   2. Transfer of Property Act
   3. Vernacular Press Act
   4. East India Stock Dividend Redemption Act

99. Which of the following statements is INCORRECT?
   1. Pure metals have a shining surface.
   2. Metals are good conductors of heat.
   3. Metals have high melting points.
   4. Lead and mercury are best conductors of heat.
100. _____, a festival of the Galo tribe of Arunachal Pradesh, is celebrated in April every year.
   1. Doljatra   **3.** Mopin
   2. Ali Ai Ligang   **4.** Me Dum Me Phi

Answer Key

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

Answers with Explanations

1.   **Option (2) is correct.**
   The incorrect spelling is 'hesitete'; the actual spelling is 'hesitate' (to waver).
2.   **Option (3) is correct.**
   Today, banking in a seamless world is a distinct reality. By rule, if the subject is singular, then a singular helping verb is used. In the given sentence, 'a seamless world' is the subject that is singular; so the verb is singular 'is' and in the present tense (as indicated by 'today').
3.   **Option (3) is correct.**
   An interloper is a person who becomes involved in a place or situation where they are not wanted or are considered not to belong. An interpreter is a person whose job is to change what someone is saying into the words of another language. A foreigner refers to a person born in or coming from a country other than one's own. While stranger is any person whom one does not know.
4.   **Option (1) is correct.**
   The idiom 'to get on the nerves' means to become extremely annoying to someone. Example: the shrill cries of the boy inside the movie theatre got on my nerves. to irritate.
5.   **Option (4) is correct.**
   During the winter months the bears go without food for almost six to seven months. Here, 'by nearly' will be replaced by 'for almost'. Both 'almost' and 'nearly' connote the degree of/ extent of. But the preposition 'for' denotes a period of time. So 'for' is appropriate in the given context.
6.   **Option (4) is correct.**
   'outhority' is incorrectly spelt; it should have been 'authority' (the power or right to give orders, make decisions).
7.   **Option (4) is correct.**
   'Protest' is a strong complaint expressing disagreement. All options, except 'object' are antonyms of protest. So, object is the synonym.
8.   **Option (1) is correct.**
   The search for a vaccine could take up to a year. The phrasal verb 'search for' means ' to look for something that is missing, to examine somebody/something carefully because you are looking for something'.
9.   **Option (2) is correct.**
   I hope your parents recover soon. 'Recover' means 'to become well again after illness'. The sentence does not need any helping verb.
10.   **Option (4) is correct.**
   Many popular tales evoke the memory of Akbar and Birbal. 'Popular' means pertaining to all or most of the people, belonging to or used by the common people'. 'Populated' means inhabited; 'Populous' implies 'densely populated'. 'Populist' refers to 'a member of a political party claiming to represent the common people'.
11.   **Option (2) is correct.**
   'Have you decided what you want to become when you grown up?' 'you grown up' will be replaced by 'you grow up'. This is so because, we use simple present tense for future action, when something is a part of a fixed timetable and pre-planned. So the past participle form is incorrect.
12.   **Option (1) is correct.**
   Seldom have the discoveries of the world's greatest discoverers, like Copernicus or Galileo, been forgotten. When the helping verb is used before the subject it is called inversion. The given sentence is an example. 'The discoveries' is plural. Hence, 'have' will substitute 'has'.
13.   **Option (4) is correct.**
   The idiom 'by the same token' means in the same way or for the same reason. 'in the same way'.
14.   **Option (1) is correct.**
   Indulgence means the attitude of allowing yourself or someone else to have something enjoyable, or the act of having something enjoyable. So 'leniency' is correct.
15.   **Option (4) is correct.**
   We do hope you are enjoying this online course in art and craft.' Here, 'you are enjoying' will replace 'you are enjoy'. The present continuous tense is appropriate as it is used to denote the action that is ongoing or occurring in that current moment. The structure is: is/are/am + verb+ -ing.

16. Option (2) is correct.
The word 'narrow' means 'of small width in relation to length'. So 'wide' is the antonym.

17. Option (2) is correct.
I can't live at a place which is far from the sea. This sentence is grammatically correct. No substitution required.

18. Option (1) is correct.
The most appropriate word for the given group of words is 'rehabilitate'. 'Rehabilitate' means 'to help somebody to live a normal life again after an illness, being in prison, etc'. 'Reinstate' means 'to give someone back their previous job or position, or to cause something to exist again'. 'Refurbish' means 'to clean and decorate a room, building, etc. to make it more beautiful'. 'Renovate' implies repairing an old building and put it back into good condition.

19. Option (3) is correct.
'Sly' means showing a cunning and deceitful nature. So the antonym is definitely 'honest'.

20. Option (1) is correct.
There are many birds in the verandah today. Hema, please feed them. So, 'feed them' should be used instead of 'feed those'. We need an object to the clause, and 'them' is used to refer to the object of a clause.

21. Option (2) is correct.
One day while the magistrate was walking through a market. The preposition 'through' means from one end or side of something to the other'. As a preposition, along means 'in a line next to something long and thin', e.g. a road, a path. 'Over' and 'aside' are absurd.

22. Option (4) is correct.
On enquiring what the matter was … 'on enquiring' means 'having a wish or desire to know something'.

23. Option (4) is correct.
On enquiring what the matter was he learnt that… The subject of the sentence is 'he'. The blank requires a subject, as it is followed by a verb (learnt) and an object (a peasant had accidentally).

24. Option (1) is correct.
a peasant had accidentally dropped a heavy sack on a chicken. The adverb 'accidentally' will qualify such a verb that is related to an accidental approach. So 'dropping' a heavy sack is accidental.

25. Option (2) is correct.
a peasant had accidentally dropped a heavy sack on a chicken it to death. Crushing to death placing heavy weights upon a person that it results in death. 'Crumbling' means to break into small pieces. Creeping is developing, or moving slowly or gradually.

26. Option (2) is correct.
Given that: 'Sewing' is related to 'Tailor' in the same way as 'Painting' is related to '_____'.
As Sewing is the work of a tailor.
Similarly, painting is the work of a painter.

27. Option (2) is correct.
Given that:
I) Abhay can eat the mangoes in 60 days
II) Abhay and Rajiv together can eat the mangoes in 36 days.
Total work = LCM of 60 days and 36 days
Total work = 180
As total work = efficiency × days
⇒ Efficiency = Total work/days
Let, Abhay's efficiency = A
And Rajiv's efficiency = B
Efficiency of Abhay = 180 ÷ 60 = 3
Efficiency of Abhay and Rajiv = 180 ÷ 36 = 5
The efficiency of Rajiv = Efficiency of Abhay and Rajiv – Efficiency of Abhay
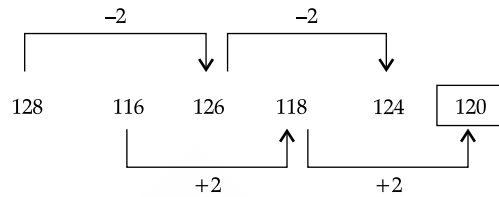
So, Efficiency of Rajiv = 5 – 3 = 2
Hence, Days = Total work ÷ efficiency
= 180 ÷ 2 Days = 90.

28. Option (2) is correct.
Given series:
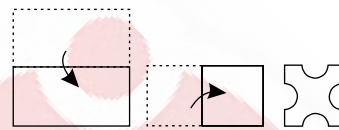128, 116, 126, 118, 124, ?
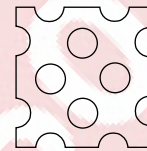The pattern followed here is:

Hence, 120 is the missing number.

29. Option (3) is correct.
Given figure:

Follow the symmetry and pattern.

30. Option (1) is correct.
Given that:
FEVERISH is coded as 29
The pattern followed here is:
Addition of positional values of the letters and then Reverse the resultant number.

F(6) E(5) V(22) E(5) R(18) I(9) S(19) H(8)

6 + 5 + 22 + 5 + 18 + 9 + 19 + 8 = 92

Reverse of 92 → 29
And, COUNSEL is coded as 98,

C(3) O(15) U(21) N(14) S(19) E(5) L(12)

3 + 15 + 21 + 14 + 19 + 5 + 12 = 89

Reverse of 89 → 98
Similarly, MUTATED can be coded as:

M(13) U(21) T(20) A(1) T(20) E(5) D(4)

13 + 21 + 20 + 1 + 20 + 5 + 4 = 84

Reverse of 84 → 48

31. Option (3) is correct.
Given that:
144 : 168
The pattern followed here is:
1st number : $[(\sqrt{\text{1st number}}) + 1]^2 - 1$
So,
144 : $[(\sqrt{144}) + 1]^2 - 1$
144 : $[12 + 1]^2 - 1$

144 : [169 – 1]
144 : 168
Similarly,
Upon checking option 3, we get
121 : 143
121 : [($\sqrt{121}$) + 1]^2 – 1
121 : [11 + 1]^2 – 1
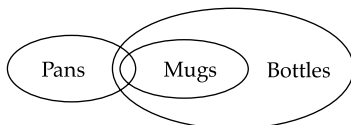121 : [144 – 1]
121 : 143

32. Option (2) is correct.
Given that:
Villain : Hero : : Devil : ?
The pattern followed here is: The antonym word of villain is hero. Similarly, the antonym word of devil is angel.

33. Option (3) is correct.
As per the statements, following venn diagram can be made:

I. All Mugs are Bottles. —False (It is possible but not definite)
II. Some Mugs are Pans. —True (because some pans are bottles and all bottles are mugs so some mugs are also pans)
Hence, only conclusion II follows.

34. Option (1) is correct.
Given that:
In the morning prayer of a school, Chanchal was 8th from the front, while Prince was 11th from the back in the same row.
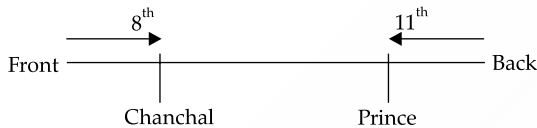
If they swap their positions, Chanchal becomes 22nd from the front.
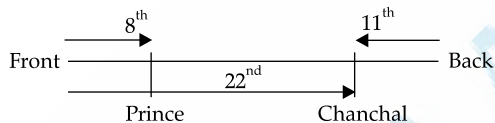
Hence, the number of students in the row = 22 + 11 – 1 = 32

35. Option (3) is correct.
Given that:
VSP, NKH, FCZ, ?
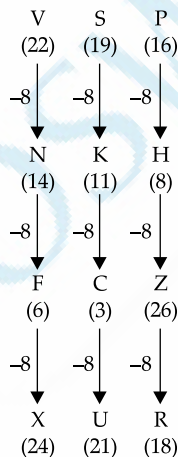
Hence, XUR is the correct answer.

36. Option (3) is correct.
The pattern followed here is: (1st number +2nd number) × 5 = 3rd number

In
(4, 3, 35)
⇒ (4 + 3) × 5 = 35
⇒ (7) × 5 = 35
⇒ 35 = 35
Similarly,
In option 3
(7, 12, 95)
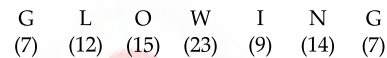⇒ (7 + 12) × 5 = 95
⇒ (19) × 5 = 95
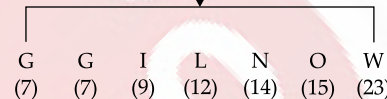⇒ 95 = 95

37. Option (3) is correct.
Given that:
GLOWING is written as GGILNOW
The pattern followed here is:

G	L	O	W	I	N	G
(7)	(12)	(15)	(23)	(9)	(14)	(7)

Alphabets are arranged in Ascending order

G	G	I	L	N	O	W
(7)	(7)	(9)	(12)	(14)	(15)	(23)

Similarly,
OBVIOUS can be written as

O	B	V	I	O	U	S
(15)	(2)	(22)	(9)	(15)	(21)	(19)

Alphabets are arranged in Ascending order

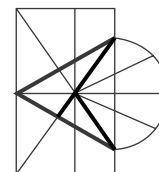| B	I	O	O	S	U	V
(2)	(9)	(15)	(15)	(19)	(21)	(22)
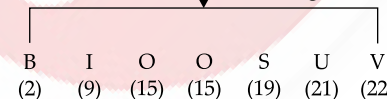
38. Option (2) is correct.
Given figure:

The embedded figure is highlighted in the figure of option 2 as below:

39. Option (1) is correct.
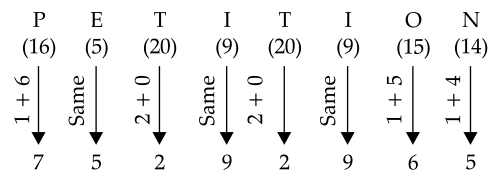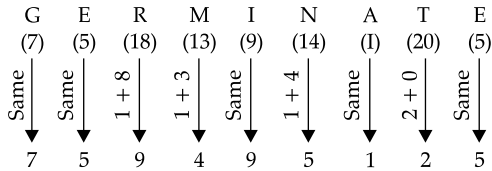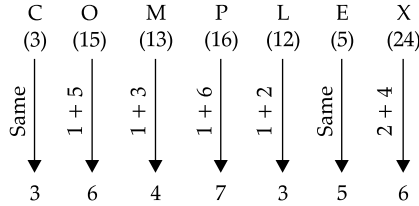Given that:
PETITION is coded as 75292965,
The pattern followed here is:

P	E	T	I	T	I	O	N
(16)	(5)	(20)	(9)	(20)	(9)	(15)	(14)
1 + 6	Same	2 + 0	Same	2 + 0	Same	1 + 5	1 + 4
7	5	2	9	2	9	6	5

And, GERMINATE is coded as 759495125,

G	E	R	M	I	N	A	T	E
(7)	(5)	(18)	(13)	(9)	(14)	(I)	(20)	(5)
Same	Same	1 + 8	1 + 3	Same	1 + 4	Same	2 + 0	Same
7	5	9	4	9	5	1	2	5

Similarly, COMPLEX can be coded as:

C	O	M	P	L	E	X
(3)	(15)	(13)	(16)	(12)	(5)	(24)
Same	1 + 5	1 + 3	1 + 6	1 + 2	Same	2 + 4
3	6	4	7	3	5	6

40. Option (4) is correct.

Given that:

FLUIDITY : YUTLIIFD : : IMPROVISE : ?

The pattern followed here is:

F	L	U	I	D	I	T	Y
(6)	(12)	(21)	(9)	(4)	(9)	(20)	(25)

Alphabets arranged in descending order

Y	U	T	L	I	I	F	D
(25)	(21)	(20)	(12)	(9)	(9)	(6)	(4)

Similarly,

I	M	P	R	O	V	I	S	E
(9)	(13)	(16)	(18)	(15)	(22)	(9)	(19)	(5)

Alphabets arranged in descending order

V	S	R	P	O	M	I	I	E
(22)	(19)	(18)	(16)	(15)	(13)	(9)	(9)	(5)
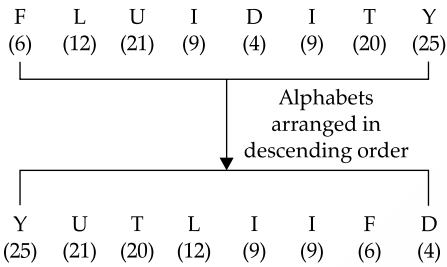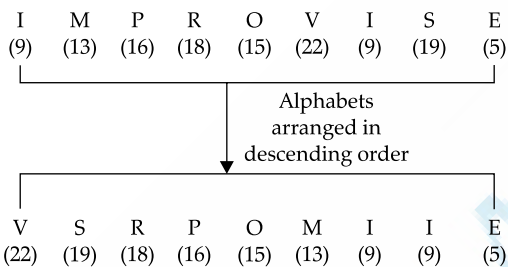
41. Option (1) is correct.

Given equation:

$87 \times 2 - 65 + 182 \div 38 = 155$

Upon checking option 1 and interchanging 2 and 8, we get

$27 \times 8 - 65 + 128 \div 32 = 155$
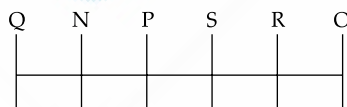
Applying BODMAS RULE, we get

$216 - 65 + 4 = 155$

$\Rightarrow 220 - 65 = 155$

$\Rightarrow 155 = 155$

Hence, it is the correct option.

42. Option (3) is correct.

Given that: P is standing exactly between N and S, while Q is to the immediate left of N. O is at the extreme right, while R is to his immediate left. The final sitting arrangement will be:
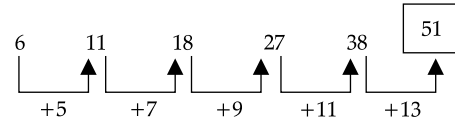
Q   N   P   S   R   O

Hence, R is to the exact right of S.

43. Option (1) is correct.

Given series:

6, 11, 18, 27, 38, ?

The pattern followed here is:

6   11   18   27   38   51
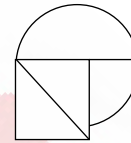
+5   +7   +9   +11   +13

Hence, 51 is the correct answer.

44. Option (1) is correct.

Given figure:

In mirror image left becomes right and right becomes left.
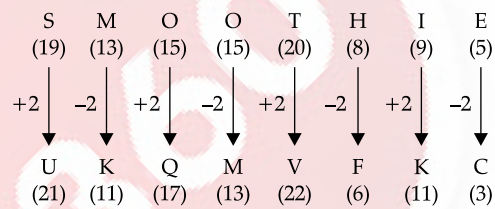
Hence, the required image is:
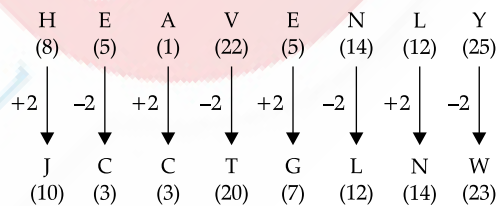
45. Option (4) is correct.

Given that:

SMOOTHIE is written as UKQMVFKC

The pattern followed here is:

S	M	O	O	T	H	I	E
(19)	(13)	(15)	(15)	(20)	(8)	(9)	(5)
+2	−2	+2	−2	+2	−2	+2	−2
U	K	Q	M	V	F	K	C
(21)	(11)	(17)	(13)	(22)	(6)	(11)	(3)

Similarly,

HEAVENLY can be written as

H	E	A	V	E	N	L	Y
(8)	(5)	(1)	(22)	(5)	(14)	(12)	(25)
+2	−2	+2	−2	+2	−2	+2	−2
J	C	C	T	G	L	N	W
(10)	(3)	(3)	(20)	(7)	(12)	(14)	(23)

46. Option (3) is correct.

Given that:

46 * 72 * 18 * 27 * 135 = 19

Upon checking option 3,

+, ÷, ×, −

46 * 72 * 18 * 27 * 135 = 19

After putting the signs, we get

$46 + 72 \div 18 \times 27 - 135 = 19$

Using BODMAS rule

$46 + 72 \div 18 \times 27 - 135 = 19$

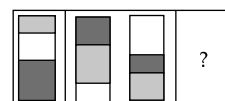$\Rightarrow 46 + 4 \times 27 - 135 = 19$

$\Rightarrow 46 + 108 - 135 = 19$

$\Rightarrow 154 - 135 = 19$

$19 = 19$

LHS = RHS

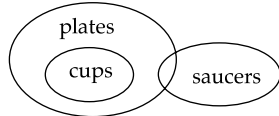**47. Option (2) is correct.**

Given image:

Follow the symmetry and the pattern.

48. Option (3) is correct.

As per the statements, following venn diagram can be made:

I. All Plates are Cups. ---- False (It is possible but not definite)
II. Some Cups are Saucers. -----False (It is possible but not definite)

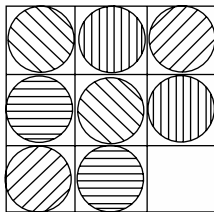Hence, neither conclusion I nor II follows.

49. Option (4) is correct.

Given : Pencil, Sharpener, Lead
As per the statements, following venn diagram best represents the relation of the given words.
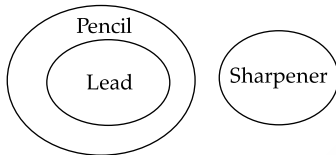
50. Option (1) is correct.

Given image:

Follow the symmetry and the pattern. Hence, the required image is:

51. Option (3) is correct.

$$\frac{x^2}{y^2} = \frac{16}{81} \quad \Rightarrow \frac{x}{y} = -\frac{4}{9}$$

$$(\because x \text{ and } y \text{ have opposite in sign})$$

$$\therefore \quad \frac{3x+4y}{2x-3y} = \frac{3(-4)+4(9)}{2(-4)-3(9)} = \frac{-12+36}{-8-27}$$
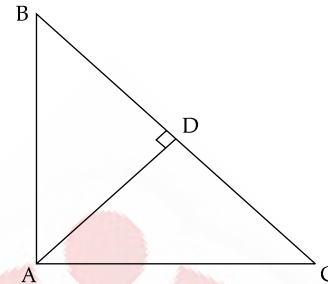
$$= \frac{24}{-35} = -\frac{24}{35}$$

52. Option (1) is correct.

$$1\frac{4}{11} \div \left\{ \left[\frac{11}{80} \div \frac{3}{4} \left(\frac{1}{4} - \frac{1}{3} \times \frac{1}{5} \right) \div 1\frac{5}{6} \right] + \frac{9}{11} \right\}$$

$$= \frac{15}{11} \div \left\{ \left[\frac{11}{80} \div \frac{3}{4} \left(\frac{1}{4} - \frac{1}{15} \right) \div \frac{11}{6} \right] + \frac{9}{11} \right\}$$

$$= \frac{15}{11} \div \left\{ \left[\frac{11}{80} \div \frac{3}{4} \left(\frac{11}{60} \right) \div \frac{11}{6} \right] + \frac{9}{11} \right\}$$

$$= \frac{15}{11} \div \left\{ \frac{11}{80} \times \frac{80}{11} \times \frac{6}{11} + \frac{9}{11} \right\}$$

$$= \frac{15}{11} \div \left\{ \frac{6}{11} + \frac{9}{11} \right\} = \frac{15}{11} \div \frac{15}{11}$$

$$= \frac{15}{11} \times \frac{11}{15} = 1.$$

53. Option (2) is correct.

In Δ ABD and Δ ABC

$$\angle ABD = \angle ABC \text{ (Common)}$$
$$\angle ADB = \angle BAC = 90°$$
$$\Delta \text{ ABD} \sim \Delta \text{ CBA}$$
$$\therefore \quad \frac{AB}{BC} = \frac{BD}{AB}$$

$\therefore$ AB is mean proportional between BD and BC.

54. Option (3) is correct.

Container 1　　　　　Container 2
Milk : water　　　　Milk : water
3 : 2　　　　　　　6 : 5

Amount of Milk $\frac{3}{5}$　　　$\frac{6}{11}$

$\frac{4}{7}$

$\frac{2}{77}$　　　　　$\frac{1}{35}$
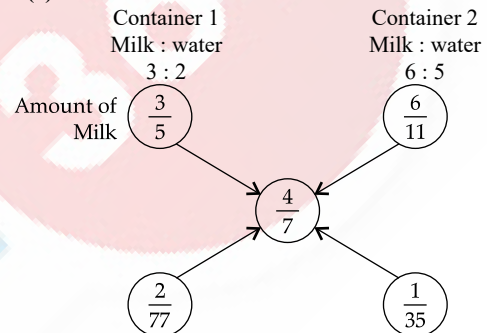
$$\left(\frac{2}{177} \times 385 : \frac{1}{35} \times 385 \right)$$

$$= 10 : 11.$$

55. Option (2) is correct.

Area of square (S) $= (2x)^2$
$= 4x^2$
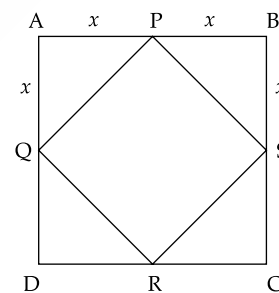
Area of square PQRS (A)

$$= \left(\sqrt{2}x \right)^2 = 2x^2$$

$$\therefore \quad \frac{A}{S} = \frac{2x^2}{4x^2} = \frac{1}{2} = 0.5$$

56. Option (1) is correct.

11, 13, 16, 19, 22, 25, 27, 32

$$\text{Median} = \left(\frac{N}{2}\right)^{th} + \left(\frac{N}{2}+1\right)^{th}$$

$$= \frac{4^{th}+5^{th}}{2} = \frac{19+22}{2} = \frac{41}{2} = 20.5.$$

57. Option (3) is correct.

$$\text{Speed of wind} = 10^5 \text{ mm/s} = \frac{10^5}{1000} \text{ m/s}$$

$$= 100 \text{ m/s}$$

$$\text{Distance} = 1 \text{ km} = 1000 \text{ m.}$$

$$\text{Time} = \frac{\text{Distance}}{\text{Speed}} = \frac{1000}{100} = 10 \text{ s.}$$

58. Option (3) is correct.

Let the less efficient friend does x units per day.

So, the efficient of other friend = $3x$ units per day.

Now, the total work = $6(x + 3x) = 24x$

Hence, time taken by the less efficient friend to complete

twice quantum of work = $\frac{(24x \times 2)}{x} = 48$ days.

59. Option (2) is correct.

Let population of state B = x

$$\text{New population of state B} = x\left(1+\frac{19.96}{100}\right)$$

$$= 1.1996x$$

When all are return to state A

$$\text{Decrease \%} = \frac{1.1996x - x}{1.1996x} \times 100$$

$$= \frac{0.1996}{1.1996} \times 100 = \frac{199600}{11996}$$

$$= 16.64\%$$

60. Option (2) is correct.

If month have 30 days which start with Saturday.

So there are 5 Saturdays and 5 Sundays and 20 other days.

Hence total sales = $5 \times 300 \times 2 + 20 \times 200$

$$= 3000 + 4000 = ₹ 7000$$

From given option April has 30 days.

61. Option (2) is correct.

In 2013

Number of Sociology students shifted

$$= 125 \times \frac{20}{100} = 25$$

Number of Political Science students shifted

$$= 120 \times \frac{25}{100} = 30$$

Number of Economics students shifted

$$= \frac{1}{6} \times 96 = 16$$

Number of History students joined

$$= 160 \times \frac{10}{100} = 16$$

Total number of students

$$= (125 - 25) + (120 - 30) + (96 - 16) +$$
$$(160 + 16) + 84 = 530$$

Number of History students = $160 + 16 = 176$

Central angle of History $= \frac{176}{530} \times 360 = 120°.$

62. Option (3) is correct.

$$\text{Selling price} = 400\left(1-\frac{12}{100}\right)\left(1-\frac{20}{100}\right)$$

$$= 400 \times \frac{88}{100} \times \frac{80}{120} = \frac{4 \times 88 \times 8}{10}$$

$$\text{C.P} = \frac{\text{S.P} \times 100}{100+\text{Profit \%}} = \frac{4 \times 88 \times 8 \times 100}{10(100+10)}$$

$$= \frac{4 \times 88 \times 8 \times 10}{110} = 4 \times 8 \times 8$$

$$= ₹ 256$$

63. Option (1) is correct.

Ten consecutive odd numbers are 5, 7, 9, 11, 13, 15, 17, 19, 21, 23

$$\text{Average} = \frac{5+7+3 \times (9+11+13 \cdots + 23)}{10}$$

$$= \frac{12+3 \times 128}{10} = 39.6$$

64. Option (3) is correct.

Let radius of sphere = 1 mm = $\frac{1}{10}$ cm

Volume of container = 128000 × volume of sphere

$$\frac{1}{3}pr^2 . r = 128000 \times \frac{4}{3}\pi\left(\frac{1}{10}\right)^5$$

$$r^3 = 128 \times 4 = 64 \times 8$$

$$r = 8 \text{ cm}$$

65. Option (4) is correct.

The number of players of sport C

$$= \frac{54}{360} \times \text{Total players}$$

$$162 = \frac{54}{360} \times \text{Total players}$$

$$\text{Total players} = 162 \times \frac{360}{54} = 1080$$

The difference between sports A and E

$$= \frac{90-72}{360} \times 1080$$

$$= 18 \times 3 = 54$$

66. Option (3) is correct.

$$\text{C.P} = \frac{\text{S.P} \times 100}{100+\text{gain \%}} = \frac{1232 \times 100}{100+124}$$

$$= \frac{1232 \times 100}{224} = ₹ 550$$

$$\text{Gain \%} = \frac{572-550}{550} \times 100$$

$$= \frac{22 \times 100}{550} = 4\%$$

67. Option (1) is correct.

Total work = $12 \times 20 = 240$ h.

Total work done in 2 days = $(6 + 8) = 14$ h.

$\because$ $240 = 14 \times 17 + 2$

$\therefore$ $x = 2 \times 17 = 34$ days

         $y = 2$ h.

68. Option (3) is correct.

$$\frac{\left(3+\dfrac{3}{2}\div 6\dfrac{1}{2}\times\dfrac{1}{3}\right) \text{ of } 4\dfrac{1}{3}}{\left(-\dfrac{8}{3}\div 2\right)}$$

$$=\frac{\left(3+\dfrac{3}{2}\times\dfrac{2}{13}\times\dfrac{1}{3}\right) \text{ of } \dfrac{13}{3}}{\left(-\dfrac{8}{3}\times\dfrac{1}{2}\right)}$$

$$=\frac{\left(3+\dfrac{1}{13}\right) \text{ of } \dfrac{13}{3}}{-\dfrac{4}{3}}=-\frac{40}{13}\times\frac{13}{3}\times\frac{3}{4}$$

$$=-10.$$

69. Option (3) is correct.

Earth takes 86400 sec. to rotate 360°. So, time taken to rotate through an angle of 135°

$$=\frac{135}{360}\times 86400$$

$$=32400 \text{ s.}$$

70. Option (2) is correct.

The maximum possible number of fruits possible in each heap is HCF of 1092 and 3432.

Hence, the number= HCF (1092, 3432) = 156.

71. Option (3) is correct.

Interest = 300 − 200 = 100 pieces

Let rate of interest = R %

∴ According question

$$\frac{200\times R\times 1}{100}=100$$

$$\Rightarrow \qquad R=50\%$$

72. Option (4) is correct.

$$A=P\left(1+\frac{r}{100}\right)^{n}$$

$$7056=6400\left(1+\frac{r}{100}\right)^{2}$$

$$\Rightarrow \qquad \frac{7056}{6400}=\left(1+\frac{r}{100}\right)^{2}$$

$$\Rightarrow \qquad 1+\frac{r}{100}=\sqrt{\frac{7056}{6400}}=\frac{84}{80}$$

$$\Rightarrow \qquad \frac{r}{100}=\frac{84}{80}-1=\frac{4}{80}=\frac{1}{20}$$

$$\Rightarrow \qquad r=\frac{1}{20}\times 100=5\%$$

73. Option (3) is correct.

$$\text{Total surface area}=2\pi r\,(r+h)$$

$$1617=2\times\frac{22}{7}\times\frac{21}{2}\left(\frac{21}{2}+h\right)$$

$$\Rightarrow \qquad \frac{1617\times 7\times 2}{2\times 22\times 21}=\frac{21}{2}+h$$

$$\Rightarrow \qquad \frac{49}{2}-\frac{21}{2}=h$$

$$\Rightarrow \qquad \frac{28}{2}=h \Rightarrow h=14 \text{ cm}$$

$$\text{Volume of cylinder }=\pi r^{2}h=\frac{22}{7}\times\frac{21}{2}\times\frac{21}{2}\times 14$$

$$=4851 \text{ cm}^{3}$$

74. Option (4) is correct.

Total C.P of manufacturing

$$=24000\left(1+\frac{20}{100}\right)=24000\left(\frac{6}{5}\right)$$

S.P of manufacturing

$$=24000\times\frac{6}{5}\times\left(1+\frac{90}{100}\right)$$

$$=24000\times\frac{6}{5}\times\frac{3}{2}=2400\times 18$$

$$=\text{C.P of retailer}$$

∴ S.P of retailer

$$=2400\times 18\times\left(1-\frac{20}{100}\right)$$

$$=2400\times 18\times\frac{4}{5}=₹\,34560$$

75. Option (3) is correct.

Total number of student in Economics and Psychology = 96 + 84 = 180

Total number of students in History, Political Science and Sociology = 160 + 120 + 125 = 405

$$\text{Percentage }=\frac{180}{405}\times 100=44.4\%$$

76. Option (1) is correct.

Mir Jafar became the Nawab of Bengal after Battle of Plassey. Robert Clive a British officer bribed Mir Jafar who was the commander in chief of the Nawab's army, as a result he was propped up as the Puppet Nawab but Mir Jafar got involved with Dutch East India Company.

77. Option (2) is correct.

The Kodava community of Coorg worships weapons during the Kailpodh festival. It is the harvest festival and is the time for the Kodavas to feast after involving in hard labour of the plugging. It is celebrated by the Kodava community of Kodagu district of Karnataka.

78. Option (3) is correct.

The sunlight splits into seven colors namely violet, indigo, blue, green, orange, yellow and red. However, the Sun is essentially all colors mixed together, which appear to our eyes as white. These colours are the same as that of a rainbow. A rainbow is a natural spectrum appearing in the sky after a rain shower.

79. Option (1) is correct.

The Kamakhya Temple is one of the oldest and most revered centres of Tantric practices, situated at Nilachal hills in Guwahati, Assam. It is one of the 52 Shakti Peeths. The famous Ambubachi Mela festival is celebrated annually at Kamakhya Temple to mark the menstruation of the goddess.

80. Option (1) is correct.

The Maintenance and Welfare of Parents and Senior Citizens Act, 2007 was enacted to provide financial security, welfare and protection for senior citizens. It directs children to pay a maximum of Rs 10,000 per month as maintenance amount to their parents. This Act provides an inexpensive and speedy procedure to claim monthly maintenance for parents and senior citizens.

81. Option (3) is correct.

Gross National Happiness (GNH), is a philosophy that guides the government of Bhutan. National Happiness is a concept implies that sustainable development should take a holistic approach towards notions of progress and give equal

importance to noneconomic aspects of wellbeing. It includes an index which is used to measure the collective happiness and well-being of a population.

82. **Option (1) is correct.**
The book – 'India Divided' traces the history of the partition of India into the two zones- Hindustan and Pakistan, was written by Dr. Rajendra Prasad. Rajendra Prasad was an Indian politician, lawyer, Indian independence activist, journalist and scholar who served as the first President of India from 1950 to 1962.

83. **Option (3) is correct.**
The History of British India is a three-volume work by the James Mill, a Scottish economist, James Mill is counted among the founders of the Ricardian School of economics.

84. **Option (4) is correct.**
The United Nations Development Programme is a United Nations agency tasked with helping countries eliminate poverty and achieve sustainable economic growth and human development. India has been ranked 129th among 189 countries in the Human Development Index-2019 released by UNDP.

85. **Option (2) is correct.**
The image of Bharatmata was an icon to create nationalist feeling in Indians during the freedom struggle. Bharat Mata is a work painted by the Indian painter Abanindranath Tagore in 1905. The painting was used in rallies opposing the Bengal Partition.

86. **Option (1) is correct.**
Hafez is the most popular poet in Iran, and his works can be found in almost every Iranian home. Hafiz (Hafez) was a 14th century poet whose collection of poems is known as 'Diwan' or 'Diwan-e-Hafiz'. He was one of the famous poet among Sadi, Firdousi, Khaiyam.

87. **Option (3) is correct.**
From the given options, Rabies diseases is not caused by ingesting polluted water. Rabies is a preventable viral disease most often transmitted through the bite of a rabid animal. Infected animals have the virus in their saliva. The virus enters the body through broken skin or the eyes, nose, or mouth, and travels through nerves to the brain. A person may show the first sign of rabies an average of 1 to 3 months after the virus enters the body.

88. **Option (4) is correct.**
Rohit Sharma is the first Indian cricketer to have twin centuries in his maiden appearance as a Test opener. Rohit Sharma is known for his timing, elegance, six-hitting abilities and leadership skills. He has become India's second captain to finish 200 T20 matches.

89. **Option (1) is correct.**
Zinc + Sulphuric acid $\rightarrow$ Zinc sulfate + Hydrogen (g)
In the given molecular reaction, (g) indicates gas i.e. hydrogen is a gas. This is a displacement reaction where Zn replace the H in the sulfuric acid.

90. **Option (2) is correct.**
Sadio Mane is a professional football player. He plays for Bundesliga club Bayern Munich and the Senegal national team. He is renowned for his pressing, dribbling, and speed and is regarded as one of the best players in the world and among the greatest African players of all time.

91. **Option (4) is correct.**
From the given options, Thyme leaves are not a natural acid-base indicator. Acid–base indicators are generally weak protolytes that change color in solution according to the pH. Substances that are used to indicate whether a substance is acid or a base are known as indicators. Thymol Blue, Phenol Red, and Methyl Orange are all common acid-base indicators.

92. **Option (1) is correct.**
The Buxa Tiger Reserve in West Bengal is seriously threatened by the ongoing dolomite mining. In altitude, it ranges from 60 m in the Gangetic Plains to 1,750 m bordering the Himalayas in the north. These mining activities have disturbed the natural habitat of many species including the Tigers.

93. **Option (2) is correct.**
Awadh State was a princely state in the Awadh region of North India until its annexation by the British in 1856. Awadh was annexed on the pretext of misgovernance by the existing Nawab, Wajid Ali Shah. Lord Dalhousie annexed Awadh in 1856 after deposing Nawab Wajid Ali Shah on grounds of misgovernment.

94. **Option (3) is correct.**
From the given options, only option 3 is incorrect regarding the Reserve Bank of India. The Hilton Young Commission was a Commission of Inquiry appointed in 1926 to look into the possible closer union of the British territories in East and Central Africa. Hilton-Young Commission was the Royal Commission on Indian Currency and Finance set up by British Government of India in 1920s.

95. **Option (3) is correct.**
The Companies Act 2013 is an Act of the Parliament of India on Indian company law which regulates incorporation of a company, responsibilities of a company, directors, dissolution of a company. According to this act, dividend declared by a company but not paid or claimed within 30 days from the date of declaration is to be transferred to the Unpaid Dividend Account.

96. **Option (1) is correct.**
From the given options, only the River Yamuna is a snow-fed river. In India, the Brahmaputra, Indus, Ganga and Yamuna are the snow-fed rivers. The Yamuna is the main and the longest right bank tributary of river Ganga. It rises from Yamunotri glacier near Banderpoonch peak of the higher Himalaya.

97. **Option (4) is correct.**
India's first jute mill was set up at Rishra near Kolkata in 1855 when Mr. George Acland brought jute spinning machinery from Britten. This helped process jute produced in the entire Bengal region. The mill produced 8 tons of jute yarn per day in its first two years of operation, which were in turn sold to local weavers.

98. **Option (3) is correct.**
Vernacular Press Act was enacted in British India in the year 1878 to curtail the freedom of the Indian press and prevent the expression of criticism toward British policies. It was passed by then Viceroy, Lord Lytton, in an attempt to prohibit local papers from publishing any criticism of British policies. The Act restricted newspapers to publish any material that might excite feelings of dissatisfaction against the British government in India.

99. **Option (4) is correct.**
From the given options, only 4 is incorrect regarding the properties of metals. Lead and mercury are very poor conductors of heat. Mercury metal is a poor conductor while Lead is the poorest conductor. Normally, Metals are particularly good conductors of heat because their particles are very closely packed so the vibrations are passed on very quickly.

100. **Option (3) is correct.**
The 'Mopin' or 'Moopin', a festival of the Galo tribe of Arunachal Pradesh, is celebrated in April every year. It is an agricultural festival celebrated in particular of the Galo group of tribes which resides in East Siang and West Siang districts. The Mopin mythology and sacred text says that Mopin Ane (mother) was the first to teach the art of cultivation to Abo Tani – the first man ever born on this Earth.