

MODEL SOLVED PAPER 17.04.2011

UTTARANCHAL GRAMIN BANK
OFFICER EXAM

REASONING

- How many meaningful English words can be formed with the letters NCEO using each letter only once in each word ?
(1) None (2) One
(3) Two (4) Three
(5) More than three
 - The positions of first and the fourth letters of the word LIQUID are interchanged, similarly, the positions of second and fifth letters and third and Sixth letters are interchanged. In the new arrangement thus formed, how many letters are there in the English alphabetical series between the alphabets which are at the extreme ends?
(1) None (2) Two
(3) Three (4) Four
(5) More than four
- Directions (3-4):** Study the following information to answer the given questions :
- Point P is 5 m towards the South of Point M. Point Q is 3 m towards the East of Point P. Point O is 3 m towards the East of Point M. Point N is 2 m towards the South of Point Q.
- A person, facing North, takes a left turn from point M, walks 4m and stops. He then takes another left turn, walks 5 m and stops at point R. Which of the following points, including R, fall in a straight line ?
(1) M, O, R (2) N, R, P
(3) R, O, Q (4) R, Q, N
(5) Q, P, R
 - How far and towards which direction is Point O from Point N ?
(1) 5 m towards South
(2) 7 m towards North
(3) 8 m towards West
(4) 7 m towards West
(5) 5 m towards North

Directions (5-7): The following questions are based upon the alphabetical series given below:

T J E N U Q A K I O G R M S P
B H F D L V C

- If 'OD' is related to 'GF' and 'EB' is related to 'NP' in a certain way, to which of the following is 'AL' related to, following the same pattern ?
(1) KD (2) QV
(3) KL (4) KV
(5) DQ
- What will come in place of question mark (?) in the following series based on the above alphabetical series?
TE JU NK ? GH
(1) IS (2) IR
(3) AG (4) AR
(5) AM
- If in a certain code 'GRIM' is coded as 'RMOS' and 'DUSK' is coded as 'LQPI' how will 'STOP' be coded in the same code language?
(1) MJIS (2) PJGB
(3) JPJIS (4) MJGB
(5) PGJB
- Among five friends, P, Q, R, S and T, each scored different marks in the examination. P scored more than Q but less than R. S scored more than only T. Who amongst the following scored the second highest marks?
(1) P (2) Q
(3) R (4) S
(5) T
- If each of the alphabets of the word MIRACLE is arranged in alphabetical order from left to right and then each vowel in the new word thus formed is changed to the next letter in the English alphabetical series and each consonant is changed to the previous letter in the English alphabetical series which of the following will be fifth from the right?
(1) K (2) S
(3) F (4) E
(5) J
- How many such pairs of letters are there in the word INCLUDE,

each of which has as many letters between them in the word (in both forward and backward directions) as they have between them in the English alphabetical order?

- (1) None (2) One
(3) Two (4) Three
(5) More than three

Directions (11-15) : In these questions, relationship between different elements is shown in the statements. The statements are followed by conclusions.

Give answer (1) if only Conclusion I is true.

Give answer (2) if only Conclusion II is true.

Give answer (3) if either Conclusion I or II is true.

Give answer (4) if neither Conclusion I nor II is true.

Give answer (5) if both Conclusions I and II are true.

11. Statements:

$A \geq E > I ; E = 0 < U$

- Conclusions :** I. $A \geq U$
II. $U > I$

12. Statements:

$B < C = D \geq E ; C < F ; B \geq G$

- Conclusions :** I. $F > E$
II. $G \geq E$

13. Statements:

$P = Q > R \leq S ; Q < T \leq U$

- Conclusions :** I. $U \geq R$
II. $T < S$

14. Statements :

$H \geq J \geq I < K = L$

- Conclusions:** I. $I < H$
II. $L > I$

15. Statements:

$M > N = 0 \leq P ; N > Q : P \leq R$

- Conclusions :** I. $M \geq Q$
II. $R \geq N$

Directions (16-20) : Study the following information to answer the given questions:

P, Q, R, S, T, V, W and X are seated in a straight line facing North. T sits fourth to the left of W.

Neither T nor W sits at the extreme end of the line. Only one person sits between X and R. Neither X nor R is an immediate neighbour of W. P sits second to the right of X. Only two people sit between P and S. Q is not an immediate neighbour of S.

16. What is the position of V with respect to Q ?

- (1) Fifth to the right
- (2) Immediate neighbour
- (3) Second to right
- (4) Third to right
- (5) None of these

17. Which of the following represents persons seated at the two extreme ends of the line?

- (1) S, R
- (2) Q, S
- (3) R, P
- (4) X, Q
- (5) V, X

18. How many persons are seated between R and P ?

- (1) One
- (2) Two
- (3) Three
- (4) Four
- (5) None

19. If T is related to V and Q is related to P in a certain way, to which of the following would X be related to following the same pattern?

- (1) Q
- (2) T
- (3) R
- (4) S
- (5) W

20. Who amongst the following sits exactly in the middle of the persons who sits fifth from the left and the person who sits sixth from the right?

- (1) P
- (2) Q
- (3) T
- (4) S
- (5) V

Directions (21-25) : Study the following information to answer the given questions:

In a certain code 'support the other group' is written as 'ja pe la no' 'the mission gains support' is written as 'ke ja zi la', 'gains other than money' is written as 'fu no ho zi' and 'more support and money' is written as 're qi fuja' .

21. What is the code for 'group' ?

- (1) ja
- (2) pe
- (3) la
- (3) no
- (5) Cannot be determined

22. What does 'zi' stand for ?

- (1) mission
- (2) than
- (3) other
- (4) the
- (5) gains

23. Which of the following may represent 'more than the group'?

- (1) la qi ho pe
- (2) re la qi ho
- (3) re no la pe
- (4) pe ke qi la
- (5) qi ho la fu

24. What is the code for 'mission'?

- (1) la
- (2) zi
- (3) ke
- (4) ja
- (5) ke or la

25. Which of the following may represent 'money matters more'?

- (1) fue re bu
- (2) re bu qi
- (3) zi qi yo
- (4) yo fu no
- (5) la fu bu

Directions (26 - 32): Study the following information carefully and answer the given questions.

Nine friends A, B, C, D, E, F, G, H and K are sitting around a circle facing the centre. A sits second to left of D. K sits third to right of F. Neither K nor F is an immediate neighbour of A or D. G and H are immediate neighbours of each other. E sits third to right of H. B is not an immediate neighbour of F.

26. What is the position of F with respect to the position of B ?

- (1) Second to the right
- (2) Third to the left
- (3) Second to the left
- (4) Third to the right
- (5) Sixth to the right

27. Who amongst the following is an immediate neighbour of H ?

- (1) C
- (2) B
- (3) K
- (4) F
- (5) A

28. Starting from A, if all the friends are made to sit in the alphabetical order in clockwise direction, the positions of how many (except A) will remain unchanged ?

- (1) None
- (2) One
- (3) Two
- (4) Three
- (5) Four

29. H is related to C and B is related to E in a certain way. To whom amongst the following is G related following the same pattern ?

- (1) F
- (2) H
- (3) C
- (4) A
- (5) D

30. What will come in place of the question mark ?

- DC DB DF DA
- (1) DG
 - (2) DE
 - (3) DH
 - (4) DK
 - (5) Either DK or DE

31. Who sits third to the left of A?

- (1) H
- (2) G
- (3) C
- (4) F
- (5) B

32. Which of the following pairs represents the immediate neighbours of C?

- (1) FH
- (2) AB
- (3) BD
- (4) EK
- (5) DF

Directions (33 - 37): Study the following arrangement carefully and answer the questions given below:

S F 3 U A * 7 M @ \$ Q 2 % 6 © 8 N R 1 5 & 9 L Z C # V 4 p W E

33. If all the numbers are dropped from the above arrangement which of the following will be eleventh from the left end of the above arrangement ?

- (1) N
- (2) %
- (3) K
- (4) ©
- (5) &

34. Four of the following five are alike in a certain way based on the positions in the above arrangement and so form a group. Which is the one that does not belong to that group ?

- (1) A * U
- (2) L9Z
- (3) #VC
- (4) K5N
- (5) \$Q@

35. How many such symbols are there in the above arrangement, each of which is immediately preceded by a number and also immediately followed by a letter ?

- (1) None
- (2) One
- (3) Two
- (4) Three
- (5) More than three

36. What will come in place of the question mark ?

- SF UA M@ " %6 5&
- (1) V4
 - (2) #V
 - (3) LZ
 - (4) 94
 - (5) None of these

37. Which of the following is seventh to the right of the twentieth from the right end of the above arrangement ?

- (1) % (2) 5
- (3) Q (4) 8
- (5) K

Directions (38 - 40) : Each of the questions below consists of a question and two statements numbered I and II given below it. You have to decide whether the data provided in the statements are sufficient to answer the question. Read both the statements and

Give answer (1) if the data in Statement I alone are sufficient to answer the question, while the "data in Statement II alone are not sufficient to answer the question.

Give answer (2) if the data in Statement II alone are sufficient to answer the question, while the data in Statement I alone are not sufficient to answer the question.

Give answer (3) if the data either in Statement I alone or in Statement II alone are sufficient to answer the question.

Give answer (4) if the data in both the Statements I and II are not sufficient to answer the question.

Give answer (5) if the data in both the Statements I and II together are necessary to answer the question.

38. Among Rohan, Samir, Farhan and Emi seated in a straight line facing North, who sits at the extreme right hand corner of the line?

- (I) Samir and Farhan are immediate neighbours of each other and Emi is not an immediate neighbour of Samir.
- (II) Emi sits second to the right of Samir and Rohan is not an immediate neighbour of Samir,

39. Point A is towards which direction of Point D?

- (I) Walking 10m in a straight line from Point D leads to Point A.
- (II) Point C is located exactly between Point A and Point D.

40. On which day of the month was the farewell scheduled in the hostel ?

- (I) The farewell was scheduled after the exams got over i.e. 23rd of that month and all the students left the hostel on 29th of the same month.
- (II) The warden of the hostel did not want to hold the farewell on or before 27th of that month due to certain administrative reasons.

Directions (41-50): In each of the questions given below which one of the five answer figures on the right should come after the problem figures on the left, if the sequence were continued ?

Problem Figures

Answer Figures

41.		41.	
42.		42.	
43.		43.	
44.		44.	
45.		45.	
46.		46.	
47.		47.	
48.		48.	
49.		49.	
50.		50.	

NUMERICAL ABILITY

Directions (51-55) : What will come in place of the question mark (?) in the following questions ?

51. $(72 - 748 \div 17)^2 = (?)^2 \times 4$
 (1) -12 (2) 18
 (3) -16 (4) 16
 (5) 14

52. $1\frac{3}{11} - 1\frac{1}{5} = ? - 2\frac{1}{10} + 1\frac{3}{4}$

(1) $\frac{101}{220}$ (2) $\frac{97}{110}$

(3) $\frac{93}{220}$ (4) $\frac{109}{110}$

(5) None of these

53. $(0.027)^2 \div (0.09)^5 \times (0.0081) = (0.3)^{?+4}$

(1) 0 (2) 3

(3) 4 (4) -4

(5) None of these

54. 35% of 44% of 1150 + 20% of 700 = ?

(1) 317.1 (2) 327.6

(3) 229.6 (4) 245.1

(5) None of these

55. $\sqrt{256 \times 49} + (19)^2 + 11 = (?)^2$

(1) 24 (2) $(454)^{1/2}$

(3) 454 (4) 484

(5) -22

Directions (56-60): What approximate value will come in place of the question mark (?) in the following questions (You are not expected to calculate the exact value.)

56. $18991 \div 91 \times 33 = ? \times 31$

(1) 300 (2) 220

(3) 190 (4) 250

(5) 280

57. $\frac{1211}{91} + \frac{43}{2211} \times \frac{111}{399} = ?$

(1) 110 (2) 140

(3) 160 (4) 190

(5) 220

58. $(11.01)^3 + (14.01)^2 - (19.01)^2 = ?$

(1) 1170 (2) 1250

(3) 1220 (4) 1280

(5) 1120

59. $\sqrt{8888} \times \sqrt{4444} + \sqrt{2222} = ? \div 8$

(1) 1020 (2) 1120

(3) 1180 (4) 1140

(5) 1060

60. 81% of 901 - 121 = ? - 41% of 699

(1) 940 (2) 890

(3) 860 (4) 800

(5) 920

Directions (61-65) : What will come in place of the question mark (?) in the following number series ?

61. 12 35 40 63 68 (?)

(1) 93 (2) 75

(3) 73 (4) 91

(5) None of these

62. 19 28 46 82 154 (?)

(1) 298 (2) 254

(3) 278 (4) 248

(5) None of these

63. 655 484 351 256 199 (?)

(1) 161 (2) 218

(3) 180 (4) 171

(5) None of these

64. 21 28 47 86 153 (?)

(1) 244 (2) 266

(3) 256 (4) 254

(5) None of these

65. 1229 500 157 32 5 (?)

(1) 4 (2) 2

(3) -3 (4) -2

(5) None of these

Directions (66-70): In the following questions two equations numbered I and II are given. You have to solve both the equations and

Give answer If

(1) $x > y$

(2) $x \geq y$

(3) $x < y$

(4) $x \leq y$

(5) $x = y$ or the

relationship cannot be established

66. I. $(6 + x)^2 = x^2 + 3x$

II. $5y^2 + 3y + 4 = 4y^2 + 8$

67. I. $8x^2 - 121 = \sqrt{961}$

II. $22y - 565 = 4y - 331$

68. I. $\frac{9}{\sqrt{x}} + 2\sqrt{x} = 5\sqrt{x} + \frac{4}{\sqrt{x}}$

II. $y^3 - \frac{\left(\frac{4}{3}\right)^{7/2}}{\sqrt{y}} = 0$

69. I. $(125)^{1/3}x + \sqrt{529} = 423$

II. $\sqrt{676y} - 140 = 1940$

70. I. $\frac{34}{\sqrt{x}} - \frac{12}{\sqrt{x}} = 4\sqrt{x}$

II. $\frac{6\sqrt{y}}{16} - \frac{4\sqrt{y}}{16} = \frac{1}{2\sqrt{y}}$

71. The side of a square is twice the length of a rectangle of area 828 sq.cm. Perimeter of the rectangle is 118 cm. What is the perimeter of the square?

(1) 184 cm.

(2) 288 cm.

(3) 144 cm.

(4) Cannot be determined

(5) None of these

72. Three athletes ran in a race. Speed of first athlete was three-fourth speed of second athlete.

Speed of third athlete was 1—

times speed of second athlete.

First athlete covered the distance

of 300 metres in 50 seconds.

How much distance would third

athlete cover in 40 seconds?

(1) 400 metres (2) 300 metres

(3) 450 metres (4) 350 metres

(5) None of these

73. Amit's present age is three years less than Jyoti's age after five years. The ratio between Jyoti's present age and Vipin's present age is 12: 25. Vipin is 10 years younger than Ajay who is presently 60 years old. What is Amit's present age?

(1) 26 years

(2) 21 years

(3) 24 years

(4) Cannot be determined

(5) None of these

74. The largest and the second largest angles of a triangle are in the ratio of 4 : 3 respectively. The numeric value of the smallest angle of the triangle is three less than the square of six. What is the value of the largest angle of the triangle?

(1) 90° (2) 78°

(3) 84° (4) 80°

(5) None of these

75. In a test Pramila scored 195 marks less than Rohit. Rohit scored 280 marks more than Preeti in same test. Preeti scored 205 marks less than Pawan. Pawan scored 1400 marks in the test. Highest marks of the test are 1500. What was Pramila's **approximate** percentage of marks?
 (1) 92 (2) 89
 (3) 81 (4) 85
 (5) 95

76. The angles of a quadrilateral are in ratio of 6 : 5 : 7 : 2. The largest angle of the quadrilateral is equal to the largest angle of a triangle. One of the angles of the triangle is 31°. What is the value of smallest angle of the triangle?
 (1) 29° (2) 31°
 (3) 23° (4) 27°
 (5) None of these

77. Sum of three numbers is equal to sum of the square of 18 and the cube of 7. Second largest number is (9)² more than 65. Largest number is equal to the sum of square of 22 and square of 4. What is the value of the lowest number?
 (1) 24 (2) 31
 (3) 21 (4) 34
 (4) None of these

78. Ram purchased an item for ₹ 45,000 and sold it at a loss of 10 percent. From that amount he purchased another item and sold it at a gain of 15 percent. What is his overall gain/loss in the whole deal?
 (1) Gain of ₹ 1,525
 (2) Loss of ₹ 1,575
 (3) Gain of ₹ 1,755
 (4) Loss of ₹ 1,755
 (5) None of these

79. Sum of five consecutive numbers of Set-A is 355. Sum of the four consecutive even numbers of Set-B is 292. What is the sum of the smallest even number of Set-B and the largest number of Set-A?
 (1) 144 (2) 143
 (3) 148 (4) 142
 (5) None of these

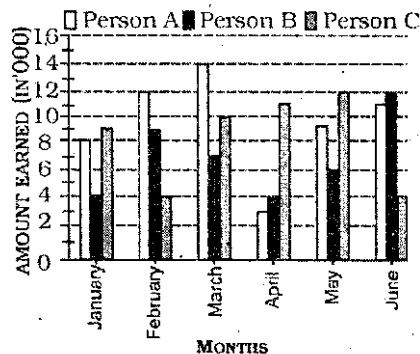
80. The simple interest accrued on a sum of a certain principal is

₹ 8,000 in four years at the rate of 10 p.c.p.a. What would be the compound interest accrued on that principal at the rate of 4 p.c.p.a in 2 years?

- (1) ₹ 1,458
 (2) ₹ 1,120
 (3) ₹ 1,320
 (4) ₹ 1,632
 (5) None of these

Directions (81-85) : Study the following graph carefully to answer the questions that follow »

AMOUNT EARNED (IN THOUSANDS) BY THREE DIFFERENT PERSONS IN SIX DIFFERENT MONTHS



81. What was the percentage increase in amount earned by Person-C in March as compared to the previous month?
 (1) 62 (2) 81
 (3) 68 (4) 72
 (5) 78

Directions (86-90) : Study the table carefully to answer the questions that follow:

NUMBER OF SCIENCE AND ARTS STREAM STUDENTS IN FOUR DIFFERENT UNIVERSITIES IN FIVE DIFFERENT YEARS

University	A		B		C		D	
	Science	Art	Science	Art	Science	Art	Science	Art
2006	432	676	255	544	184	240	426	665
2007	743	654	338	123	148	528	736	220
2008	424	534	656	321	742	455	464	136
2009	645	408	732	124	454	502	502	222
2010	890	203	555	338	362	119	625	363

86. What was the average number of students from the University-B in arts stream over all the years together?
 (1) 269 (2) 290
 (3) 280 (4) 266
 (5) None of these

- (1) 145 (2) 150
 (3) 125 (4) 140
 (5) None of these
82. What was the average amount earned by Person-A in all the months together?
 (1) ₹ 8,520 (2) ₹ 9,520
 (3) ₹ 8,500 (4) ₹ 9,500
 (5) None of these
83. What was the respective ratio between the amount earned by Person-C in May, the amount earned by Person-A in March and amount earned by Person-B in April?
 (1) 6 : 7 : 2 (2) 7 : 2 : 6
 (3) 6 : 7 : 4 (4) 5 : 7 : 6
 (5) 5 : 7 : 3
84. What was the difference between the total amount earned by Person-B over all the months together and the amount earned by Person-C in April?
 (1) ₹ 41,000 (2) ₹ 3.1 lacs
 (3) ₹ 48,000 (4) ₹ 31,000
 (5) None of these
85. Total amount earned by all the three persons together in January was **approximately** what percentage of the total amount earned by all the three persons together in March?

