

# IBM Placement Papers

By

Careerit.in

## Written Test

*Written Test is of 4 sections consisting of 55 questions in 60 minutes. No negative marking.*

### Section 1 (Verbal Ability)

It contains 10 questions. 5 questions are filling in the blanks. They were quite easy and were mainly based on prepositions and use of articles.

Next part was a small reading passage and 5 questions were based on that passage. One should be able to understand that passage well to understand those questions and answer them.

### Previous Questions

- 1) I got \_\_\_\_\_ in traffic and so got late (stuck / stuck up)
- 2) Mr. Banerjee was questioned \_\_\_\_\_ (for / with / to) his connection regarding the murder case.
- 3) What is the meaning of therapeutically ?
- 4) The money was shared \_\_\_\_\_ the two.  
(a) Among (b) Between (c) a & b (d) None
- 5) \_\_\_\_\_ preparing for the exams, she had also prepared a presentation.  
  
a) Beside (b) Besides (c) a & b (d) None
- 6) The phone number was incorporated into the directory.  
(a) Exclude (b) Include (c) Condemned (d) None
- 7) He had been singing for a very long time, but until now he has never been seen \_\_\_\_\_ the opera house.  
(a) at (b) in (c) on (d) none
- 8) The sea food did not agree \_\_\_\_\_ him.  
(a) with (b) on (c) for (d) in
- 9) He was out of work \_\_\_\_\_ six months before he found a new job.  
(from/during/for/in).
- 10) The Chairperson usually presides \_\_\_\_\_ the meeting. (at/over/during/on).
- 11) The credibility of the game has been destroyed by the match-fixing scandals in cricket. (choose the word nearest in meaning).
- 12) They cost \$10 \_\_\_\_\_ kilo (the/a/an).
- 13) Black Monday was \_\_\_\_\_ most dramatic in a huge list of horrible days (a/an/the).
- 14) The proteins present in \_\_\_\_\_ apple, \_\_\_\_\_ banana, \_\_\_\_\_ Egg are very essential (fill in the blanks with articles-a, an, the)
- 15) Miss X ( some name is given ) has given a speech on \_\_\_\_\_ bank of \_\_\_\_\_ river Kaveri regarding \_\_\_\_\_ abilities of the women  
1. a, an, the 2. the, the, a 3. a, the, a 4. the, the, the
- 16) An essay about the ATM behavior and usage, security mechanisms, connectivity, technology used and like wise

1. How an ATM is connected to net.
2. What the operation not mentioned in the passage
  - a. with drawl    b. deposit    c. donations to charities
  - d . amount transaction between accounts
3. Which of the following is false?
  - i) Some time s Atm are un reliable.
  - ii) They are connected through modems.
4. Which is not a possible error regarding ATM.
  - a. mechanical error    b. s/w error    .i/p error
5. Why ATM s are kept in shops
  - a. because there is no chance of theft there
  - b. no space in banks.
  - c. there will be more no of people.

17) Sweets were distributed \_\_\_\_students (among, between).

18) He had \_\_\_\_experience in driving(a, an or no article required).

## **Section 2(Analytical Ability)**

***Consists of 25 questions to be answered in about 30 minutes.***

Few questions will be based on analytical reasoning. Few statements will be given and we are supposed to analyze them and answer the questions that follow.

This is one important aspect where the student needs to practice a lot.

Ex: On a particular day, students who visited a canteen ordered a burger, a pastry or a sandwich. 19 students had a burger, 25 had a pastry, and 27 had a sandwich. 7 students had a burger and a pastry but not a sandwich, 9 had a pastry and sandwich but not a burger, and 5 had a burger and sandwich but not a pastry. 3 students had a burger, a pastry and a sandwich.

How many students had only a burger?

How many students had only a pastry?

How many students had only a sandwich?

Some questions will be based on blood relations. They will be easy to solve.

Ex: Introducing a man, a woman said, "He is the only son of my mother's mother". How is the woman related to the man? (ans: Niece).

Some questions were on quant part. They include questions on ages, time & work, averages. U can refer t these problems from R.S.Agarwal.

Some were on data sufficiency. They will be quite easy to solve.

***Some questions were on the following pattern:***

In a binary system 1 is written as \$ and 0 is written as \*. In this system as 1 moves to the left the value of the number doubles itself. (Clearly this was the problem of binary conversions. You just needed to put \$ n \*s in place of 1s n 0s after doing proper conversions).

**Previous Questions**

- 1) In a party 10 ate fruits, 15 ate cereals and 8 both. What is the number of people who ate at least one?
- 2) In a college students can play cricket or basketball. 500 play cricket. 220 played both and 600 played basketball. What is the total strength of college?
- 3) In a school 10 can play cricket but only 5 can play both cricket and foot ball 8 can play only football .What is the number of students?.
- 4) Question on cube: there is 3 cube of each placed side by side. Each cube is subdivided into 64 parts each. 16 cubes from the top layer of 2nd cube was taken out and 32 cubes from the top 2 layers of 3rd cube. Then the whole object was painted.

Qs

- 1)what is the no. of cubes painted in 1 side alone?
- 2)what is the no. of cubes painted on 3 sides?
- 3)what is the no. of cubes painted on all 4 sides?
- 5) How would no's like 65,252 would be written in the given system.(Just convert them to binary)
- 6) What is the LCM of 6,4,8?
- 7) There are 32 tables in a room. 9 tables have salt bottles on them. 1 table has salt and pepper only, 1 table has salt and sugar only and 1 table has pepper and sugar only.3 tables have all of them. The difference between the tables containing pepper and sugar is 2. Find the following..

- [1] No. of tables containing sugar. [Ans: 17]
- [2] No. of tables containing sugar only. [Ans: 12]
- [3] No. of tables containing pepper. [Ans: 15]
- [4] No. of tables containing pepper only [Ans: 10]
- [5] No. of tables containing salt only. [Ans: 4]

- 8) If 5 cakes take 1 hr 30 minutes to bake in an oven when kept together, then how much will it take 10 cakes to bake in an oven when kept together? [ Ans: Same time ]
- 9) P and Q can write 135 pages in 27 hrs. P can write 3 pages in 1 hour. How much time will it take Q to write 42 pages. [ Ans: 21]
- 10) A beats B in a 100 race by 10m. B beats C in the same race by 10m. Then by how much does A beat C in the same race. [Ans: 20m]

- 11) A class took an exam and each scored either 80 or 100 marks. If 10 students gave the exam and 100 was the max score one could get, then find out how many got 100 marks if the average of the class was 94. [Ans : 7]
- 12) PQ is parallel to RS. if angle PPQ = 30 deg. then find angle PRS.
- 13) Some boys and girls together works to finish a work Find no. of days it will take  
(i) 4 boys and 5 girls  
(ii) boy complete a work in 6 hours and girls in 8 hours
- 14) P said to Q that "I met the brother of daughter of my grandmother". Then how that person related to P  
a) brother                      b) uncle                      c) father
- 15) In a row of persons D is 7th from left and R is 12 from right. If D and R interchange their places, D would occupy 22nd place from left. Find how many boys are there?
- 16) 19, 24, 20, 25, 21, 26, ? a:22
- 17) 11, 14, 12, 15, 13, 16, ? a: 14
- 18) 10, 2, 8, 2, 6, 2, ? a:4
- 19) 8, 9, 11, 14, 18, 23, ? a:29
- 20) 25, 25, 22, 22, 19, 19, ? a:16
- 21) 14, 2, 12, 4, 10, 6, ? a:8
- 22) 7, 16, 9, 15, 11, 14, ? a:13
- 23) 40, 42, 39, 44, 38, 46, ? a:37
- 24) 3, 18, 4, 24, 5, 30, ? a:6
- 25) 18, 20, 22, 20, 28, 20, ? a:22
- 26) 18, 20, 10, 12, 4, 6, ? a:0
- 27) 7, 6, 8, 5, 3, 7, ? a:4
- 28) 9, 18, 21, 25, 20, ? a:30
- 29) 3, 3, 4, 8, 10, 36, ? a:33
- 30) 30, 28, 25, 20, 34, 28, ? a:21
- 31) 4, 8, 16, 32, 64, 128, ? a:256
- 32) 8, 16, 24, 32, 40, 48, ? a:56
- 33) 13, 11, 14, 12, 15, 13, ? a:16
- 34) 6, 18, 36, 108, 216, 648, ? a:1296
- 35) 4, 4, 8, 8, 16, 16, ? a:32
- 36) 2, 6, 18, 54, 162, 486, ? a:1458
- 37) 4, 20, 35, 49, 62, 74, ? a:85
- 38) 10, 18, 15, 23, 20, 28, ? a:25
- 39) 4, 10, 8, 14, 12, 18, ? a:16
- 40) 10, 15, 12, 17, 14, 10, ? a:16
- 41) A clerk multiplied a number by ten when it should have been divided by ten. The ans he got was 100. what should the ans have been? a:1
- 42) If Rs20/- is available to pay for typing a research report & typist A produces 42 pages and typist B produces 28 pages. How much should typist A receive? a:Rs12/-
- 43) The average salary of 3 workers is 95 Rs. per week. If one earns Rs.115 and second earns Rs.65 how much is the salary of the 3rd worker. Ans.105.

- 44) A 16 stored building has 12000 sq.feet on each floor. Company A rents 7 floors and company B rents 4 floors. What is the number of sq.feet of unrented floor space? Ans.60000
- 45) During a given week A programmer spends  $\frac{1}{4}$  of his time preparing flow chart,  $\frac{3}{8}$  of his time coding and the rest of the time in debugging the programs. If he works 48 hours during the week, how many hours did he spend debugging the program? Ans 18.
- 46) A company installed 36 machines at the beginning of the year. In March they installed 9 additional machines and then disconnected 18 in August. How many were still installed at the end of the year. Ans. 27
- 47) A man owns  $\frac{2}{3}$  of the market research beauro business and sells  $\frac{3}{4}$  of his shares for Rs. 75000. What is the value of Business? Ans.150000
- 48) If 12 file cabinets require 18 feet of wall space, how many feet of wall space will 30 cabinets require?Ans.45
- 49) A computer printer produced 176,400 lines in a given day. If the printer was in operation for seven hours during the day, how many lines did it print per minute? Ans.420.
- 50) From its total income, A sales company spent Rs.20, 000 for advertising, half of the remainder on commissions and had Rs.6000 left. What was its total income? Ans.32000
- 51) On Monday a banker processed a batch of cheques, on Tuesday she processed three times as many, and on Wednesday she processed 4000 cheques. In the three days, she processed 16000 cheques. How many did she process on Tuesday? Ans.9000
- 52) The cost of four dozen proof machine ribbons and five dozen accounting machine ribbons was Rs.160/-. If one dozen accounting machine ribbons cost Rs.20/-, what is the cost of a dozen proof machine ribbons? Ans.Rs.15
- 53) If a clerk can process 80 cheques in half an hour, how many cheques can she process in a seven and one half hour day? Ans.1200
- 54) In a library, there are two racks with 40 books per rack. On a given day, 30 books were issued. What fraction remained in the racks? Ans. $\frac{5}{8}$
- 55) The average length of three tapes is 6800 feet. None of the tapes is less than 6400 feet. What is the greatest possible length of one of the other tapes? Ans.7600
- 56) A company rented a machine for Rs.700/- a month. Five years later the treasurer calculated that if the company had purchased the machine and paid Rs.100/- monthly maintenance charge, the company would have saved Rs.2000/-. What was the purchase price of the machine? Ans.Rs.34000
- 57) Two computers each produced 48000 public utility bills in a day. One computer printed bills at the rate of 9600 an hour and the other at the rate of 7800 an hour. When the first computer finished its run, how many bills did the other computer still have to print? Ans.9000
- 58) If a salesman's average is a new order every other week, he will break the office record of the year. However, after 28 weeks, he is six orders behind schedule. In what proportion of the remaining weeks does he have to obtain a new order to break the record? Ans. $\frac{3}{4}$

- 59) On a given day, a bank had 16000 cheques returned by customers. Inspection of the first 800 cheques indicated that 100 of those 800 had errors and were therefore the available immediately for data processing. On this basis, how many cheques would be available immediately for data processing on that day? Ans.14000
- 60) A company figured it needed 37.8 sq.feet of carpet for its reception room. To allow for waste, it decided to order 20% more material than needed. Fractional parts of sq.feet cannot be ordered. At Rs.9/- a sq.feet, how much would the carpet cost? a) Rs.324 b) Rs.405 c) Rs.410 d) Rs.414 e) Rs.685
- 61) A tape manufacturer reduces the price of his heavy duty tape from Rs.30/- to Rs.28/- a reel and the price of a regular tape from Rs.24/- to Rs.23/- a reel. A computing centre normally spends Rs.1440/- a month for tapes and  $\frac{3}{4}$  of this is for heavy duty tapes. How much will they save a month under the new prices? Ans.Rs.87
- 62) In a team of 12 persons,  $\frac{1}{3}$  are women and  $\frac{2}{3}$  are men. To obtain a team with 20% women how many men should be hired? Ans.8
- 63) The dimensions of a certain machine are 48" X 30" X 52". If the size of the machine is increased proportionately until the sum of its dimensions equals 156", what will be the increase in the shortest side? Ans. 6"
- 64) In a certain company, 20% of the men and 40% of the women attended the annual company picnic. If 35% of all the employees are man, what percent of all the employees went to the picnic? Ans.33%
- 65) It cost a college Rs.0.70 a copy to produce a Program for the homecoming football game. If Rs.15,000/- was received for advertisements in the program, how many copies at Rs.0.50 a copy must be sold to make a profit of Rs.8000/- ? Ans. 35000

### **Section 3(Attention to detail):**

*It consists of 10 questions. It is very easy section where one can score maximum.*

For this part you can refer Verbal Reasoning by R.S.Agarwal.

All you need to do is just hold on patiently and calculate to check which of the given options is correct.

A set of questions were based as:

There were conditions given as to how a marketing executive would be selected and in the following questions individuals with their qualifications were given. Based on the previous conditions given, u has to decide whether each one can qualify or not.

### **Previous Questions**

- 1) If + is replaced by \*, - is replaced by /, \* is replaced by +, / is replaced by \* then calculate  $2/65*3+65-23$ .
- 2) Find any dissimilarity.  
234222272451    23422272451    234222272451

- 3) Which one is correct?
  - a.  $35-2+4/3\%42=35$
  - b.  $25+4-5\%6*7=28$
- 4) If + is replaced by \*, \* is replaced by -, - is replaced by /, / is replaced by % and % is replaced by + then what is the value of the following expression.  
 $25-3+32/5\%2$
- 5) Strings are given as
  - a. 66749384879456
  - b. 6674934879456
  - c. 6674934879456
- 6) a. XVIIMIVIIIIVIXIV      b. XIIVMIIIVXIVIIIIV      c. XVIIMIVIIIIVIXIV
- 7) a. 34523897346579      b. 343647654869679      c. 34654836487437. Comparisons based on the options given.

#### **Section 4(Technical):**

***This section consists of 10 questions.***

Some questions on C, database, Unix etc.

Some C code snippets will be given and we are supposed to find the outputs or errors if any. For this part "Test your C Skills" by Yeshwanth Kanethkar is very useful.

#### **Previous Questions**

- 1) A directed graph is also called \_\_\_\_.
- 2) In a queue the end at which insertions are performed is called the \_\_\_\_ end and the end from where deletions are done is called the \_\_\_\_ end.
- 3) The operator used to get value at address stored in a pointer variable is \_\_\_\_.
- 4) char a [] ="have a nice day!" then p+=7 points to \_\_\_\_
- 5) Question about normalization.
- 6) What permission would chmod 755 yields on a file?
- 7) The state of the file system is contained in a \_\_\_\_ block.
- 8) O/p of printf("%d",printf("sum"));
- 9) Question on cardinality relationship in a ER diagram(Given)
- 10) Question on relationship in Hierarchical database files can be accessed by\_\_\_\_\_  
 (library functions, system calls, both, none)
- 11) Unix is \_\_\_\_ (Multi-user & Multitasking)
- 12) Files in Bourne shell can be checked by( test -f, if(file), switch(file))
- 13) What is the time complexity of quick sort?
- 14) What is the command to kill or stop a process in UNIX ( kill, stop, terminate)
- 15) int i=10;



```
printf("%d%d%d",i,i++,++i);
```

Ans: compiler dependent

16) printf("Enter two values a and b:");

```
scanf ("%d%d",a,b);
```

```
printf ("%d+%d=%d",a,b,a+b);
```

Ans: core dumped

17) Question on WM\_SIZE

Ans: WM\_SIZE

18) When a window is destroyed, what message would be displayed?

Ans: WM\_DESTROY

19) MS Windows 3.1 about multitasking

Ans: nonpreemptive

20) Windows 3.1 is

Ans: application

21) About switch statement

Ans: 16,21

22) Question paper the first question ans is

Ans: can't be compiled.

23) About send messages and post messages

Ans: c

24) 10) What is the command to initiate the windows

Ans: WinMain

25) Const char \*

char \* const

What is the difference between the above two?

26) In UNIX inter process communication take place using?

27) What are the files in /etc directory?

28) About i-node numbers

29) Maximum relax able permission value with out giving write permission to others?

30) About ln(linking)

31) A question on until

until (who |grep mary)

do

sleep (60)

done

32) Linking across directories?

33) Process id for kernel process

34) Very first process created by kernel

35) Function to repaint a window immediately?

36) Function entry for DLL in win3.1

37) win 3.1 is a \_\_\_\_\_

38) Win 3.1 supports which type of multi tasking?

39) Message displayed when a window is destroyed

40) About fork ()?

- 41) About send message and post message
- 42) Message to limit the size of window
- 43) System call executable binary file into a process
- 44) About GDI object?
- 45) API used to hide window
- 46) Initialize contents of a dialog?
- 47) to limit the size of window
- 48) System call executable binary file into a process
- 49) In Unix inter process communication take place using?

The above four sections constitute the written test.

The paper will be very easy but all you need to remember is that cut-off mark will be higher.

## Technical Interview

- Be careful while preparing your resume. Do not include subjects you don't know.
- They will be mainly concentrating on your resume and ask questions.
- Questions will be based on C, Database, UNIX, DS, OS and CN.
- They will concentrate much on these subjects.
- They may even ask u simple puzzles.

Ex: There is a 3 liters can and 5 liters can. How does u measure exactly 4liters?

They can ask us to write programs.....Writing the correct program is not that important but the logic u follow and your approach is what they look at.

They may ask you about your favorite subject and ask questions on that. You need to be careful while telling them what your favorite subject is.....

For non computer science students, they have to concentrate on their core subjects.

### Few questions are:

- 1) What is trigger in DBMS?
- 2) Question on pointers i.e., pointers to arrays, array of pointers, etc.
- 3) Various CPU scheduling algorithms in OS
- 4) Program for Pascal's triangle.
- 5) Query to output the name of the employee with 2<sup>nd</sup> maximum salary.
- 6) Normalization concepts. At least an idea regarding them.
- 7) Various protocols used in Computer Networks.
- 8) OOPS concepts.
- 9) How do u prove that a circular-linked list is a circular-linked list.(There may be many solutions for such questions, but the optimal approach is important).
- 10) Program for Banker's algorithm.

## 11) File system in UNIX.

### Few Tips:

You should appear confident.

Maintain proper eye-contact with the interviewer.

Be honest.

Try to arrive at the solution. Do not give it up easily.

Be loud and clear.

## **HR Interview**

This round may also contain Technical questions. It depends upon the interviewer. All you need to do is talk something which makes sense.

They will ask u general questions.

- First and foremost question will be tell me about yourself.
- You are supposed to continue with the answer till he interrupts you and asks some other question.
- You are not supposed to talk about your weakness unless and until he asks u.
- Which websites do you browse frequently n y? N they ask u questions based on it.
- What is your latest movie? They ask us to give the gist of the story? What did u like in the movie?
- Questions on your strengths and weaknesses.
- How could you add value to IBM if you got this job?
- What do you know about IBM?
- Why would you want to join IBM?
- How do you feel if I reject you?
- What is your dream company?

Just give positive answers. Don't get tensed.

## **Group Discussions**

The panel will judge team members for their **alertness and presence of mind, problem-solving abilities, ability to work as a team** without alienating certain members, and creativity.

### Do's & Dont's

- Never get tensed about GD.
- Read the newspapers, current affairs magazines and business magazines.
- Read books on the area you are planning to specialize into.

### Few Tips:

- **Be as natural as possible.** Do not try and be someone you are not. Be yourself so the employer gets to know the real you.
- A group discussion is your **chance to be more vocal**. The point of interest to the evaluator is to hear you speak.
- **Take time to think of what you are going to say** - if allowed, take a piece of paper and a pen with you and jot down your thoughts, before verbalizing them. This could help you create the right framework for your discussion.
- If you have any doubts regarding the subject or about what another team member has said, **ask for clarification**.
- Don't start speaking until you have clearly understood and analyzed the subject.
- **Work out various strategies to help you make an entry:** initiate the discussion or agree with someone else's point and then move onto express your views.
- **Do not be swayed** when you are told that opening the discussion is the only way of gaining attention and recognition. If you do not give valuable insights during the discussion, all your efforts of initiating the discussion will be in vain.
- The score you receive depends not only on your verbal communication, but also on **non-verbal skills**. Your body language says a lot about you - your gestures and mannerisms are more likely to reflect your attitude than what you say.
- Language skills are important only to the extent as to how you **get your points across clearly and fluently**.
- **Be assertive not dominating:** try to maintain a balanced tone in your discussion and analysis.
- **Be patient:** don't lose your cool if anyone says anything you object to. The key is to stay objective: Don't take the discussion personally.
- **Always be polite:** Try to avoid using extreme phrases like: 'I strongly object' or 'I disagree'. Instead try phrases like: 'I would like to share my views on...' or 'One difference between your point and mine...'
- **Brush up on your leadership skills:** motivate the other members of the team to speak, and listen to their views. Be receptive to others' opinions and do not be abrasive or aggressive.

## Essay Writing

Steps to be followed while writing an essay. These will help you in writing an excellent essay. You need to be careful about your vocabulary, grammar, sentence formation.

- Read the essay question carefully.
- Prepare an outline or diagram of your ideas.
- Write your thesis statement.
- Write the body.
  - Write the main points.
  - Write the subpoints.
  - Elaborate on the subpoints.
- Write the introduction.
- Write the conclusion.
- Add the finishing touches.

www.FirstRanker.com