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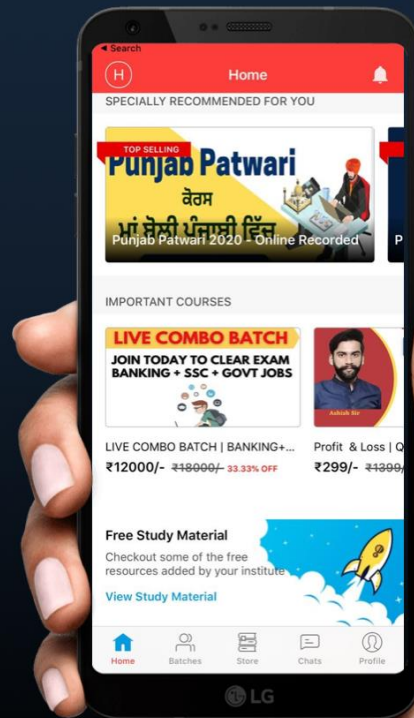
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- 1) By selling a watch for Rs.495, a shopkeeper incurs a loss of 10%. Then, find the cost price of the watch for the shopkeeper.
 - a) Rs.545
 - b) Rs.550
 - c) Rs.555
 - d) Rs.565

- 2) Total number of students in a class is 95, if the total number of girls in the class is 45, then the ratio of total number of boys to total number of girls is:
 - a) 9 : 10
 - b) 7 : 8
 - c) 10 : 9
 - d) 9 : 11

- 3) If ratio of two numbers is 20 : 39 and their sum is 295, then these numbers are:
 - a) 100, 195
 - b) 150, 145
 - c) 105, 190
 - d) 110, 185

- 4) If the ratio between two numbers is 8 : 17, then what number should be subtracted to make this ratio 2 : 5 ?
 - a) 2
 - b) 4
 - c) 5
 - d) 3

- 5) In what ratio must a grocer mix two types of rice costing Rs. 7.50 per kg and Rs.10 per kg respectively, so as to get a mixture worth Rs.8.25 per kg?
- a) 7 : 3
 - b) 5 : 6
 - c) 3 : 7
 - d) 6 : 5
- 6) If A and B together can do a piece of work in 12 days and A alone can do it in 24 days, then in how many days B alone can do this work?
- a) 25 days
 - b) 24 days
 - c) 31 days
 - d) 28 days
- 7) If A and B, working together can finish a piece of work in 5 days, B and C in 3 days, C and A in 6 days. How much time will they take to complete the work, if A, B and C work together?
- a) $7\frac{4}{5}$ days
 - b) $6\frac{4}{5}$ days
 - c) $7\frac{2}{3}$ days
 - d) $2\frac{6}{7}$ days

- 8) If 5 men or 8 women can complete a work in 8 days. Then, 8 women and 15 men can take how many days to complete double work?
- a) 2 days
 - b) 6 days
 - c) 4 days
 - d) 8 days
- 9) Suppose company A supply 15 men who work for 8 h per day for 5 days while company B supplies 6 men who work for 5 h per day for 10 days. If a total of Rs.1200 is paid as wages, then share of A's wages is:
- a) Rs.800
 - b) Rs.810
 - c) Rs. 820
 - d) Rs. 840



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- 10) Find the sum of 5th terms of the series $1/5, 1/2, 5/4, \dots$
- a) 12.11
 - b) 12.24
 - c) 12.88
 - d) 12.92
- 11) Choose the correct alternative which shows same relationship.
Botany : Plant :: Entomology : ?
- a) Shakes
 - b) Insects
 - c) Birds
 - d) Germs
- 12) Choose the correct alternative which represent the same relationship as the first two bears.
 $3252 : 4044 :: 5757 : ?$
- a) 9099
 - b) 5756
 - c) 5469
 - d) 9655
- 13) Which of the following pairs has the same relationship as it is between JL and WZ?
- a) AC and RU
 - b) AB and PW
 - c) PR and LM
 - d) TU and WX
- 14) Choose the correct alternative which shows the same relationship.
 $DE : 10 :: HI : ?$

- a) 17
 - b) 20
 - c) 36
 - d) 46
- 15) Choose the correct alternative which shows the same relationship. RACK : 33 :: BOTTLE : ?
- a) 74
 - b) 75
 - c) 73
 - d) 72
- 16) Find the wrong term in the series 7, 11, 13, 15, 19, 23.
- a) 13
 - b) 15
 - c) 19
 - d) 23
- 17) Find the missing term in the series 3, 6, 9, 12, 15,, 21.
- a) 16
 - b) 17
 - c) 20
 - d) 18
- 18) Find the missing term in the series 105, 104, 101, 96, ? , 80.
- a) 90
 - b) 91
 - c) 89
 - d) 88

- 19) Find the missing term in the series 5040, 720, 120, 24,,
2, 1.
a) 8
b) 7
c) 6
d) 5
- 20) Find the wrong term in the series. 75, 79, 72, 80, 69, 83, 66.
a) 79
b) 83
c) 69
d) 72
- 21) If code for 'NAME' is '13261422', then what will be the code for
'TEAM'?
a) 7222614
b) 1426227
c) 7262214
d) 7142622



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22) If 'ELTM' is coded as 50, then find the code for 'YZNP'.

- a) 100
- b) 89
- c) 191
- d) 81

23) Which of the following code is the correct code for 'AMLXE'?

Letter	X	S	M	A	P	E	D	L	W	T
Digit	1	6	9	8	3	5	0	2	4	7

- a) 89213
- b) 89210
- c) 89215
- d) 89015

24) Which word from the following cannot be formed using the letters of the word 'CONSTRUCTION'?

- a) SUCTION
- b) COINS
- c) CAUTION
- d) NOTION

25) Select the combination of numbers, so that the letters arranged will form a meaningful word.

H N R C A B

1 2 3 4 5 6

- a) 2, 5, 3, 4, 1, 6
- b) 3, 5, 6, 4, 1, 2
- c) 4, 1, 5, 6, 2, 3
- d) 6, 3, 5, 2, 4, 1

26) The following four words are arranged in alphabetical order, which word will come at the second place?

- a) Electric
- b) Elector
- c) Elect
- d) Electrode

27) Arrange the given words as per their order in the dictionary.

- 1) Elope
- 2) Evaluate
- 3) Enlarge
- 4) Enormous
- a) 1, 3, 4, 2
- b) 3, 1, 4, 2
- c) 1, 3, 2, 4
- d) 3, 1, 2, 4

Directions (Question No. 28 to 31) Read the following information carefully and answer the questions given below.

Four Young men Anil, Mukesh, Piyush and Yogesh are lovingly called Munna, Babboo, Prince and Pappoo by everyone. They are married to Madhu, Sunanda, Jyoti and Arti.

- I. Arti and Madhu are neither married to Piyush or Anil nor their husband is called Babboo.
- II. Babboo is not married to Sunanda and his name is not Piyush.
- III. Sunanda is not married to Munna.
- IV. Mukesh is neither Munna nor Prince and is not married to Madhu.

28) Which of the following pair of husband-wife is not correct?

- a) Munna, Madhu
- b) Babboo, Jyoti
- c) Pappoo, Jyoti
- d) None of these

29) What is the nick name of Mukesh?

- a) Babbo
- b) Pappoo
- c) Munna
- d) Prince

30) Who is the husband of Sunanda?

- a) Anil
- b) Mukesh
- c) Piyush
- d) Yogesh

31) Yogesh is married to whom?

- a) Sunanda
- b) Arti
- c) Madhu
- d) Jyoti

Directions (Question No. 32 to 35) Read the following information carefully to answer the questions that follow.

Nine Professors- G, H, I, J, K, L, M, N and O appear on a series of three panels. Each panel will consists of three professors and each professor will appear exactly once. The panel must be arranged according to the following conditions.

- I. I and N must be on the same panel.
- II. K and L must be on the same panel.
- III. O and J cannot be on the same panel.
- IV. M must appear on the second panel.
- V. Either J or M or both must appear on a panel together with H.

- 32) Which of the following professors could appear on a panel together?
- a) G, L, O
 - b) G, J, M
 - c) K, I, M
 - d) N, I, J
- 33) Which of the following cannot be true?
- a) I appears on 2nd panel
 - b) H appears on 3rd panel
 - c) O appears on 3rd panel
 - d) J appears on 1st panel and H appears on the 3rd
- 34) The 3rd panel could consist of all the following except
- a) K, L, O
 - b) K, L, J
 - c) G, H, J
 - d) G, I, J
- 35) All the following could be on the same panel as K, except
- a) G
 - b) I
 - c) J
 - d) M
- 36) If every second Saturday and all Sundays are holidays in a 30 days month beginning on Saturday, then how many working days are there in that month?
- a) 20 days
 - b) 23 days
 - c) 25 days

- d) 30 days
- 37) In a month of 31 days, if third Thursday falls on 16th, then what will be the last day of the month?
- a) 5th Friday
 - b) 4th Saturday
 - c) 5th Wednesday
 - d) 5th Thursday
- 38) Roshan is taller than Hardik who is shorter than Susheel. Niza is taller than Harry but shorter than Hardik. If Susheel is shorter than Roshan, then who is the tallest?
- a) Roshan
 - b) Susheel
 - c) Hardik
 - d) Harry
- 39) There are five books A, B, C, D and E. Book C lies above D, book E is below A, D is above A, B is below E. Which is at the bottom?
- a) B
 - b) E
 - c) A
 - d) C
- 40) In a row of girls, Kamya is fifth from the left and Preeti is sixth from the right. When they exchange their positions, then Kamya becomes thirteenth from the left. What will be Preeti's position from the right?
- a) 7th

- b) 14th
- c) 11th
- d) 18th

41) In a row of 25 children, Nayan is 14th from the right end. Arun is 3rd to the left of Nayan in the row. What is Arun's position from the left end of the row?

- a) 8th
- b) 9th
- c) 7th
- d) 10th

42) The production of shirts of a company in year 2012 is 10 lakh while in 2011 the production is 9 lakh. Find the percentage change in production of shirts in year 2012 as compared to production of shirts in year 2011.

- a) 11%
- b) 1.1%
- c) 0.11%
- d) None of these

43) A's salary increases by 20% and then decreases by 20%. What is the net percentage change in A's salary?

- a) 8%
- b) 4%
- c) 6%
- d) 10%

44) Find the highest and the lowest amongst the following.

$$\frac{14}{340}, \frac{34}{602}, \frac{29}{571}, \frac{41}{741}$$

- a) $\frac{34}{602}, \frac{14}{340}$

b) $\frac{34}{602}, \frac{29}{571}$

c) $\frac{29}{571}, \frac{41}{741}$

d) $\frac{41}{741}, \frac{34}{602}$

Direction: (Question No. 45) The question given below is accompanied by three statements numbered I, II and III. You have to determine which statement (s) is/are sufficient/necessary to answer the question.

45) What is the sum of two numbers?

- I. The bigger of these two numbers is 6 more than the smaller number.
 - II. 40% of the smaller number is equal to 30% of the bigger number.
 - III. The ratio between half of the bigger number and one-third of the smaller number is 2 : 1.
- a) II and III are sufficient
 - b) I and II are sufficient
 - c) I and either II or III are sufficient
 - d) All I, II and III together are sufficient

Directions (46): In each question below are given two/three statements followed by two conclusions numbered I and II. You have to take the given two statements to be true even if they seem to be at variance with commonly known facts. Read all the conclusions and then decide which of the given conclusions logically follows from the given statements, disregarding commonly known facts. Give answer

- i) if neither conclusion I nor II follows.
- ii) if only conclusion II follows.
- iii) if only conclusion I follows.
- iv) if both conclusions I and II follow.

46) **Statements:** Some books are poetry

All poetry are philosophy.

Some philosophy is psychology.

Conclusions: I. Some books are philosophy.

II. Some psychology is not philosophy.

47) Find the missing term in the series 1, 5, 13, 25, 41, ?

- a) 51
- b) 57
- c) 61
- d) 63

Direction: (Question No. 48 to 52) In each of the following Questions, there is a certain relationship between two given words on one side of :: and one word is given on another side of :: while another word is to be found from the given alternatives, having the same relation with this word as the words of the given pair bear. Choose the correct alternative.

48) Malaria : Disease :: Spear : ?

- a) Wound
- b) Sword
- c) Weapon
- d) War

49) Lion : Den :: Rabbit : ?

- a) Trench
- b) Hole
- c) Pit
- d) Burrow



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50) Wood : Chip :: Bread : ?

- a) Bit
- b) Splinter
- c) Crumb
- d) Scrap

51) Carpenter : Saw :: Tailor : ?

- a) Measurement
- b) Sewing
- c) Cloth
- d) Needle

52) Bird : Fly :: Snake : ?

- a) Hole
- b) Crawl
- c) Clatter
- d) Stroll

Direction: (Question No. 53 to 57) In each of the following Questions, a group of three/four inter-related words is given. Choose a word from the given alternative, that is similar to the given words and hence belongs to the same group.

53) Iron : Copper : Zinc

- a) Ceramic
- b) Carbon
- c) Silver
- d) Coke

54) Pituitary : Thyroid : Pancreas

- a) Adrenal
- b) Heart
- c) Liver
- d) Kidney

55) Jam : Jelly : Pickles

- a) Butter
- b) Marmalade
- c) Grapes
- d) Preservative

56) Peat : Lignite : Bituminous

- a) Granite
- b) Basalt
- c) Anthracite
- d) Coke

57) Mumbai : Kolkata : Mangalore

- a) Hyderabad
- b) Cochin
- c) Delhi
- d) Jaipur

Direction: (Question No. 58): Each of the following questions has four alternative responses. Choose the correct response.

58) Which of the following is the same as Grafting, Budding, Layering?

- a) Weeding
- b) Digging
- c) Field
- d) Seed

Directions : (Question No. 59 to 60) Choose the odd pair of words.

- 59) a) Blacksmith : Anvil
b) Carpenter : Saw
c) Barber : Scissor
d) Goldsmith : Ornaments
- 60) a) Actor : Stage
b) Mason : Wall
c) Farmer : Field
d) Worker : Factory
- 61) In a certain code, CONDEMN is written as CNODMEN. How will TEACHER be written in that code?
a) TAECEHR
b) TCAEHER
c) TAECHER
d) TAEECHR
- 62) If STRONG is written as ROTNSG, then how would NAGPUR be written in the same code?
a) GPAUNR
b) PGUARN
c) PGAURN
d) GPUANR
- 63) In a certain code language, VISHWANATHAN is written as NAAWTHHSANIV. How is KARUNAKARANA written in that code?
a) AKNUARRANKA
b) KANRAURNAAK
c) NKKRANKRAUK
d) RURNKAAUNAK

Directions (Question No. 64 to 67) : Answer these questions based on the following information:

Mr. Bankatlal acted as a judge for the beauty contest. There were four participants, viz. Ms. Andhra Pradesh, Ms. Uttar Pradesh, Ms. West Bengal and Ms. Maharashtra. Mrs. Bankatlal, who was very anxious about the result asked him about it as soon he was back home. Mr. Bankatlal just told that the one who was wearing the yellow saree won the contest. When Mrs. Bankatlal pressed for further details, he elaborated as follows:

- (A) All of them were sitting in a row
- (B) All of them wore sarees of different colours viz., green, yellow, white, red.
- (C) There was only one runner-up and she was sitting beside Ms. Maharashtra.
- (D) The runner-up was wearing the green saree.
- (E) Ms. West Bengal was not sitting at the ends and was not the runner-up.
- (F) The winner and the runner-up are not sitting adjacent to each other.
- (G) Ms. Maharashtra was wearing white saree.
- (H) Ms. Andhra Pradesh was not wearing the green saree.
- (I) Participants wearing yellow saree and white saree were at the ends.

64) Which saree was worn by Ms. Andhra Pradesh?

- a) White
- b) Green
- c) Red
- d) Yellow

65) Who wore the red saree?

- a) Ms. Maharashtra
- b) Ms. Uttar Pradesh
- c) Ms. Andhra Pradesh
- d) Ms. West Bengal

66) Ms. West Bengal was sitting adjacent to

- a) Ms. Uttar Pradesh Only
- b) Ms. Andhra Pradesh and Ms. Uttar Pradesh
- c) Ms. Uttar Pradesh and Ms. Maharashtra
- d) Ms. Andhra Pradesh and Ms. Maharashtra

67) Who was the runner-up?

- a) Ms. Maharashtra
- b) Ms. Uttar Pradesh
- c) Ms. Andhra Pradesh
- d) Ms. West Bengal

Directions: (Question No. 68 to 72): Read the following passage to answer these questions:

Anita, Mahima, Rajan, Lata and Deepti are five cousins. Anita is twice as old as Mahima. Rajan is half the age of Mahima. Anita is half the age of Deepti and Rajan is twice the age of Lata.

68) Who is the youngest?

- a) Deepti
- b) Rajan
- c) Lata
- d) Anita

- 69) Who is the eldest?
- a) Deepti
 - b) Lata
 - c) Anita
 - d) None of these
- 70) Which of the following pairs of persons are of the same age?
- a) Mahima and Lata
 - b) Anita and Mahima
 - c) Mahima and Rajan
 - d) None of these
- 71) Anita is younger than
- a) Rajan
 - b) Mahima
 - c) Deepti
 - d) None of these

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72) If Mahima is 16 years old, then what is the age of Lata?

- a) 4 years
- b) 5 years
- c) 7 years
- d) 14 years

Directions: (Question No. 73 to 82): Study the following information and answer the questions given below it:

A, B, C and D are four friends who do not mind exchanging items. A had two chessboards each costing Rs. 500 and a record player. C- originally had a cycle and a walkman. Each cricket bat costs Rs.700/-. Both D and C got a cricket bat from B. A gave his record player costing Rs.2000 to B. C got a camera costing Rs.1500/- from D. The cycle C had costs Rs.1000 and the walkman costs Rs.700. B had three cricket bats at the beginning and D had two cameras total cost of which is Rs.5000. A gave one of his chessboards to C and took C's cycle. C gave his walkman to D.

73) Who did not have a cricket bat at the end of exchange of items?

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

74) Total cost of materials C had at the beginning was

- a) Rs. 5000
- b) Rs. 3000
- c) Rs. 2100
- d) Rs. 1700

- 75) After completion of exchange of items, A had with him an item which no one else had. What is the item?
- a) Chessboard
 - b) Cycle
 - c) Record player
 - d) Walkman
- 76) At the beginning who had the costliest items?
- a) A
 - b) B
 - c) C
 - d) D
- 77) In the process of exchange of items, B received an item from
- a) A
 - b) C
 - c) D
 - d) None of these
- 78) After exchange of items, B had
- a) One record player
 - b) One cricket bat
 - c) One record player and one cricket bat
 - d) One record player and one camera
- 79) After exchange of items, who had the items total cost of which is Rs.1500?
- a) A
 - b) B
 - c) C
 - d) D

- 80) Who incurred maximum loss after the exchange of items?
a) D
b) A
c) C
d) B
- 81) Who made profit after the exchange of items?
a) A and B
b) A and D
c) B and C
d) C and D
- 82) At the end of exchange of items, D had in his possession
a) One cricket bat and one camera
b) One camera, one walkman and one cricket bat
c) One cricket bat and one walkman
d) One camera and one walkman
- 83) If you are facing north-east and move 10 m forward, turn left and move 7.5m, then you are
a) north of your initial position
b) south of your initial position
c) east of your initial position
d) 12m from your initial position
- 84) Manick walked 40 metres towards North, took a left turn and walked 20 metres. He again took a left turn and walked 40 metres. How far and in which direction is he from the starting point?
a) 20 metres East
b) 20 metres North
c) 20 metres South
d) None of the above

- 85) I am facing South. I turn right and walk 20m. Then I turn right again and walk 10m. Then I turn left and walk 10m and then turning right walk 20m. Then I turn right again and walk 60m. In which direction am I from the starting point?
- a) North
 - b) North-West
 - c) East
 - d) North-East
- 86) Arrange the following in a logical order:
- 1) Shoulder
 - 2) Wrist
 - 3) Elbow
 - 4) Palm
 - 5) Finger
- a) 2, 4, 5, 3, 1
 - b) 3, 1, 4, 2, 5
 - c) 3, 4, 5, 2, 1
 - d) 5, 4, 2, 3, 1
- 87) Arrange the following in a logical order:
- 1) Gold
 - 2) Iron
 - 3) Sand
 - 4) Platinum
 - 5) Diamond
- a) 2, 4, 3, 5, 1
 - b) 3, 2, 1, 5, 4
 - c) 4, 5, 1, 3, 2
 - d) 5, 4, 3, 2, 1

- 88) 12 year old Karun is three times as old as his brother Rahul. How old will Karun be when he is twice as old as Rahul?
- a) 14 years
 - b) 16 years
 - c) 18 years
 - d) 20 years
- 89) A father tells his son, "I was of your present age when you were born". If the father is 36 now, how old was the boy five years back?
- a) 13
 - b) 15
 - c) 17
 - d) 20
- 90) In a town, 65% people watched the news on television, 40% read a newspaper and 25% read a newspaper and watched the news on television also. What percent of the people neither watched the news on television nor read a newspaper?
- a) 5
 - b) 10
 - c) 15
 - d) 20
- 91) In a group of 15 people, 7 read French, 8 read English while 3 of them read none of these two. How many of them read French and English both?
- a) 0
 - b) 3
 - c) 4
 - d) 5

Direction: (Question No. 92 to 94): Study the information given below and answer the questions that follow:

A publishing firm publishes newspapers A, B and C. In an effort to persuade advertisers to insert advertisements in these newspapers, the firm sends out the following statements to possible advertisers:

A survey of representative sample of the whole population shows that—

Newspaper A is read by 26%;

Newspaper B is read by 25%;

Newspaper C is read by 14%;

Newspapers A and B are read by 11%;

Newspapers B and C are read by 10%;

Newspapers C and A are read by 9%;

Newspaper C only is read by 0 %;

92) The percentage of readers who read all the three newspapers is

- a) 1
- b) 4
- c) 5
- d) 6

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- 93) The percentage of readers who read A and B but not C, is
a) 2
b) 4
c) 5
d) 6
- 94) The percentage of readers who read at least one of the three newspapers is
a) 40
b) 50
c) 60
d) 65
- 95) Who among the following has written the 'Mahan Kosh'?
a) Sant Singh Sekhon
b) Bhai Kahan Singh
c) Nanak Singh
d) Surjit Pattar
- 96) Which of the following firms has recently been in news for supply of faulty hip implants?
a) Smith and Nephew
b) Zimmer Biomet
c) Stryker Corporation
d) Johnson and Johnson
- 97) Who among the following clinched the US Open (Women) 2018 title?
a) Serena Williams
b) Naomi Osaka
c) Sloane Stephens
d) Anastasija Sevastova

98) Where is the Jang-e-Azadi memorial located?

- a) Malerkotla
- b) Kartarpur
- c) Kapurthala
- d) Amritsar

99) Match the following:

- | | |
|-----------------|---------------|
| 1 Vinesh Phogat | i) Athletics |
| 2 Manjit Singh | ii) Wrestling |
| 3 Amit Panghal | iii) Boxing |
| 4 Anjum Moudgil | iv) Shooting |
- a) 1 (ii) 2 (i) 3 (iii) 4(iv)
b) 1 (i) 2 (ii) 3 (iii) 4(iv)
c) 1 (iii) 2 (ii) 3 (i) 4(iv)
d) 1 (iv) 2 (ii) 3 (i) 4(iii)

100) What is S-400?

- a) Air defence missile system developed by Russia
- b) Air defence missile system developed by USA
- c) War tank developed by Russia
- d) Supersonic aircraft developed by France

101) Velocity of sound in air does not depend on:

- a) Density of air
- b) Temperature of air
- c) Pressure of air
- d) Humidity of air

102) Light Emitting Diode (LED) converts:

- a) Light energy into electrical energy
- b) Electrical energy into light energy
- c) Thermal energy into light energy
- d) Mechanical energy into electrical energy

- 103) Combustion is the process of conversion of which of the following energies?
- a) kinetic → potential
 - b) chemical → thermal
 - c) potential → chemical
 - d) None of these
- 104) Which one of the following is an element?
- a) Topaz
 - b) Diamond
 - c) Ruby
 - d) Sapphire
- 105) Iodised salt is a:
- a) Mixture of potassium iodide and common salt
 - b) Mixture of molecular iodine and common salt
 - c) Compound formed by combination of potassium iodide and common salt
 - d) Compound formed by combination of molecular iodine and common salt
- 106) Galvanised iron sheets are protected from rusting due to the presence of a layer of:
- a) Lead
 - b) Chromium
 - c) Zinc
 - d) Tin
- 107) Why are stainless steel cooking pans fabricated with copper bottom?
- a) Copper is cheaper
 - b) Conductivity of copper is more than the stainless steel
 - c) Copper increases durability of the cooking pan
 - d) Copper is a good reflector of heat

- 108) The sex of a newborn baby is determined by the chromosome inherited from:
- a) The mother
 - b) The father
 - c) Mother's mother
 - d) Father's father
- 109) Which of the following device was used in the first generation computer?
- a) Integrated circuit
 - b) Processor
 - c) Microprocessor
 - d) Vacuum tubes
- 110) In binary number system, a digit ranges from:
- a) 0 to 9
 - b) 0 to 1
 - c) 0 to 15
 - d) 0 to 7
- 111) Which among the following country hosted Asian Games 2018?
- a) Malaysia
 - b) Cambodia
 - c) Indonesia
 - d) Philippines
- 112) Name the next generation bullet-proof jacket developed by BARC.
- a) Bhabha Kavach
 - b) Homi Kavach
 - c) Mishra Dhatu Kavach
 - d) Raksha Kavach

- 113) Which international organisation recently adopted India's resolution on digital health?
- a) UN
 - b) WHO
 - c) IMF
 - d) UNICEF
- 114) Which city was named as the India's cleanest city, as per Swachh Survekshan-2018?
- a) Indore
 - b) Bhopal
 - c) Chandigarh
 - d) Jharkhand
- 115) Which state government is going to use robots to clean sewers?
- a) Maharashtra
 - b) Karnataka
 - c) Kerala
 - d) Andhra Pradesh
- 116) Where in Punjab is the first all-woman post office Passport Seva Kendra opened?
- a) Majitha
 - b) Barnala
 - c) Phagwara
 - d) Phillaur
- 117) NITI Aayog has collaborated with which company to develop precision agriculture using Artificial Intelligence?
- a) Tata
 - b) IBM
 - c) Reliance
 - d) Infosys

- 118) In which of following activities silicon carbide is used?
- a) Making cement and glass
 - b) Disinfecting pond water
 - c) Making casts for statues
 - d) Cutting very hard substances
- 119) Biological Oxygen Demand (BOD) is used as a standard measure of _____.
- a) Oxygen level in forest system
 - b) Oxygen level in animals
 - c) Oxygen level in water system
 - d) Oxygen level in atmosphere
- 120) What is the carbon credit?
- a) It is the difference between the carbon emission allowed and actually emitted carbon
 - b) It is the loan amount by IMF for reducing pollution
 - c) It is loan given to poor people for buying Modern Stoves
 - d) All of the above



- 121) Compounds of _____ cause Minamata disease.
- a) Mercury
 - b) Cadmium
 - c) Cobalt
 - d) Fertilizers
- 122) The Desert National Park (DNP) is one of the largest national parks found in India. Black buck is a common antelope of this region. DNP is located at:
- a) Gujarat
 - b) Haryana
 - c) Rajasthan
 - d) Assam
- 123) Major air pollutants from a coal fired thermal power station are fly ash and
- a) Ozone
 - b) Hydrogen Fluoride
 - c) Hydrogen Sulfide
 - d) Sulfur Dioxide
- 124) A battery or cell converts _____ energy into electrical energy
- a) Mechanical
 - b) Chemical
 - c) Biological
 - d) Hydrothermal
- 125) The mosquito repellent (coils, mats and liquids) that we generally use in our homes are:
- a) Insecticides
 - b) Germicides
 - c) Pesticides
 - d) Weedicides

126) Montreal Protocol is related to:

- a) Protection of wild life
- b) Reduction of Greenhouse Gases
- c) Protection of Ozone layer
- d) None of the above

127) Loktak lake is located in:

- a) Manipur
- b) Karnataka
- c) Himachal Pradesh
- d) Andhra Pradesh

128) Acid rain is caused by:

- a) Nitrogen oxide
- b) Sulphur oxide
- c) Carbon dioxide
- d) Both a) and b)

129) Who is the present Chief Election Commissioner of ECI (Election Commission of India)?

- a) A.K.Jyoti
- b) Sunil Arora
- c) Om Prakash Rawat
- d) Ashok Lavasa

130) Saikhom Mirabai Chanu is associated with _____ game.

- a) Tennis
- b) Weight lifting
- c) Swimming
- d) Badminton

- 131) What is “Dhanush”?
- a) Ballistic Missile
 - b) War Ship
 - c) Submarine
 - d) War Tank
- 132) Under “Adopt a Heritage Scheme” who will take care of Lal Killa of Delhi for next five years?
- a) Reliance Group
 - b) Tata Group
 - c) Dalmia Group
 - d) Sindhia Group
- 133) Development expenditure of the Central government does not include:
- a) Defense expenditure
 - b) Expenditure on economic services
 - c) Expenditure on social and community services
 - d) Grant to states
- 134) Who recommends the MSP and issue prices?
- a) Ministry of Agriculture
 - b) NITI Aayog
 - c) Commission for Agricultural Costs and Prices
 - d) NABARD
- 135) WTO overtook the role of which one of the following UN agency?
- a) GATT
 - b) UNCTAD
 - c) IMF
 - d) World Bank

136) Which of the following article is considered to be the soul of Indian Constitution?

- a) Right to Life
- b) Right to Education
- c) Right to Freedom
- d) Right to Constitutional Remedies

137) Who among the following President of India is/was elected unopposed?

- a) Dr. Rajendra Prasad
- b) Shri Neelam Sanjiva Reddy
- c) Dr. A P J Abdul Kalam
- d) Sh. Ram Nath Kovind

138) Match the following writs of the Indian Constitution with their applications:

	Articles		Description
i)	Habeas Corpus	1)	Command of the higher authority to the lower ones
ii)	Mandamus	2)	Wrongful confinement
iii)	Certiorari	3)	Illegal occupation of the public office
iv)	Quo Warranto	4)	Quashing the order of the lower authority

Choose the correct answer:

- a) (i) – (2), (ii) – (1), (iii) – (3), (iv) – (4)
- b) (i) – (2), (ii) – (1), (iii) – (4), (iv) – (3)
- c) (i) – (1), (ii) – (2), (iii) – (3), (iv) – (4)
- d) (i) – (4), (ii) – (2), (iii) – (3), (iv) – (1)

- 139) Which of the following schedules of the Indian Constitution deals with anti-defection provisions for Members of Parliament and Members of State Legislatures?
- a) Fifth Schedule
 - b) Sixth Schedule
 - c) Ninth Schedule
 - d) Tenth Schedule
- 140) Social audit is done by which one of the following institution at the local level in India?
- a) Gram Sabha
 - b) Village Panchayat
 - c) Panchayat Samiti
 - d) Zila Parishad
- 141) Election Commission of India is a:
- a) Constitutional body
 - b) Legal body
 - c) Statutory body
 - d) Extra Constitutional body
- 142) Which is the main function of Central Statistical Organization (CSO)?
- a) Price determination
 - b) Determination of money supply
 - c) Collection of data regarding employment
 - d) Collection of estimates of national income
- 143) Which of the above is/are correctly matched?
- 1. Yellow Revolution – Eggs
 - 2. Golden Revolution – Oilseeds
 - 3. Round Revolution – Potato
 - 4. Grey Revolution – Fertilizers

- a) 1 and 2
- b) 3 and 4
- c) 2, 3 and 4
- d) 1, 2 and 4

144) Central Employment Guarantee Council overlooks the progress of which among the following schemes?

- a) Food for Work Programme
- b) National Rural Livelihood Mission
- c) MGNREGA
- d) All of them

145) The term “Golden Revolution” is most closely related to which of the following missions?

- a) National Bamboo Mission
- b) National Mission on Clean Coal Technologies
- c) National Solar Mission
- d) National Horticulture Mission

146) Which among the given is the largest employer in India?

- a) Food Corporation of India
- b) Posts and Telegraphs Department
- c) Steel Authority of India
- d) Indian Railways

147) Fiscal deficit in the Union Budget means

- a) The difference between current expenditure and current revenue
- b) Net increase in Union Governments borrowings from the Reserve Bank of India
- c) The sum of monetized deficit and budgetary deficit

d) The sum of budgetary deficit and net increase in internal and external borrowings

148) At which of the following places in Punjab cotton mill is located?

- a) Mukerian
- b) Malout
- c) Goindwal Sahib
- d) Verka

149) For his unique courage and fighting qualities, who earned the affectionate honorific of Bagh (Tiger)?

- a) Jatindranath Mukherjee
- b) Rashbehari Bose
- c) Tarak Nath Das
- d) None of the above

150) Who amongst the following founded Theosophical Society in USA?

- a) Dr. Annie Besant
- b) Allan Octavin Hume
- c) Bal Gangadhar Tilak and Gopal Krishna Gokhale
- d) Madam Blavatsky and Olcott

151) The Battle of Wandiwash was fought between the

- a) Nizam of Hyderabad and the French
- b) English and the French
- c) English and Hyder Ali
- d) Nawab of Carnatic and the English

152) The 'Swadeshi' and 'Boycott' were adopted as methods of struggle for the first time during the

- a) Agitation against the partition of Bengal
- b) Home Rule Movement
- c) Non-Cooperation Movement
- d) Visit of the Simon Commission to India

153) What was the reason for Mahatma Gandhi to organise a Satyagraha on behalf of the peasants of Kheda?

1. The administration did not suspend the land revenue collection in spite of a drought
2. The administration proposed to introduce permanent Settlement in Gujarat.

Which of the statement (s) given above is/are correct?

- a) Only 1
- b) Only 2
- c) Both 1 and 2
- d) Neither 1 nor 2

154) During the freedom struggle, Aruna Asaf Ali was a major woman organiser of underground activities in

- a) Civil Disobedience Movement
- b) Non-Cooperation Movement
- c) Quit India Movement
- d) Swadeshi Movement

155) Which one of the following aroused a wave of popular indignation that led to the massacre by the British at Jallianwala Bagh?

- a) The Arms Act
- b) The Public Safety Act
- c) The Rowlatt Act
- d) The Vernacular Press Act

156) What was Komagata Maru?

- a) A political party based in Taiwan
- b) Peasant communist leader of China
- c) A naval ship on voyage to Canada
- d) A Chinese village where Mao Tse-tung began his long march

- 157) Which part of the Constitution of India, the Fundamental Duties are mentioned?
- a) Part III
 - b) Part IV
 - c) Part IVA
 - d) Part VI
- 158) Election to the office of the President is conducted by
- a) The Speaker of the Lok Sabha
 - b) The Prime Minister's office
 - c) The Minister for Parliamentary Affairs
 - d) The Election Commission of India
- 159) The Balwant Rai Mehta Committee was a committee on
- a) Democratic decentralisation
 - b) Panchayati Raj Institutions
 - c) Administrative arrangements for rural development
 - d) Community Development Programme
- 160) Kanjli Wetland is present in which district of Punjab?
- a) Kapurthala District
 - b) Moga District
 - c) Tarn Taran
 - d) Fazilka
- 161) Stagflation is a situation where
- a) High inflation combined with high unemployment
 - b) High unemployment in agriculture
 - c) Unemployment adjusted for seasonal fluctuations
 - d) High inflation which is structural in nature



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- 162) Who among the following is the Chairman of Rajya Sabha?
- a) Venkaiah Naidu
 - b) Dr. Manmohan Singh
 - c) Narendra Modi
 - d) Sumitra Mahajan
- 163) Who among the following is Leader of the Opposition in Punjab Legislative Assembly?
- a) Ajaib Singh Bhatti
 - b) Sukhpal Khaira
 - c) Rana K.P.Singh
 - d) Harpal Singh Cheema
- 164) Which among the following is the first crop genome to be sequenced?
- a) Bread wheat
 - b) Rice
 - c) Sugar beet
 - d) Maize
- 165) A two digit number is such that the product of the digits is 8. When 18 is added to the number, then the digits are reversed. The number is:
- a) 18
 - b) 24
 - c) 42
 - d) 81

- 166) The average marks of 10 students of a class is 26, where average marks of passed students is 80 and average marks of failed students is 20. Find the number of students who passed:
- a) 1
 - b) 2
 - c) 3
 - d) 4
- 167) The average monthly income of a person in a certain family of 5 members is Rs. 1000. What will be monthly average income of a person in the same family, if the income of one person is increased by Rs.12000 per year?
- a) Rs. 1200
 - b) Rs.1600
 - c) Rs.2000
 - d) Rs.3400
- 168) Five years ago, the average age of four men was 48 yr. Now, a new man joins and the average age increased by 2 yr. What is the age of the new man?
- a) 36 yr
 - b) 42 yr
 - c) 41 yr
 - d) 38 yr
- 169) A farmer is increasing the length of his rectangular field by 25% and reducing its breadth by 15% due to soil problem. What will be the percentage change in the area of the plot?
- a) 40%
 - b) 10%
 - c) 6.25%
 - d) 12.50

170) A pot is filled with alcohol. 80% of alcohol is replaced by the same quantity of water. This process is done three times. Then find the percentage of alcohol in this mixture of alcohol and water:

- a) 0.8%
- b) 0.4%
- c) 0.16%
- d) 0.32%

ANSWER KEY

Q.	A.	Q.	A.	Q.	A.	Q.	A.	Q.	A.
1	B	2	C	3	A	4	A	5	A
6	B	7	D	8	C	9	A	10	C
11	B	12	C	13	A	14	C	15	A
16	B	17	D	18	C	19	C	20	A
21	A	22	D	23	C	24	C	25	D
26	B	27	A	28	C	29	B	30	C
31	C	32	D	33	D	34	D	35	B
36	B	37	A	38	A	39	A	40	B
41	B	42	A	43	B	44	A	45	C
46	C	47	C	48	C	49	D	50	C
51	D	52	B	53	C	54	A	55	B
56	C	57	B	58	A	59	D	60	B
61	A	62	A	63	B	64	D	65	D
66	B	67	B	68	C	69	A	70	D
71	C	72	A	73	A	74	D	75	B
76	D	77	A	78	C	79	A	80	B
81	C	82	B	83	A	84	D	85	D
86	D	87	B	88	B	89	A	90	D
91	B	92	C	93	D	94	A	95	B
96	D	97	B	98	B	99	A	100	A
101	C	102	B	103	B	104	B	105	A

106	C	107	B	108	B	109	D	110	B
111	C	112	A	113	B	114	A	115	C
116	C	117	B	118	B	119	C	120	A
121	A	122	C	123	D	124	A	125	D
126	C	127	A	128	D	129	C	130	B
131	A	132	C	133	A	134	C	135	A
136	D	137	B	138	B	139	D	140	A
141	A	142	D	143	B	144	C	145	D
146	D	147	D	148	B	149	A	150	D
151	B	152	A	153	A	154	C	155	C
156	C	157	C	158	D	159	D	160	A
161	A	162	A	163	D	164	B	165	B
166	A	167	A	168	D	169	C	170	A

Some answers have been updated in view of latest changes..!!

SOLUTIONS

1) S.P = Rs. 495
L = 10%
C.P = ?
$$C.P = 495 \times \frac{100}{90} = Rs.550$$

2) Boys , Girls
50 , 45
Ratio
50 : 45
10 : 9

3)

$$\begin{array}{l} 20 : 39 \\ 59 = 295 \\ 1 = 5 \\ 100, 195 \end{array}$$

4) By option, only option (a) satisfies.

5)

$$\begin{array}{ccc} \text{Rs. 7.50} & & \text{Rs. 10} \\ & \searrow & \swarrow \\ & \text{Rs. 8.25} & \\ & \swarrow & \searrow \\ 1.75 & : & .75 \\ 175 & : & 75 \\ 7 & : & 3 \end{array}$$

6)

$$\begin{array}{l} A + B = 12 \\ A = 24 \end{array} \begin{array}{c} \searrow \\ 24 \\ \swarrow \end{array} \begin{array}{l} 2 \text{ Units} \\ 1 \text{ Units} \end{array}$$

\therefore B's 1 day work = 1 unit

$$B = \frac{24}{1} = 24 \text{ days}$$

7)

$$\begin{array}{l} A + B = 5 \text{ days} \\ B + C = 3 \text{ days} \\ C + A = 6 \text{ days} \end{array} \begin{array}{c} \searrow \\ 30 \text{ Units} \\ \swarrow \end{array} \begin{array}{l} 6 \text{ Units} \\ 10 \text{ Units} \\ 5 \text{ Units} \end{array}$$

$2(A + B + C)$'s 1 day work = 21 Units

$(A + B + C)$'s 1 day work = $\frac{21}{2} = 10.5$ Units

$$\text{Days} = \frac{30}{21} \times 2$$

$$\Rightarrow \frac{60}{21} = \frac{20}{7} = 2\frac{6}{7} \text{ days}$$

8)

$$\begin{array}{l} 5M = 8W = 8 \text{ days} \\ 8W + 15M = ? \\ \downarrow \\ 5M + 15M = ? \end{array}$$

$$20M = ?$$

$$M_1 D_1 = M_2 D_2$$

$$5 \times 8 = 20 \times ?$$

2 days

$$\text{But double work} = 2 \times 2 \text{ days} = 4 \text{ days}$$

$$9) \quad \frac{15 \times 8 \times 5}{xRs} = \frac{6 \times 5 \times 10}{(1200 - x)}$$

$$2400 - 2x = x$$

$$2400 = 3x$$

$$x = 800$$

$$10) \quad \frac{1}{5}, \frac{1}{2}, \frac{5}{4}, \dots$$

GP Series

$$\frac{2nd}{1st} = \frac{3rd}{2nd} \Rightarrow$$

$$S_n = \frac{a \times (r^n - 1)}{r - 1}$$

$$= \frac{\frac{1}{5} \times \left(\left(\frac{5}{2} \right)^5 - 1 \right)}{\frac{3}{2}}$$

$$= 12.88$$

a – 1st term

n – 5th term

r – Common ratio

11) Entomology is a branch of science that deals with study of Insects.

12) 3252 : 4044 :: 5757 : 5469

$$\begin{array}{l|l} 3 + 2 + 5 + 2 = 12 & 5 + 7 + 5 + 7 = 24 \\ 4 + 0 + 4 + 4 = 12 & 5 + 4 + 6 + 9 = 24 \end{array}$$

13)

$$\begin{array}{cc} \begin{array}{c} 10 \quad 12 \\ J \quad L \\ \text{+2} \end{array} & \& \quad \begin{array}{c} 25 \quad 26 \\ W \quad Z \\ \text{+1} \end{array} \\ \begin{array}{c} 1 \quad 3 \\ A \quad C \\ \text{+2} \end{array} & \& \quad \begin{array}{c} 18 \quad 21 \\ R \quad U \\ \text{+1} \end{array} \end{array}$$

Gap between the letters is same.

14)

$$\begin{array}{ccc} D & E & : & 10 & :: & H & I \\ 4 & 5 & & & & 8 & 9 \end{array}$$

$$4 \times 5 = \frac{20}{2} = 10$$

$$8 \times 9 = \frac{72}{2}$$

$$= 36$$

15)

$$\begin{array}{ccc} RACK : 33 & :: & BOTTLE : 74 \\ 18 \ 1 \ 3 \ 11 & & 2 \ 15 \ 20 \ 20 \ 12 \ 5 \\ 18+1+3+11=33 & :: & 2+15+20+20+12+5=74 \end{array}$$

16)

$$7 \quad 11 \quad 13 \quad (15) \quad 19 \quad 23$$

Prime number series so 15 is not Prime Number.

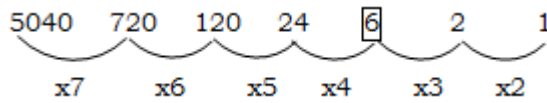
17)

$$\begin{array}{ccccccc} 3 & 6 & 9 & 12 & 15 & 18 & 21 \\ \text{+3} & \text{+3} & \text{+3} & \text{+3} & \text{+3} & \text{+3} & \end{array}$$

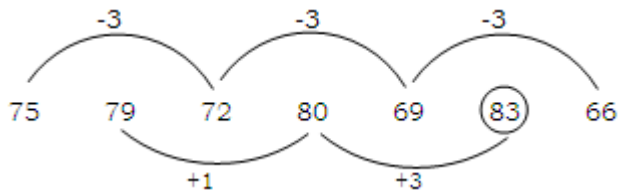
18)

$$\begin{array}{ccccccc} 105 & 104 & 101 & 96 & 89 & 80 \\ \text{-1} & \text{-3} & \text{-5} & \text{-7} & \text{-9} & \end{array}$$

19)



20)



83 is wrong number.

21)

$$\begin{array}{cccc} 14 & 1 & 13 & 5 \\ N & A & M & E \end{array} \quad \begin{array}{cccc} 20 & 5 & 1 & 13 \\ T & E & A & M \end{array}$$

$$+ \frac{13}{27} \frac{26}{27} \frac{14}{27} \frac{22}{27} + \frac{7}{27} \frac{22}{27} \frac{26}{27} \frac{14}{27}$$

Sum of opposite letter.

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22)

5+12+20+13 — 50
E L T M

Y Z N P
25+26+14+16 — 81

Sum of digit

23)

A M L X E
8 9 2 1 5

Letters	X	S	M	A	P	E	D	L	W	T
Digit	1	6	9	8	3	5	0	2	4	7

25) BRANCH

26) Elector is 2nd place.

27) 1, 3, 4, 2

(28 – 31):

Husband	Wife	Nickname
Anil	Jyoti	Babboo
Mukesh	Arti	Pappoo
Piyush	Sunanda	Prince
Yogesh	Madhu	munna

(32 – 35):

- 32) Option (a) G, L, O-violates condition (ii).
Option (b) G, J, M – violates conditions (iv).
Option (c) K, I, M-violates conditions (i).
Option (d) N, I, J – complies with all the conditions.

- 33) Since M must appear on the second panel (condition iv), J will have to appear along with H on 3rd panel. Therefore, both J and H can't appear on different panels.
- 34) Combination of G, J, I violates condition (i) which requires the combination of I with N.
- 35) If one of the panelists is K, other would be L as given condition (ii). I can't appear with K and L because I always appears with N [refer condition (i)] and there can't be more than three panelists.
- 36) Today 30 days
1 – Saturday
8 – Saturday
15 – Saturday
22 – Saturday
29 – Saturday
We have Five Saturday in 30 days so Also we have Five Sunday and every 2nd Saturday is holiday so total we have $(5 + 2) = 7$ holiday $7 - 30 = 23$ working day's.
- 37) Today day's in a month – 31 days
Wed – 1
1st → Thur – 2
2nd → Thur – 9
3rd → Thur – 16
Thur – 23
Thur – 30

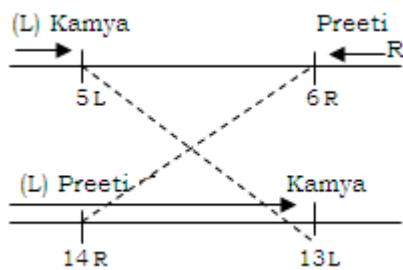
Fri - 31

Ans. 5th Friday

- 38) Roshan
 Susheel
 Hardik
 Niza
 Harry

- 39) C
 D
 A
 E
 B

40)



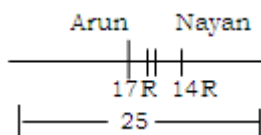
$$T = L + R - 1$$

$$= 6 + 13 - 1 = 18$$

$$T + 1 - L = R$$

$$18 + 1 - 5L = 14R$$

41)



$$T + 1 - R = L$$

$$25 + 1 - 17R = 9$$

42)

2012 - 10 Lakh unit
 2011 - 9 Lakh unit] Difference 1 lakh

Difference is unit is one lakh

$$\text{So } \frac{100000}{900000} = 11\%$$

43)

$$\text{Net Effect } \frac{(x-y)(xy)}{100}$$

$$(20-20) \frac{(20 \times 20)}{100} = 4\%$$

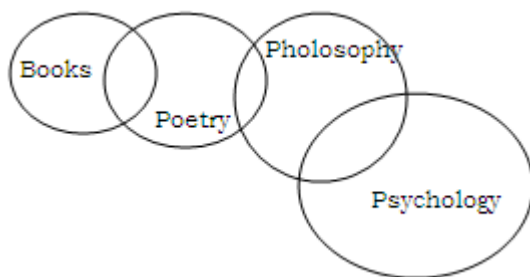
44)

$$\frac{14}{340}, \frac{34}{602}, \frac{29}{571}, \frac{41}{741}$$

$$\frac{14}{340} \rightarrow \text{Lighest No.}, \frac{34}{602} \rightarrow \text{Lowest No.}$$

45) From statement 1 we can say that difference between the numbers is 6. From statement 2 alone or 3 alone we can find the ratio of the two numbers. So, if statement 1 is combined with either statement 2 or statement 3 we can get the final answer.

46)



47)

1 5 13 25 41 (61)

$$1 + 4 = 5$$

$$5 + 8 = 13$$

$$13 + 12 = 25$$

$$25 + 16 = 41$$

$$41 + 20 = 61$$

- 48) Spear means is a throwing weapon with long shaft and sharp head.
- 49) Den means the home of some kind of wild animals. Burrow means Tunnel in the ground that animal rabbit makes to live in.
- 50) Chip – a small piece that has been broken off from something large.
C rumb is very small piece of food.

Gyanम्

Our Shining Stars



PANKUSH
PANCHAYAT SEC.



PUNEET SINGH
PSPCL - CLERK

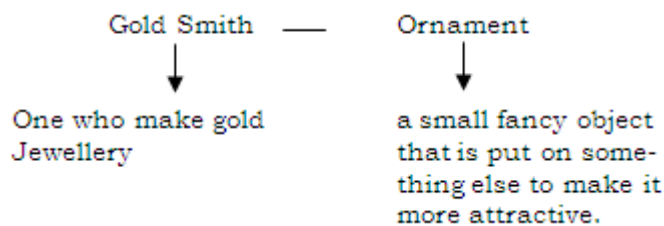


SHAMINDER SINGH
REVENUE PATWARI

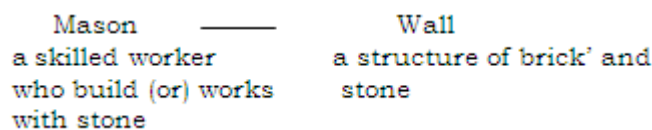
Gyanम्

- 51) Saw is sharp used for cut the wood.
 Needle has very sharp point at one end and a hold for thread.
- 52) Bird fly in sky.
 So snake is crawl
- 54) Pancreas a large gland of the body that is near the stomach. So
 ADRENAL is GLAND
- 55) Marmalade a sweet Jelly that contains pieces of fruit.
- 56) Bituminous Related to Coal
 Anthracite a hard type of coal that burn slowly

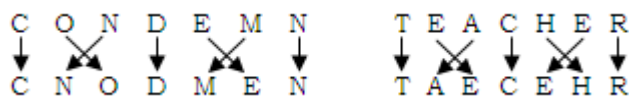
59)



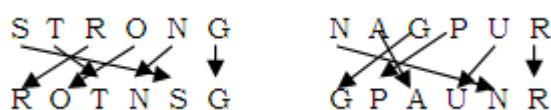
60)



61)



62)



63)

1	2	3	4	5	6	1	2	3	4	5	6
<u>VI</u>	<u>SH</u>	<u>WA</u>	<u>NA</u>	<u>TH</u>	<u>AN</u>	<u>KA</u>	<u>RU</u>	<u>NA</u>	<u>KA</u>	<u>RA</u>	<u>NA</u>
<u>NA</u>	<u>AW</u>	<u>TH</u>	<u>HS</u>	<u>AN</u>	<u>IV</u>	<u>KA</u>	<u>AN</u>	<u>RA</u>	<u>UR</u>	<u>NA</u>	<u>AK</u>
4	3	5	2	6	1	4	3	5	2	6	1

Divide the word into set of two letters each and label these set from 1 to 6. Then the code contain these set 4, 3, 5, 2, 6, 1 with the letter of set 3, 2, 1 written in reverse.

(64 – 67):

<u>Maharashtra</u>	<u>Uttar Pradesh</u>	<u>West Bengal</u>	<u>Andhra Pradesh</u>
White	green	red	Yellow
	(runner up)		winner

(68 – 72):

Deepti
 Anita
 Mahima
 Rajan
 Lata

(73 - 82):

First we arrange the given information as shown below:

A has 2 chessboards + 1 record player

∴ Cost = 2 x 500 + 1 x 2000 = 3000 (at the beginning)

After transaction he has only 1 cycle 1 chessboard

∴ Total Cost = 1000 + 500 = 1500

So, loss of A = 1500

C has 1 cycle + 1 walkman

∴ Cost = 1000 + 700 = 1700 (At the beginning)

After transaction he has only 1 bat and 1 chessboard and 1 camera

∴ Total cost = 1 bat + 1 chessboard + 1 camera = 700 + 500 + 1500 = 2700

∴ Profit = 1000

B has 3 bats

∴ Total cost = $3 \times 700 = 2100$ (at the beginning)

After transaction he has only 1 record player and 1 bat

∴ Total cost = $2000 + 700 = 2700$

∴ Profit of B = 600

D has 2 cameras

Cost = 5000 (at the beginning)

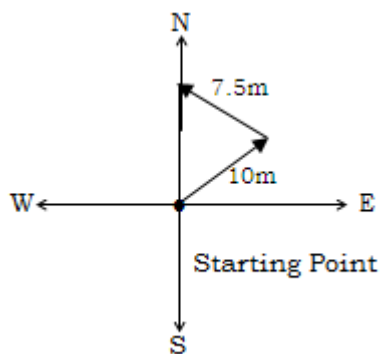
After transaction he has only 1 bat 1 camera and 1 walkman

∴ Total cost = 1 bat + 1 camera + 1 Walkman

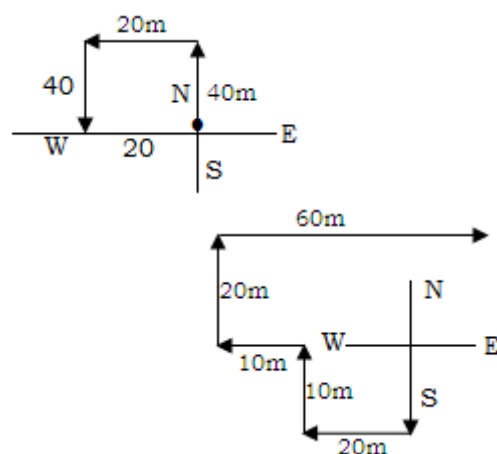
= $700 + 3500 + 700 = 4900$

∴ Loss = 100

83)



84)



86) Logical order

Finger → Palm → Wrist → Elbow → Shoulder

87) Logical order

Sand → Iron → Gold → Diamond → Platinum

88)

Rahul Karun
x 3x

It is given that the age of Karun is 12 yr

$$\therefore 3x = 12$$

$$x = 4$$

By Putting the value of x in the age of Rahul & Karun

\therefore Rahul = Karun
4 12

Let x year Karun will be twice of his brother age of Karun

+ x year = 2 (age of Rahul + x year)

$$12 + x = 2(4 + x)$$

$$12 + x = 8 + 2x \quad x = 4$$

$$\text{age of Rahul after 4 year} \quad 12 + 4 = 16 \text{ Ans.}$$

89) Let the age difference be n.

Father present age is 36 and that of the son is

$$36 - n$$

When the son's age is 0, Father age was 36 - n

$$36 - n - n = 0$$

$$n = 18$$

Present age of son is 36 - n = 18 and five year ago he was 18 - 5 = 13 Ans.

90) No. of people only watching 65% - 25% = 40%

No. of people reading 40% - 25% = 15%

\therefore Total no. people busy is

$$40\% + 15\% + 25\% = 80\%$$

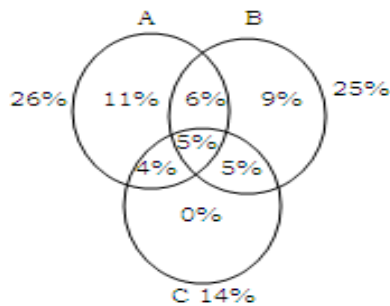
Now 100% - 80%

$$= 20\% \text{ Ans}$$

- 91) Total = 15 7 read French 8 read English
 3 of them read none $15 = 7 + 8 - x + 3$
 $x = 3$

(92 – 94):

A – 26% B – 25% C – 14%
 A & B – 11% B & C – 10% C & A – 9% C only 0%



Find the intersection of all the three, then find the intersection of AB, B C & CA

(165 – 170):

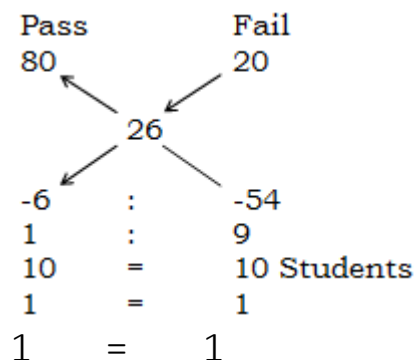
- 165) Go through options., as options (b) satisfy.

$24 \rightarrow$ product is 8.

If 18 added to $24 = 42$

That is reverse of 24.

166)



∴ 9 students are Fail
1 student is Pass

167) 5 members \times 1000 = 5000 Rs.

1 person income is increased = $\frac{\text{Rs.}12000}{12} = 1000 \text{ per month.}$

5 members = 6000 Rs.

$$1 = \frac{6000}{5} = 1200 \text{Rs}$$

168) 5 years ago, the avg age of four men = 48 yr.

Total = $48 \times 4 = 192$ yr

Today's = $192 + 20$

Total = 212 yr

The avg of 5 men = 50 yr

Total = 250 yr

New man = 38 yr

169) $25\% = \frac{1}{4}$ $15\% = \frac{3}{20}$

$$\begin{array}{r} 4 \qquad 5 \\ \frac{20}{80} \quad \frac{17}{85} \end{array}$$

$$\frac{5}{80} \times 100 = 6.25\%$$

170) %age of alcohol = $\frac{1}{5} \times \frac{1}{5} \times \frac{1}{5} \times 100\% = 0.8\%$

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