Key

| Date of Examination: | 14-05-2022 | Time: | 2 Hrs |
| Name of the Post: | Assistant Registrar - Level 1 Test | | |

| Name of the Candidate: | |
| Application No: | |

Candidate's Signature   **Invigilator's Signature**

Instructions to the Candidate:

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1. Use of Calculators, Cell Phones and Other Electronic Devices are not permitted inside the examination hall.
2. Candidate should fill the details on both question paper booklet and OMR sheet carefully without any corrections.
3. Candidate should carefully read the instructions given on the question paper booklet and OMR sheet
4. Candidate should mark correct answer only on OMR sheet.
5. **Question paper consists of 80 questions (12 Pages) in total for 100 marks. Each question carries 1¼ marks (1.25 marks).**
6. Wrong answer per each question carries negative of 0.3125 marks.
7. Clarifications on Questions are not permitted.
8. Rough works can be done in the blank space provided at the end of the question paper booklet.
9. No Candidate is allowed to leave the examination hall till the examination is completed.
10. **Candidate should return both question paper booklet and OMR sheet after completion of the examination to the Invigilator.**

1.	The number of integers between 23 and 100 that are divisible by 6 is
	A) 12 B) 13 C) 8 D) 10

2.	The sum of all the two-digit numbers that are divisible by 5 is
	A) 945 B) 1035 C) 1230 D) 940

3.	A one-rupee coin is placed on a table. The number of same size one rupee coins that can be placed around it such that each one of them touches it and two others is
	A) 4 B) 5 C) 6 D) 8

4.	The simple interest on a certain amount at the interest rate of 8% per annum for 6 years is half of the amount. The amount is
	A) Rs.4800 B) Rs 6000 C) Rs. 2499 D) Data inadequate

5.	The number of binary strings of length at most n without any pair of consecutive bits being the same is
	A) 2 B) 2n C) 2^n D) 2^{n-1}

Questions 6 to 10 are based on the following information:

J is shorter than K and heavier than O.
K is taller than L and lighter than O.
L is taller than J and lighter than J
M is shorter than O and heavier than N.
N is taller than K and heavier than J.
O is shorter than J and lighter than L.

6.	Which of the following is Shortest as well as heaviest?
	A) M B) K C) O D) None of these

7.	Which of the following is taller as well as heavier than J?
	A) K B) L C) M D) N

8.	Which of the following occupies the same rank in both the orders - shortest to tallest and lightest to heaviest?
	A) M B) N C) O D) None of these

9.	How many persons are lighter than J and shorter than N?
	A) 2 B) 3 C) 4 D) None of these

10.	Which of the following is tallest and lightest?
	A) M B) N C) K D) No one

11.	The greatest number that exactly divides 105, 1001 and 2436 is
	A) 11 B) 3 C) 7 D) 21

12.	The least multiple of 7 that leaves a remainder of 4 when divided by 6, 9, 15 and 18 is
	A) 184 B) 364 C) 74 D) 94

13.	If x > 2 and y > -1 then A) xy > -2 B) x < 2y C) xy < -2 D) -x < 2y
14.	A, B, C, D are four integers. Products of AB, BC, CD, BD are respectively 24, 24, 32 and 16. The product of ABCD is A) 1024 B) 768 C) 512 D) 384
15.	A is taller than B. C is not as tall as A. B and C are more or less of equal height. The shortest among these is A) B B) C C) B and C D) Information is insufficient.
16.	The difference between simple and compound interest on Rs.1200 for one year at 10% per annum reckoned half-yearly is A) Rs. 2.50 B) Rs. 3 C) Rs, 4 D) Cannot be determined
17.	30 men and 20 women do a work in 40 days while 20 men and 30 women do the same work in 30 days. In how many days can 24 men and 32 women do the same work? A) 125 / 9 B) 150 / 9 C) 250/9 D) None of these
18.	A pilot flies a distance of 600 miles. He could fly the same distance in 30 minutes less time by increasing the speed by 40 miles/hour. His actual average speed in miles/hour is A) 300 B) 250 C) 225 D) 200
19.	A person standing on the bank of a river observes that the angle of the top of a tower on the other bank is 60. When he moves back from the bank 40meters, the angle of elevation becomes 30. The breadth of the river is A) 40 mts B) 20 mts C) 30 mts D) 60 mts
20.	A, B, and C together can complete a work in 10 days. All three started the work and after 4 days A has left. B and C together completed the remaining work in 10 more days, A alone can complete the work in A) 15 days B) 16 days C) 25 days D) 50 days
21.	Three pipes A, B and C can fill a tank in 5 hours. The pipe C is twice as fast as B and B is as fast as B. The time needed by C alone to fill the tank in hours is A) 8.75 B) 8.25 C) 17.5 D) 35
22.	The sum of a number and its reciprocal is 125/22. The number is A) 1/11 B) 2/11 C) 3/11 D) 2/11 B or D
23.	If the fourth day after 6th January is a Saturday, then the day on 1st December of the previous year is A) Thursday B) Friday C) Saturday D) Sunday
24.	The next number in the series 7, 13, 25, 49, ... is A) 96 B) 97 C) 63 D) 64

25.	A man facing south turns 135° in the anti-clock wise direction and then turns 180° in clock wise direction. The direction he is facing now is A) north-east B) north-west C) south-east D) south-west
	Questions 26 to 30 are based on the following information: An office in a city X has at present 3 managers A, B, C and 5 secretaries D, E, F, G and H. The management is considering to start a new office in another city Y using two managers and 3 secretaries out of the existing staff. The following are the guidelines for the formation of the staff for the office in city Y: Managers A and C are constantly finding fault with each other and should not be sent as a team to the new office C and E function well alone but not as a team. They should be separated. D and G have not been on speaking terms and they should not go together. D and F are have been competing for a promotion and should not be part of the new team together.
26.	If A is to be moved as one of the members of the new team, which of the following cannot be a possible working unit in the new office A) ABDEF B) ABDGH C) ABEFH D) ABEGH
27.	If C and F are to be moved to the new office, in how many different ways can the other members of the new team be selected? A) 0 B) 1 C) 2 D) 3
28.	If C is sent to the new office, which of the following cannot go along with C A) B B) C C) D D) E
29.	Which of the following members of the staff must be included in the batch to be sent to the new office? A) B B) C C) D D) E
30.	If D is selected to go to the new office, which of the following conditions must be true? I. C cannot go II. A cannot go III. H must go A) I and II but not III B) I and III but not II C) II and III but not I D) I, II and III
31.	A man in a train running at uniform speed notices that he can count 21 telephone poles in one hour. It is known that the distance between consecutive poles is 50meters. The speed of the train in km/hr is A) 55 B) 57 C) 58 D) 60
32.	A boat running downstream covers a distance of 16 km in 2 hours, while the boat takes 4 hours for covering the same distance in upstream. The speed of the bo4at in still water in km/hr is A) 4 B) 6 C) 8 D) Cannot be determined
33.	The number of integers between 10000 that contain exactly one 8 and exactly one 9 is A) 1024 B) 672 C) 768 D) 896

34.	How many integers between 1 and 1000 have the sum of their digits equal to 9?
	A) 45 B) 54 C) 110 D) 55
35.	A is eleven times older than B. In a certain number of years, A will be 5 times as old as B and 5 years after that A will be three times as old as B. The ages of A and B are
	A) 15, 5 B) 25, 5 C) 22, 2 D) 33, 3
36.	The operating system does all the following tasks excepting
	A) Provides a way for the user to interact with the computer
	B) Manages central processing unit
	C) Enables users to performs specific tasks like document editing
	D) Manages memory and storage
37.	Which of the following helps the user in locating information over internet?
	A) http B) https C) www D) URL
38.	If the 2's complement representation of a number is $(011010)_2$, then its hexadecimal representation is
	A) $(110)_{16}$ B) $(32)_{16}$ C) $(1A)_{16}$ D) $(68)_{16}$
39.	The total number of boolean functions that can be defined using n boolean variables is
	A) 2^n B) 2^{n-1} C) 2^{n+1} D) None of these
40.	When a hexadecimal number $(37)_{16}$ is divided by $(23)_{16}$, the remainder in hexadecimal is
	A) $(09)_{16}$ B) $(C0)_{16}$ C) $(14)_{16}$ D) $(03)_{16}$
	Questions 41 to 45 are based on the following information: The letters A, B, C, D, E, F and G not necessarily in that order stand for seven consecutive numbers from 1 to 10 D is 3 less than A; B is the middle term; F is as much less than B as C is greater than D; G is greater than F
41.	The first integer is
	A) G B) C C) D D) E
42.	A is as much greater than D as which integer is less than G
	A) A B) B C) C D) None
43.	If the value represented by A is 7, then which of the following seven numbers represent the letters A, B, C, D, E, F and G
	A) 1 to 7 B) 2 to 8 C) 3 to 9 D) 4 to 10
44.	The difference between the values of A and F is
	A) 1 B) 2 C) 3 D) 4

45.	If the value represented by B is 4, then sum of which of the following pairs of numbers add up to 10? I. A and B II. D and G III, C and E A) I and II but not III B) I and III but not II C) II and III but not I D) I, II and III
46.	Fill in the blank with appropriate word in the sentence "The ship was attacked by -------- near a deserted island" A) burglars B) pirates C) thieves D) gangsters
47.	Fill in the blank with appropriate word in the sentence "There was no ------- in the railway compartment for additional passengers." A) place B) space C) seat D) room
48.	Rearrange the parts of a sentence referred to by P, Q, R and S to form a completely meaningful sentence I enclose ------- ---------- --------- -------- P: and the postage Q: a postal order R: the price of book S: which will cover A) PQRS B) QPRS C) QPSR D) QSRP
49.	In the number series 5, 7, 11, 20, 35, 67 one number is wrong. The wrong number is A) 11 B) 35 C) 20 D) 67
50.	What should come in the letter following letter series? BXJ ETL HPN KLP A) NHR B) MHQ C) MIP D) NIR
51.	The missing number in the series 4, 7, 11, 18, 29, 47, ----, 123, 199 is A) 76 B) 77 C) 86 D) 87
52.	Identify the missing number in the series 61, 52, 63, ----, 46, 18 is A) 54 B) 86 C) 49 D) 94
	Questions 53 to 57 are based on the following information: During a week from Monday to Friday, Padma decides to see a series of 8 films – 2 tragedy, 2 mystery, 2 comedy and 2 family drama films. She can watch only see first or second show on any day. She plans to watch the movies as per the following guidelines She has to begin and end the series with family dramas She cannot see mystery films in second shows She has to see a tragedy film each on Wednesday and Thursday. She has to see only one comedy show in the second shows She cannot skip any first show on any day After seeing the first four films, the next available show has to be skipped.

53.	Which of the following films can she see in a second show? A) Family drama on Monday B) A mystery film on Thursday C) A comedy film on Tuesday D) A tragedy film on Tuesday
54.	If she cannot watch any mystery film before Wednesday, she has to see on the consecutive shows two films of the type A) Family Drama B) Comedy C) Tragedy D) Mystery
55.	If she has to see a comedy film on Tuesday, then she has to see in first show a film of the type A) Tragedy on Wednesday B) Tragedy on Thursday C) Family drama on Friday D) Mystery on Thursday
56.	If she sees a comedy film on Monday, then which of the following two pairs of shows, she has to skip? A) Tuesday Second show and Wednesday first show B) Tuesday Second show and Wednesday second show C) Wednesday first show and Wednesday second show D) Tuesday second show and Thursday second show.
57.	She cannot see a comedy show on A) Monday B) Tuesday C) Wednesday D) Thursday
58.	The ratio in which water should be mixed with milk costing Rs 48 per liter to obtain a mixture worth Rs. 32 per liter is A) 1 : 2 B) 2 : 1 C) 1 : 3 D) 3 : 1
59.	The arithmetic mean and geometric mean of two numbers a and b are A and G respectively. Then the value of $(\sqrt{a} - \sqrt{b})^2$ is A) A – G B) 2A – 2G C) 2A – G D) None of these
60.	243 is divided into three parts such that half of the first part, one-third of second part and one-fourth of third part are equal. The largest of the three parts is A) 108 B) 54 C) 81 D) 132
61.	A regular working day is 8 hours and regular week is 5 working days. A man is paid Rs 24 per hour during regular hours and Rs. 32 per hour for overtime. If he earns Rs 4640 in four weeks, the total number of hours he worked is A) 185 B) 165 C) 154 D) 148
62.	A reduction of 40% in the price of toys would enable a teacher to obtain 36 toys for Rs. 1000. The reduced price of 21 toys is A) 50 B) 150 C) 250 D) 350
63.	The average of five numbers 24, 47, 53, 64 and X is Y. What percent of the sum of the numbers is Y? A) 25 B) 10 C) 20 D) Cannot be determined
64.	Which of the following days is celebrated as international yoga day? A) January 21 B) January 15 C) June 21 D) June 15

65.	December 26th on every year is celebrated as A) Kicking Day B) Christmas Eve C) Boxing Day D) Thanksgiving Day
	Questions 66 to 70 are based on the following information: All the roads in a city are either parallel or perpendicular to one another and all the roads are straight Roads A, B, C, D and E are parallel to one another and roads F, G, H, I, J, K, L and M are parallel to one another. Road A is 1 km east of road B Road B is ½ km west of road C Road D is 1 km west of road E Road G is ½ km south of road H Road I is 1 km north of road J Road K is ½ km north of road L Road K is 1 km south of road M.
66.	Which of the following is necessarily true? A) B and E intersect B) D is 2km west of B C) D is at least 2km west of A D) M is 1.5km north of L
67.	If E is between B and C, then which of the following is necessarily false? A) D is 2km west of A B) C is less than 1.5km from D C) E is less than 1km from A D) The sum of distances between B, E and E, C is 1.2km
68.	Which of the following possibilities make two roads coincide with each other? A) L is 1/2 km north of I B) C is 1km west of D C) I is 1/2km north of K D) E and B are 1/2 km apart
69.	If K is ½ km south of J and 1km north of G, then which of the following two roads are ½ km apart? A) I and K B) J and G C) G and I D) J and K
70.	If H is between M and L, then which of the following must be true? I. The distance between G and L is less than ½ km II. The distance between G and L is less than 1km A) I only B) II only C) I and II D) Neither I nor II
71.	A nibble can be considered as A) binary digit B) Octal digit C) Decimal digit D) Hexadecimal digit
72.	The octal equivalent of the hexadecimal number 4DF is A) 2333 B) 2773 C) 2337 D) 2373
73.	HTTP stands for A) Hyper Text Transfer Procedure B) Hyper Text Transfer Protocol C) High Text Transfer Protocol D) High Transfer Text Protocol

74.	Who gave the slogan "Jai Jawan, Jai Kisan"? A) Netaji Subash Chandra Bose B) Charan Singh C) Indira Gandhi D) Lal Bahadur Sastri
75.	Which of the following is grammatically incorrect? A) He is smiling B) He smiles C) He always smiles D) He is always smiling
76.	Choose an appropriate option to replace the phrase in bold letters in the sentence The bank has hired a consultant who **will look into** any issue which arise out of merger. A) is looking over B) will be looked over C) will look out D) No correction is needed in the sentence
77.	Which of the following refers to the idiom "under the Sun"? A) Anything and everything B) A large number of things C) A few things D) Something
78.	The word "pin" is used in four different ways. One of them is incorrect or inappropriate. Identify that statement. A) She combed her hair backwards and secured it with a pin. B) Jack managed to grab the thief and pin him against the wall till police arrived. C) It is imprudent to pin your hopes on someone to help you out of his situation D) You cannot pin blame at anyone without verifying facts
79.	Choose the correct spelling for the word given below A) ceiling B) cealing C) cieling D) ceeling
80.	Insert appropriate propositions in the blanks to complete the sentence "This property has been ------- the possession ------ the royal family ----- generations" A) with, of, of B) in, of, of C) in, of, for D) with, of, for