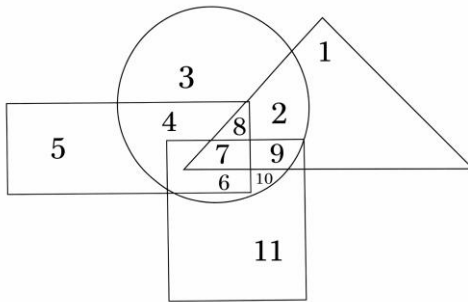


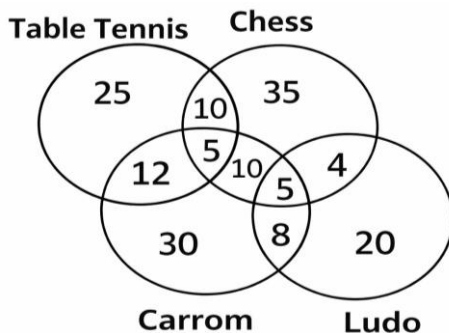
Ques 1 (Slot 3): In the following figure, rectangle, square, circle, and triangle represent the region of wheat, gram, maize and rice cultivation respectively.



Which area is cultivated by all four commodities?

A) 7 B) 8 C) 4 D) 2 E) 1

Ques 2 (Slot 6): The following diagram shows the number of people who play table tennis, Chess, Carrom and Ludo.



If the total number of people is 600, then what is the number of people who play Chess and Ludo but not carrom? A) 12 B) 14 C) 5 D) 4 E) 3

Ques 3 (Slot 1): In a row of girls, Rimmi and Mimmi occupy ninth place from right end and tenth place from left end respectively. If they interchange their positions then Rimmi and Mimmi will occupy seventeenth place from right end and eighteenth place from left end respectively. How many girls are there over all in all the given row? A) 18 B) 27 C) 26 D) 25 E) 35

Ques 4 (Slot 6): In a class, Samiksha ranks 12th from the top. Divya is 12 ranks ahead of Medha and 5 ranks behind Samiksha. Reshma who is 7th from the bottom is 29 ranks behind Medha. How many students are there in class? A) 60 B) 57 C) 66 D) 64 E) 63

Ques 5 (Slot 2): ABCDEFGHIJKLMNOPQRSTUVWXYZ. If the series is written in reverse, which will be the eighth letter to the right of O? A) I B) G C) Q D) H E) S

Ques 6 (Slot 6): If all the letters of the word 'ALLITERATION' are arranged in the alphabetical order, then the position of how many letters will remain

unchanged? A) None B) One C) Three D) Two E) More than three

Ques 7 (Slot 3): Find the next in the series 2Z5, 7Y7, 14X9, 23W11, 34V13, ?

A) 27U24 B) 45U15 C) 47U15 D) 47V14 E) 23X7

Ques 8 (Slot 2): Find the next in the series Q1F, S2E, U6D, W21C, ?

A) Z88B B) Y88B C) Y66B D) Z44A E) Y44B

Ques 9 (Slot 1): Find the missing number 6 : 222 :: 7 : ?

A) 350 B) 225 C) 349 D) 210 E) 343

Ques 10 (Slot 5):

Eye: Myopia:: Teeth : ?

A) Pyorrhoea B) Cataract C) Trachoma D) Eczema E) Psoriasis

Ques 11 (Slot 3): Choose the number letter group which is different from the others. A) 18R B) 24X C) 22V D) 12M E) 16P

Ques 12 (Slot 4): Choose the number pair/group which is different from others. A) 70-80 B) 54-62 C) 28-32 D) 21-24 E) 14-16

Ques 13 (Slot 5): A number arrangement machine, when given a particular input, rearranges it following a particular rule. The following is an illustration of the input and the stages of arrangement.

Input : 245, 316, 436, 519, 868, 710, 689

Step I 710, 316, 436, 519, 868, 245, 689

Step II 710, 316, 245, 519, 868, 436, 689

Step III: 710, 316, 245, 436, 868, 519, 689

Step IV: 710, 316, 245, 436, 519, 868, 689

Step IV is the last step of input. How many steps will be required to get the final output from the following input ?

Input: 544, 653, 325, 688, 461, 231, 857.

How many steps will be required to get the final output? A) 4 B) 5 C) 6 D) 3 E) 2

Ques 14 (Slot 6): When a word and number arrangement machine is given an input line 10 words and numbers, it arranges them following a particular rule. The following is an illustration of input and the rearrangement

INPUT - 3846 9231 7283 4731 8152 3285

STEP 1 - 3468 1239 2378 1347 1258 2358

STEP II - 1239 1258 1347 2358 2378 3468

STEP III - 23 25 34 35 37 46

STEP IV - 5 7 7 8 10 10

Step IV is the last step of the rearrangement. As per the rules followed in the above steps, find out in each of the following questions the appropriate steps for the given input.

INPUT-3846 9231 7283 4731 8152 3285...

What will be the addition of the numbers which is second, fourth, sixth and eighth from the left end in step IV? A) 32 B) 23 C) 38 D) 28 E) 25

Ques 17 – 18

Based on the criteria and the information provided below, assess the given candidate's eligibility or potential and thereby decide the action to be taken from among the given alternatives.

A public charitable trust desires to select Medical Officers for its rural hospital based on the following criteria:

The applicant must:

- (i) be holding MBBS degree with a minimum of 50% marks
- (ii) have a minimum of 4 years of experience of full-time practice in rural areas
- (iii) be ready to execute a bond of 3 years of service
- (iv) have good knowledge of the local language

In the case of the applicant who satisfies all other criteria except:

- (A) at (ii) above, but has 4 years of full-time experience of practice either urban or semi-urban areas and spent at least 5 years in rural areas any time during his life, be referred to Secretary of the Trust
- (B) at (iv) above, but has working knowledge of Hindi be referred to Assistant Secretary of the Trust
- (C) at (i) above, but has a minimum of 45% marks at MBBS and has done M.S. or M.D., with a minimum of 50%, be referred to the Chief Medical Officer (C.M.O.)
- (D) at (iii) above, but is ready to give Rs. 25,000 as security money, be referred to the President of the Trust

Ques 17 (Slot 4): Case: Gauri did her M.D. after doing her MBBS... SSC 77%, HSC 88%, MBBS 47%, M.D. 56%. What action is taken? A) To be selected B) Not to be selected C) Refer to Assistant Secretary D) Data inadequate E) Refer to the CMO

Ques 18 (Slot 4): Case: Raghav studied in rural areas... MBBS in Mumbai and 6 years practice in big city... M.S. with 53% marks. A) To be selected B) Not to be selected C) Refer to Assistant Secretary D) Data inadequate E) Refer to the CMO

Ques 19 (Slot 1): Fifteenth August, 1947 was a Friday. Determine the day of the week on the Twenty-Sixth of January, 1957? A) Saturday B) Friday C) Sunday D) Thursday E) Tuesday

Ques 20 (Slot 3): If the day before yesterday was Saturday, what day will fall on the day after tomorrow? A) Friday B) Thursday C) Wednesday D) Tuesday E) Sunday

Ques 21: (slot 5) A word and number arrangement machine rearranges an input line of words and numbers following a particular rule at each step.

Input: exam 81 56 over down up 16 64

Step I: down exam 81 56 over up 16 64

Step II: down 81 exam 56 over up 16 64

Step III: down 81 exam 64 56 over up 16

Step IV: down 81 exam 64 over 56 up 16

Step IV is the last step.

As per the rule followed above, answer the following for the new input: Input: 98 11 64 22 but will an it
Question: Which of the following will be step VI?

- A) an 98 but 64 it 22 11 will
- B) an 98 but 64 it 22 will 11
- C) an 11 but 22 it 64 will 98
- D) an 11 but 22 it 64 98 will
- E) Step VI does not exist.

Ques 22 (Slot 1): A clock is set right at 8 AM. This clock gains 10 minutes in 24 hours. What is the true time when the clock indicates 11 AM? A) 11:59:35 B) 10:50:45 C) 11:58:45 D) 10:58:45 E) 10:58:40

Ques 23 (Slot 2): Determine the number of times the hour and minute hand overlap between given dates. A) 89 B) 45 C) 50 D) 66 E) 25

Solutions

Q1 – A) Common overlap region of all four shapes gives the central value → clearly marked as 7 in diagram. No calculation, direct Venn intersection.

Q2 – D) Required region = Chess $\cap$ Ludo excluding Carrom → isolate that part in diagram → value = 4

Q3 – C) Use total = left + right – 1; from swapped positions form equations → consistent total comes out as 26.

Q4 – D) Convert all to top ranking → Samiksha 12th, Divya 17th, Medha 29th, Reshma 58th → total = 64.

Q5 – B) Reverse alphabet → Y...A; from O move 8 steps right → reach G.

Q6 – D) Arrange alphabetically and compare positions
ALLITERATION
AAEILLNORTT → only 2 letters remain unchanged.

Q7 – C) First numbers increase by +5, +7, +9, +11, +13 → 47; letters go backward → U; last numbers +2 → 15.

Q8 – B) First letters +2 → Y; numbers follow $\times$ pattern → 88; last letters –1 → B.

Q9 – A) Pattern = $n^3 + n \rightarrow 6^3 + 6 = 222 \rightarrow 7^3 + 7 = 350$.

Q10 – A) Myopia is eye disease → analogous teeth disease is Pyorrhoea.

Q11 – D) In all pairs number = alphabet position except 12M (M=13) → mismatch.

Q12 – B) All pairs follow ratio 7:8 except 54:62 → not same ratio.

Q13 – B) Sorts numbers based on sum of digits (ascending).

Input: 245, 316, 436, 519, 868, 710, 689

Step I: 710 (Smallest digit sum: $7+1+0=8$) is moved to the 1st position.

Step II: 316 (Next smallest sum: $3+1+6=10$) is moved to the 2nd position.

Step III: 245 (Next smallest sum: $2+4+5=11$) is moved to the 3rd position.

Step IV: 436 (Next smallest sum: $4+3+6=13$) is moved to the 4th position.

544(13), 653(14), 325(10), 688(22), 461(11), 231(6), 857(20)

Step 1: 231, 653, 325, 688, 461, 544, 857

Step 2: 231, 325, 653, 688, 461, 544, 857

Step 3: 231, 325, 461, 688, 653, 544, 857

Step 4: 231, 325, 461, 544, 653, 688, 857

Step 5: 231, 325, 461, 544, 653, 857, 688

Q14 – E) 40

Step I In each number all digits are arranged in ascending order.

Step II All the numbers are arranged in ascending order

Step III middle to terms of each number is considered.

Step IV Digits of each number are added

Input 7925 4758 2538 5628 8561 7426 3625 6245

Step I: Arrange digits of each number in ascending order → 3846→3468, 9231→1239, 7283→2378, 4731→1347, 8152→1258, 3285→2358

Step II: Arrange all numbers in ascending order → 1239, 1258, 1347, 2358, 2378, 3468

Step III: Take middle two digits of each → 1239→23, 1258→25, 1347→34, 2358→35, 2378→37, 3468→46

Step IV: Add digits → 23→5, 25→7, 34→7, 35→8, 37→10, 46→10

Required positions → 2nd = 7, 4th = 8, 6th = 10 → Sum = 25

Q17 – E) MBBS <50 fails main rule but MD >50 satisfies exception → refer to CMO.

Q18 – A) Rural condition satisfied + sufficient experience → qualifies directly.

Q19 – A) Total odd days = 1 → Friday +1 = Saturday.

Q20 – C) Day before yesterday = Sat → today = Mon → day after tomorrow = Wed.

Q21 – E) The machine picks the word starting with the earliest alphabet (ascending) and places it at the front, followed by the highest number available (descending). It repeats this alternating word-number pattern.

Q22 – D) Clock gains → actual time slower → adjust proportion → $\approx 10:58:45$.

Q23 – D) 22 overlaps per day → 3 days ≈ 66 overlaps.