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Paper-II 2008



INDIAN SPACE RESEARCH ORGANISATION
[HEADQUARTERS]

WRITTEN TEST FOR RECRUITMENT TO THE POST OF ASSISTANT/
JR.PERSONAL ASSISTANT

Test Booklet :



Paper –II : Arithmetic, General Knowledge, Computer Literacy

Date : 20th July 2008

Time : 1400 hrs. to 1630 hrs.

Part- A : Arithmetic (Objective type)

No. of questions

60

Part- B : General Knowledge (Objective type)

20

Part- C : Computer Literacy (Objective type)

20

INSTRUCTIONS

1. The question paper is in the form of test booklet.
2. A separate OMR answer sheet is provided to all candidates.
3. Each objective question is provided with a text and figures wherever applicable with multiple answers (a), (b), (c) and (d), which includes one correct answer.
4. Refer answer sheet instructions and use **HB pencil** for answering all the questions.
5. All questions carry 1 mark each.
6. Multiple answers for a question will be regarded as wrong answer.
7. Although the test stresses on accuracy more than speed, it is important for you to use your time as effectively as possible.
8. Do not waste time on questions which are too difficult for you. Go on to other questions and come back to the difficult ones later.
9. Question booklets have been marked with **A or B or C or D or E or F** on the right hand top corner, which shall be written on the answer sheet in the box and bubble appropriately.
10. Enter your name and roll number correctly on the OMR answer sheet.
11. Enter all information as per the instructions given in the answer sheet.
12. Space available in the Question booklet could be used for rough work, if required and no separate sheet will be provided.
13. At the end of the test (1) Written test Call Letter with photograph (2) OMR Answer Sheet and (3) Test Booklet shall be returned to the Invigilator.





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WRITTEN TEST FOR THE POST OF ASSISTANT/JR.PERSONAL ASSISTANT

PART-A (ARITHMETIC)

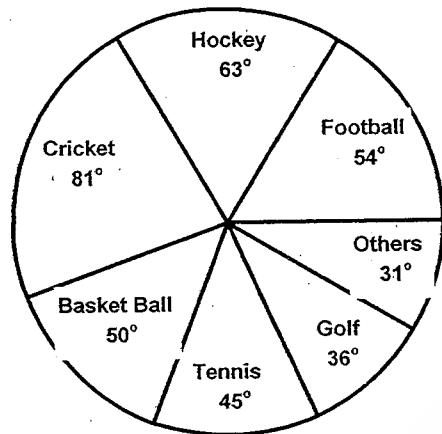
1. Which of the following is always odd ?
(a) Sum of two odd numbers (b) Difference of two odd numbers
(c) Product of two odd numbers (d) None of these
2. Find the sum of prime numbers lying between 60 and 75.
(a) 199 (b) 201 (c) 211 (d) 272
3. The length of a rectangular plot is 60% more than its breadth. If the difference between the length and the breadth of that rectangle is 24 cm. what is the area of that rectangle ?
(a) 2400 sq.cm. (b) 2480 sq.cm. (c) 2560 sq.cm. (d) 2600 sq.cm.
4. In a camp, there is a meal for 120 men or 200 children. If 150 children have taken the meal, how many men will be catered to with the remaining meal ?
(a) 20 (b) 30 (c) 40 (d) 50
5. The H.C.F. and L.C.M. of two numbers are 11 and 385 respectively. If one number lies between 75 and 125, then that number is :
(a) 77 (b) 88 (c) 99 (d) 110
6. What will be the least number which when doubled will be exactly divisible by 12, 18, 21 and 30 ?
(a) 196 (b) 630 (c) 1260 (d) 2520
7. Sam invested Rs.15,000 @ 10% per annum for one year. If the interest is compounded half-yearly, then the amount received by Sam at the end of the year will be :
(a) Rs.16,500. (b) Rs.18,525.50
(c) Rs.16,537.50 (d) Rs.18,150
8. $(?) \times 15 = 37.5\% \text{ of } 220$
(a) 11 (b) 81.5 (c) 5.5 (d) 851
9. A is twice as fast as B and B is thrice as fast as C is. The journey covered by C in 42 minutes, will be covered by A in:
(a) 14 min. (b) 28 min. (c) 63 min. (d) 7 min.

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Direction: The circle-graph given here shows the spending of a country on various sports during a particular year. Study the graph carefully and answer the following five questions given below it :



10. What percent of the total spending is spent on Tennis ?
(a) $12\frac{1}{2}\%$ (b) $22\frac{1}{2}\%$ (c) 25% (d) 45%
11. How much more percent is spent on Hockey than that on Golf ?
(a) 27% (b) 35% (c) 37.5% (d) 75%
12. How much less percent is spent on Football than that on Cricket ?
(a) $22\frac{2}{9}\%$ (b) 27% (c) $33\frac{1}{3}\%$ (d) $37\frac{1}{2}\%$
13. If the total amount spent on sports during the year was Rs.2 crores, the amount spent on Cricket and Hockey together was :
(a) Rs.8,00,000 (b) Rs.80,00,000
(c) Rs.1,20,00,000 (d) Rs.1,60,00,000
14. If the total amount spent on sports during the year be Rs.1,80,00,000, the amount spent on Basketball exceeds that on Tennis by :
(a) Rs.2,50,000 (b) Rs.3,60,000
(c) Rs.3,75,000 (d) Rs.4,10,000

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15. A can do a piece of work in 25 days and B can do it in 20 days. They work together for 5 days and then A goes away. In how many days will B finish the work
(a) 10 days (b) 11 days (c) 20 days (d) $33\frac{1}{11}$ day

16. The average score of a cricketer for ten matches is 38.9 runs. If the average for the first six matches is 42, then find the average for the last four matches.
(a) 33.25 (b) 33.5 (c) 34.25 (d) 35

17. Which is the largest among the following fractions?
(a) $\frac{5}{8}$ (b) $\frac{7}{9}$ (c) $\frac{4}{7}$ (d) $\frac{2}{3}$

18. The ratio between two numbers is 3:4 and their sum is 420. The greater of the two numbers is:
(a) 175 (b) 200 (c) 240 (d) 315

19. Rs.1,200 becomes Rs.1632 in 4 years at a certain rate of simple interest. If the rate of interest is increased by 1%, it would amount to how much?
(a) Rs.1635 (b) Rs.1644 (c) Rs.1670 (d) Rs.1680

20. The number 311311311311311311311 is :
(a) divisible by 3 but not by 11 (b) divisible by 11 but not by 3
(c) divisible by both 3 and 11 (d) neither divisible by 3 nor by 11

21. The students in three classes are in ratio 2:3:5. If 20 students are increased in each class, the ratio changes to 4:5:7. What is the total number in the three classes before the increase?
(a) 100 students (b) 75 students
(c) 150 students (d) 50 students

22. A, B and C start at the same time in the same direction to run around a circular stadium. A completes a round in 252 seconds, B in 308 seconds and C in 198 seconds, all starting at the same point. After what time will they meet again at the starting point?
(a) 26 minutes 18 seconds (b) 42 minutes 36 seconds
(c) 45 minutes (d) 46 minutes 12 seconds

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23. Divide Rs.1540 among A, B, C so that A shall receive $\frac{2}{9}$ as much as B and C together, and B $\frac{3}{11}$ of what A and C together do.

(a) 285,330,830 (b) 280,330,930
(c) 280,330,980 (d) 330,380,980

24. In a fort there is provision for 40 days for 275 persons. If after 16 days 125 persons leave the fort, for how many more days the provision will now last?

(a) 45 days (b) 35 days (c) 44 days (d) 53 days

25. 10 years ago, the average age of a family of 4 members was 24 years. 2 children having been born, the average of the family is same today. The present age of youngest child if they differ in age by 2 years is:

(a) 1 year (b) 2 years (c) 3 years (d) 5 years

26. A train travels 92.4 km/hr. How many metres will it travel in 10 minutes?

(a) 15400 (b) 1540 (c) 154 (d) 15.40

27. A man covers a certain distance in 2 hours 45 mints., when he walks at the rate of 4 km/hr. How much time will he take to cover the same distance if he runs at a speed of 6.5 km/hr.?

(a) 40 min. (b) 41 min. 15 sec. (c) 45 min. (d) 100 min.

28. A number when divided by the sum of 555 and 445 gives two times their difference as quotient and 30 as the remainder. The number is:

(a) 1220 (b) 1250 (c) 22030 (d) 220030

29. Which of the following will come in place of both the question marks in the following equations ?

$$\frac{128 + 16 \times ? - 7 \times 2}{7^2 - 8 \times 6 + ?^2} = 1$$

(a) 3 (b) 14 (c) 16 (d) 17

30. 80% of 120+40% of 150=?

(a) 160 (b) 176 (c) 156 (d) 256

31. 67% of $89 \div 89$ % of 67=?

(a) 5163 (b) 5963 (c) 0 (d) 1

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32. What decimal fraction is 20 mm of a metre?
(a) .2 (b) .02 (c) .05 (d) .5

33. $5005 - 5000 / 10.00 = ?$
(a) 0.5 (b) 50 (c) 5000 (d) 4505

34. A man purchased a watch for Rs. 400 and sold it at a gain of 20% of the selling price. The selling price of the watch is:
(a) Rs. 300 (b) Rs. 320 (c) Rs. 440 (d) Rs. 500

35. A shopkeeper mixes two varieties of tea, one costing Rs. 35 per k.g. and another at Rs. 45 per kg. in the ration 3:2. If he sells the mixed variety at Rs. 41.60 per k.g., percentage of his gain or loss is:
(a) 4% gain (b) 4% loss (c) 6 2/3% gain (d) 6 2/3% loss

36. Two-fifth of one-fourth of three-seventh of a number is 15. What is half of that number?
(a) 94 (b) 96 (c) 188 (d) 175

37. The compound interest on a certain sum for 2 years is Rs. 41 and the simple interest is Rs. 40. What is the rate percent?
(a) 4% (b) 5% (c) 6% (d) 8%

38. A sum of money at compound interest amounts to thrice itself in 3 years. In how many years will it be 9 times itself?
(a) 18 (b) 12 (c) 9 (d) 6

39. The difference between simple interest and the compound interest on Rs. 600 for one year at 10% per annum, reckoned half yearly is:
(a) Nil (b) Rs. 1.50 (c) Rs. 4.40 (d) Rs. 6.50

40. $3/4^{\text{th}}$ of $1/5^{\text{th}}$ of a number is 60. The number is:
(a) 300 (b) 400 (c) 450 (d) 1200

41. On dividing 55390 by 299, the remainder is 75. The quotient is:
(a) 187 (b) 185 (c) 243 (d) 374

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Direction: The following table shows the number of new employees added to different categories of employees in a Company and also the number of employees from these categories who left the company every year since the foundation of the Company in 1995. Based on the table, answer the following five questions:-

YEAR	MANAGERS		TECHNICIANS		OPERATORS		ACCOUNTANT S		PEONS	
	New	Left	New	Left	New	Left	New	Left	New	Left
1995	760	--	1200	--	880	--	1160	--	820	--
1996	280	120	272	120	256	104	200	100	184	96
1997	179	92	240	128	240	120	224	104	152	88
1998	148	88	236	96	208	100	248	96	196	80
1999	160	72	256	100	192	112	272	88	224	120
2000	193	96	288	112	248	144	260	92	200	104

42. What is the percentage of number of Operators who left the Company with respect to total number of Operators who joined the Company during the period between 1995 and 2000 ?

(a) 19% (b) 21% (c) 27% (d) 29%

43. For which of the following categories the percentage increase in the number of employees working in the Company from 1995 to 2000 was the maximum ?

(a) Managers (b) Technicians
(c) Operators (d) Accountants

44. What was the difference between the total number of Technicians added to the Company and the total number of Accountants added to the Company during the years 1996 to 2000 ?

(a) 128 (b) 112 (c) 96 (d) 88

45. What was the total number of Peons working in the Company in the year 1999 ?

(a) 1312 (b) 1192 (c) 1088 (d) 968

46. What was the pooled average of the total number of employees of all categories in the year 1997 ?

(a) 1325 (b) 1285 (c) 1265 (d) 1195

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47. The average consumption of petrol for a car for seven months is 110 litres and for next five months 86 litres. The average monthly consumption is:
(a) 98 litres (b) 100 litres (c) 102 litres (d) 96 litres

48. A sum of money amounts to Rs. 767 in 3 years and Rs. 806 in 4 years. The sum is:
(a) Rs. 600 (b) Rs. 650 (c) Rs. 675 (d) Rs. 700

49. A borrowed Rs.5000 from B at simple interest. After 4 years, B received Rs.1000 more than the amount given to B on loan. The rate of interest was:
(a) 5% (b) 25% (c) 20% (d) 4%

50. Which part contains the fractions in ascending order ?
(a) $\frac{11}{14}, \frac{16}{19}, \frac{19}{21}$ (b) $\frac{16}{19}, \frac{11}{14}, \frac{19}{21}$
(c) $\frac{16}{19}, \frac{19}{21}, \frac{11}{14}$ (d) $\frac{19}{21}, \frac{11}{14}, \frac{16}{19}$

51. The number of students in each section of a school is 24. After admitting new students, three new sections were started. Now, the total number of sections is 16 and there are 21 students in each section. The number of new students admitted is :
(a) 14 (b) 24 (c) 48 (d) 114

52. $\frac{(856 + 167)^2 + (856 - 167)^2}{856 \times 856 + 167 \times 167}$ is equal to :
(a) 1 (b) 2 (c) 689 (d) 1023

53. The value of $\frac{(67.542)^2 - (32.458)^2}{75.458 - 40.374}$ is :
(a) 1 (b) 10 (c) 100 (d) None of these

54. 5 out of 2250 parts of earth is sulphur. What is the percentage of sulphur in earth ?
(a) $\frac{11}{50}$ (b) $\frac{2}{9}$ (c) $\frac{1}{45}$ (d) $\frac{2}{45}$

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55. A is 30% more efficient than B. How much time will they, working together, take to complete a job which A alone could have done in 23 days ?
(a) 11 days (b) 13 days (c) 20 days (d) 25 days

56. An express train traveled at an average speed of 100 km / h, stopping for 3 minutes after every 75 km. How long did it take to reach the destination 600 km, from the starting point ?
(a) 6 hrs. 21 min. (b) 6 hrs. 24 min.
(c) 6 hrs. 27 min. (d) 6 hrs. 30 min.

57. Two trains start from P and Q respectively and travel towards each other at a speed of 50 km/hr and 40 km/hr respectively. By the time they meet, the first train has traveled 100 km. more than the second. The distance between P and Q is :
(a) 500 km. (b) 630 km. (c) 660 km. (d) 900 km.

58. A merchant has 1000 kg of sugar, part of which he sells at 8% profit and the rest at 18% profit. He gains 14% on the whole. The quantity sold at 18% profit is :
(a) 400 kg. (b) 560 kg. (c) 600 kg. (d) 640 kg.

59. A man took a loan from a bank at the rate of 12% p.a. simple interest. After 3 years, he had to pay Rs.5,400 interest only for the period. The principal amount borrowed by him was :
(a) Rs.2,000 (b) Rs.10,000 (c) Rs.15,000 (d) Rs.20,000

60. A and B take part in a 100 m race. A runs at 5 km per hour. A gives B a start of 8 m and still beats him by 8 seconds. The speed of B is :
(a) 5.15 kmph (b) 4.14 kmph (c) 4.25 kmph (d) 4.4 kmph

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PART-B (GENERAL KNOWLEDGE)

61. The river Cauvery flows from:

(a) Andhra Pradesh to Tamil Nadu (b) Karnataka to Maharashtra
(c) Karnataka to Tamil Nadu (d) Kerala to Tamil Nadu

62. Which of the following company is the world's largest car manufacturer ?

(a) Honda Motor (b) Volvo Motor
(c) Suzuki Motor (d) General Motor

63. India's newly built and tested missile "Astra" is meant for -----

(a) Surface to air strike (b) Air to air strike
(c) Ship to ship strike (d) Surface to surface strike

64. Gandhiji started Satyagraha movement in 1919 in protest against the:

(a) Enactment of Rowlatt Act (b) Champaran Wrongs
(c) Simon Commission (d) Colonial exploitation of India

65. Who among the following was the temporary President of the first session of the Constituent Assembly of India?

(a) H.V Kamat (b) S. Nijalingappa
(c) Dr.Rajendra Prasad (d) Sachithananda Sinha

66. In the history of the freedom movement of India, the year 1930 is associated with:

(a) Partition of Bengal (b) Dandi March
(c) Jallianwala Bagh Massacre (d) Chauri Chaura incident

67. Who has been adjudged as the most popular and liked person of the world, according to a recent online survey conducted by BBC ?

(a) Nelson Mandela (b) Bill Clinton
(c) Bill Gates (d) Dalai Lama

68. The range of Agni-II missile is around :

(a) 500 km. (b) 2000 km. (c) 3500 km. (d) 5000 km.

69. Which vitamin is provided by sunlight to the body ?

(a) Vitamin A (b) Vitamin B (c) Vitamin C (d) Vitamin D

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70. muscle is the strongest of all in the human body.
(a) Jaw (b) Thigh (c) Calf (d) Upper arm

71. Which of the following Indian cricketers was/were never appointed as captain of the Indian Test cricket team?
(a) S. Venkataraghavan (b) K. Srikant
(c) Mohinder Amarnath (d) Syed Kirmani

72. Musical instrument "sitar" is the combination of -----
(a) Bansuri and Veena (b) Bansuri and Sarangi
(c) Veena and Tambura (d) Veena and Piano

73. In which of the following states, Internet users are maximum in India ?
(a) Uttar Pradesh (b) Punjab
(c) Kerala (d) Maharashtra

74. The lady to win the Wimbledon title successfully nine times was:
(a) Monica Seles (b) Steffi Graf
(c) Martina Navratilova (d) Chris Evert

75. Who among the following wrote the book 'Algebra of Infinite Justice'?
(a) Anita Desai (b) Vikram Seth
(c) Arundhati Roy (d) Rohinton Mistry

76. The song "Bande Mataram" was originally composed in:
(a) Assamese (b) Bengali (c) Hindi (d) Sanskrit.

77. The first woman filmstar nominated to the Rajya Sabha was:
(a) Nargis Dutt (b) Shabana Azmi
(c) Madhubala (d) Meena Kumari

78. Which among the following music composers was deaf?
(a) Beethovan L.V (b) Bach J.S
(c) Richard Strauss (d) Johannes Brahms

79. Which one of the following plants is useful in treating hypertension ?
(a) Cinchona (b) Ocimum (c) Rauwolfia (d) Vinca

80. Who said "Man is a Social Animal" ?
(a) Plato (b) Aristotle (c) Rousseau (d) Socrates

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PART-C (COMPUTER LITERACY)

81. An Excel Workbook is a collection of -----
(a) Workbooks (b) Worksheets
(c) Charts (d) Worksheets and Charts

82. Word length of a Personal Computer is -----
(a) 4 bits (b) 8 bits (c) 16 bits (d) 64 bits

83. Which of the following is handy to carry yet can store large amounts of data?
(a) Floppy Disk (b) Hard Disk (c) CDROM (d) Zip Disk

84. Which of the following is the latest version of Excel ?
(a) Excel 2000 (b) Excel 2002 (c) Excel ME (d) Excel XP

85. A typical worksheet has ----- number of columns.
(a) 128 (b) 256 (c) 512 (d) 1024

86. In Computer language, 1 Kilobyte equals:
(a) 1000 Bytes (b) 1024 Bytes (c) 100 Bytes (d) 8 Bytes

87. Which switch should be used in the DIR command to view files in all directories ?
(a) /P (b) /W (c) /S (d) /L

88. When saving a document, a difference between "Save" and "Save As" is -----
(a) there is no difference -- they do exactly the same thing all the time.
(b) 'Save' will save a file that has already been assigned a name and saving location.
(c) 'Save As' allows one to change or set the name and/or saving location for the file.
(d) (b) & (c) only.

89. Which of the following is true about folders, directories and files ?
(a) A folder can contain a directory, but not a file.
(b) A folder can contain a file, but not a directory.
(c) A folder can contain a directory and a file.
(d) A file can contain files, directories and folders.

90. To insert a new slide in the current Presentation, we can choose -----
(a) CTRL + M (b) CTRL + N (c) CTRL + O (d) CTRL + F

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91. Computer software includes -----

(a) Application programs (b) Operating system programs
(c) Packaged programs (d) All of these

92. Which of the following is not a language for computer programming?

(a) WINDOWS (b) PASCAL (c) BASIC (d) COBOL

93. Who invented the computer?

(a) Leonardo (b) Dennis Gason (c) Charles Barbage (d) Percy L Spencer

94. M.S DOS is the name of a/an:

(a) Application Software (b) Hardware
(c) System Software (d) Programming Language

95. Which of the following are the best units of data on an external storage device?

(a) Bits (b) Bytes (c) Hertz (d) Clock cycles

96. Which of the following have the fastest access time?

(a) Semiconductor Memories (b) Magnetic Disks
(c) Magnetic Tapes (d) Compact Disks

97. Which of the following is a read only memory storage device.

(a) Floppy disk (b) Hard disk (c) CDROM (d) None of these

98. E-MAIL

(a) stands for electronic mail
(b) Stores purchase orders and invoices, between computers.
(c) Both A and B
(d) None of the above

99. Which of the following packages is used for composition in printing press?

(a) Lotus (b) Dbase (c) Page maker (d) Word Perfect

100. With regard to e-mail addresses :

(a) they must always contain an @ symbol.
(b) they can never contain spaces.
(c) they are case-Insensitive.
(d) all of the above