



## INDIAN INSTITUTE OF TECHNOLOGY ROPAR

### Written Test for recruitment to the post of Junior Assistant

Date: 05.10.2013

Venue: IIT Ropar

#### INSTRUCTIONS TO THE CANDIDATES

1. The test contains 60 multiples-choice questions.
2. The total time allotted for the Test is 60 minutes.
3. Four possible answers A, B, C and D are included against each question. You are required to select the correct answer and write your answers in the box provided in the answer sheet.
4. Each correct answer carries one mark.
5. Use of calculators is prohibited.
6. **NAME & ROLL NO.** (Using ball point pen): Write your name and roll number in the answer sheet.
7. **SIGNATURE OF THE CANDIDATE:** Sign in the place provided in the answer sheet.
8. For rough work, use the space provided in the question paper.



**Time: 60 Minutes**

- Number of Questions-60
- All question carry equal marks

1. Compute  $111 + 222 + 333 + 444$

- A) 1210                      B) 1220                      C) 1110                      D) 1111

2. Compute  $2131 - 3132$

- A) -1000                      B) -1002                      C) 1001                      D) -1001

3. What is the value of  $2^{10}$  ?

- A) 1000                      B) 1014                      C) 1024                      D) 1023

4. Compute  $2.05 \times 0.03$

- A) 0.0615                      B) 0.6150                      C) 0.0065                      D) 0.0015

5. Simplify  $1 - 2 \times 5 + 10 / 2$

- A)  $5/2$                       B) -4                      C) 4                      D) 0

6. Compute  $-730 \times (-1000)$

- A) 73000                      B) -730000                      C) 730000                      D) -731000

7.  $(1/3) + (1/9) = ?$

- A)  $4/9$                       B)  $3/9$                       C)  $2/9$                       D)  $9/27$

8. Divide 5.5 by 0.75

- A)  $33/8$                       B)  $22/3$                       C)  $22/8$                       D)  $22/4$

9. Divide  $-777$  by  $-111$   
A) 7                      B)  $-7$                       C)  $-7.7$                       D)  $0.777$
10. Divide  $89231$  by  $-1000$   
A)  $-8.9231$                       B)  $89.231$                       C)  $-89.231$                       D)  $892.31$
11. Divide  $1/8$  by  $1/2$   
A)  $1/16$                       B)  $1/4$                       C)  $5/8$                       D)  $4$
12. Simplify  $(1/6) \times (3/2) / 4$   
A)  $1$                       B)  $1/8$                       C)  $16$                       D)  $1/16$
13. An overhead tank is  $6 \text{ ft} \times 5 \text{ ft} \times 4 \text{ ft}$ . What is its volume?  
A)  $120 \text{ ft}^3$                       B)  $120 \text{ ft}$                       C)  $120 \text{ ft}^2$                       D)  $120$
14. A concrete slab has the dimension  $6' \times 7' \times 6''$ . How much space does it occupy?  
A)  $252 \text{ ft}^3$                       B)  $25.2 \text{ ft}^2$                       C)  $21 \text{ ft}^3$                       D)  $21 \text{ ft}^2$
15. What is the square-root of  $0.16$ ?  
A)  $0.4$                       B)  $0.04$                       C)  $4.0$                       D)  $0.004$

- 16 Choose the word closest in meaning to CPU from the following ?  
A) Execute  
B) Microprocessor  
C) Microchip  
D) Decode
- 17 The internet is a system of ?  
A) Software programs B) Web pages C) Interconnected networks D) Web sites
- 18 **WWW** is an acronym for ?  
A) World Wide Wait  
B) World Wide Wrestling  
C) World Wide Web  
D) World Wildlife Web
- 19 What does **F** mean on the F1, F2,...,F4, etc., keys on the keyboard ?  
A) Function B) File C) Format D) Find
- 20 1 terabyte = 1024 ?  
A) Bytes B) Kilobytes C) Megabytes D) Gigabytes
- 21 Which Indian state has the largest forest area ?  
A) MP B) UP C) Karnataka D) APt
- 22 Which Planet is called Red Planet?  
A) Sun B) moon C) Mars D) Jupiter
- 23 How many schedules are in Indian constitution?  
A) 10 B) 11 C) 12 D) 13
- 24 What is the normal duration of the Hockey Game?  
A) 45 Minutes B) 30 Minutes C) 60 Minutes D) 70 Minutes

- 25 Zero Degree centigrade equal to ----- degree Fahrenheit  
A) 24  
B) 28  
C) 32  
D) 36
- 26 Who among the following is the Governor of Punjab ?  
A) R.S. Gavai  
B) Syed Sibti Razi  
C) S.K. Singh  
D) Shivaraj Patil
- 27 Which Batsman started his International cricketing career at the age of 16 ?  
A) Suresh raina  
B) Sachin Tendulkar  
C) Piyush chawala  
D) Rahul Dravid
- 28 Which of the following is not the Commercial Bank?  
A) Reserve Bank of India  
B) State Bank of India  
C) Oriental Bank of Commerce  
D) Punjab National Bank
- 29 Which of the following line passes through India?  
A) Tropic of Cancer  
B) Tropic of Capricorn  
C) Equator  
D) None of the above
- 30 Ground Zero is located at  
A) Mount Everest  
B) New york  
C) Washington  
D) London

- 31 All \_\_\_\_\_ to the name of the candidate have to be deleted due to issues related to confidentiality of the applicant  
A) issues                      B) subjects                      C) references                      D) topics
- 32 Indents related to purchase of specific equipment need to be \_\_\_\_\_ by the purchase section  
A) discussed                      B) approved                      C) referred                      D) finalized
- 33 The student has to \_\_\_\_\_ his thesis before the committee before he can be awarded his degree  
A) defend                      B) read                      C) narrate                      D) publish
- 34 The finance section is responsible for \_\_\_\_\_ of the salaries of employees  
A) distribution                      B) disbursement                      C) approval                      D) assessment
- 35 The International Relations Cell is \_\_\_\_\_ for international collaborations  
A) involved with                      B) concerned with                      C) agreed                      D) responsible
- 36 The funding agency will only \_\_\_\_\_  
A) reimburse the travel expenses for the conference  
B) the travel expenses for the conference reimburse  
C) the conference travel expenses reimburse  
D) reimburse the travel conference expenses
- 37 In order to decide about the candidate, \_\_\_\_\_  
A) he has to send research publication list and a complete curriculum vitae  
B) a complete curriculum vitae and a list of recent publications he has to send  
C) he has a complete curriculum vitae and send a complete list of his recent publications  
D) he has to send a list of his recent publications as well as his complete curriculum vitae
- 38 The students would like to know \_\_\_\_\_  
A) a decision has been taken if about access to the WLAN.  
B) if a decision has been taken about access to the WLAN.  
C) has if a decision has been taken about the WLAN.  
D) about the WLAN if a decision has been taken..

- 39 If you want good grades you need to \_\_\_\_\_ your studies  
A) focus by                      B) focus with                      C) in focus                      D) focus on
- 40 As an administrative staff at the Institute I need to be able to \_\_\_\_\_ the goals of the Institute  
A) understand                      B) explained                      C) disregard                      D) recite
- 41 Anita is writing to the registrar for a job at the Institute. She should address the registrar as  
A) Dear Mr. Registrar  
B) Mr. Registrar  
C) Dear Madam / Sir  
D) Registrar
- 42 Which of the following is an effective and polite reminder to a thesis referee ?  
A) Don't send the reports late again  
B) The last date for submission of the reports was the 31.12.2007. You are requested to submit the report at the earliest  
C) You have not yet submitted the report. Please do so at the earliest  
D) This is a reminder for the reports
- 43 You have been asked to request information regarding travel reimbursement for a conference. Which of the following expressions would be most suitable ?  
A) we request you to send us the details regarding travel reimbursement  
B) who is footing the bill for the travel expenses?  
C) who will be paying for the travel expenses?  
D) we would like to know, who is paying for the travel?
- 44 The purchase section has the payment of a vendor ready. Which of the following is the most suitable sentence?  
A) your cheque is ready, come and collect it  
B) your payment has been cleared  
C) The cheque for your payment is ready. Please collect it as soon as possible  
D) Collect your payment as soon as possible
- 45 The books ordered by the department have not been delivered yet. What would you write in a letter and ask about the delay  
A) why is the delivery of the books delayed?  
B) explain the delay in delivery of the books  
C) we are very angry about the delay in delivery of the books  
D) can you please tell us why the delivery of the books has been delayed so much? When can we expect to receive them?



**INSTRUCTIONS:**

This is a concentration test. In this test you must solve simple calculations. However, these exercises are coded. The Numbers are replaced with symbols according to the legend below:

◇	■	□	●	○	↑	↓
0	1	- 1	2	- 2	3	- 3

Every exercise should be solved in the following manner:

Example:

<b>Q. No.</b>								<b>ANSWERS</b>			
<b>1.</b>	↑	■	◇	○	◇	●	↓	<b>A</b>	<b>B</b>	<b>C</b>	<b>D</b>
								<b>1</b>	<b>3</b>	<b>2</b>	<b>-4</b>

Correct Answer : **A**

You must translate the symbols into numbers and calculate the result. You must then choose the correct answer from the options A, B, C, D and mark it correctly.

Q. No.								ANSWERS				
	A	B	C	D								
46	↑	■	●	○	◇	●	↓	=	3	2	-3	-1
47	■	○	↑	↓	□	◇	●	=	-2	-1	0	1
48	●	□	◇	■	↑	○	●	=	-5	4	-4	5
49	□	○	↑	■	○	◇	□	=	0	-2	6	1
50	◇	■	■	○	◇	↑	○	=	1	5	-1	-5
51	■	↓	↑	↑	○	◇	↓	=	-1	0	2	7
52	↑	■	○	◇	●	■	↑	=	-1	-11	8	-4
53	○	●	■	□	↑	↓	◇	=	1	0	2	3
54	●	□	○	□	↑	↓	□	=	3	4	5	-3
55	◇	↑	■	○	■	↑	○	=	4	-3	2	-5
56	○	↓	↑	↓	□	○	◇	=	-9	0	-8	-7
57	↓	■	□	●	↑	◇	○	=	1	0	3	5
58	↑	○	↑	○	↑	○	○	=	1	6	-2	-3
59	■	↓	↓	■	○	○	○	=	1	8	-7	-10
60	○	●	↓	↑	◇	○	●	=	9	7	0	6

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