# भारतीय प्रौद्योगिकी संस्थान रोपड़
## INDIAN INSTITUTE OF TECHNOLOGY ROPAR
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**Time Allowed: 60 minutes**

**CONFIDENTIAL**

### TEST PAPER

Name of Candidate:_____

Roll No_____

Signature of the Candidate: (Sign with date) _____

**Instructions:**

1. Candidates to write their name, as per the application for the said post, write the roll No. allotted and sign with date of the test in the given space in the Test Paper.
2. All Questions are compulsory. Candidates will not be allowed to leave the exam hall earlier than the time allotted.
3. Questions carry 2 marks each and 50% of the marks allotted to the respective question will be deducted for wrong answer from the total marks earned.
4. This Test paper consists of 16 pages. Candidates to use the question paper to mark the answers. The chosen answer may be marked in PEN by encircling the appropriate number in the answer line of multiple choices
5. Malpractices, if found, will amount to suitable actions including debarring the candidature from the recruitment process
6. No extra paper will be provided. Candidates may use space provided in the margin and at page 16 for work sheet etc.
7. Use of Pencil marking, use of calculators in any form, mobile phones and correction of answers once marked are not allowed.
8. Read carefully before the marking of the answer against the questions and on completion of the test period please handover the same to the examiner before leaving the exam hall.

### Read the given passage carefully and answers the questions given below:

A. In the hospital, I was thinking about the most exceptional people I've known. They were the ones who kept going when others quit; the ones who found ways to do what everyone else thought couldn't be done. They didn't just hold down a job or work hard. They were reaching deeper inside and finding something more. They made a greater difference. I don't believe they would have understood these words - "he held the frame so we both could see the inscription" - "the way I did."

B. "I remember my parents and other adults in my hometown saying, "Study hard and work hard but don't let your dreams get too big. If you do that, you'll only be disappointed.'

C. "Learn to fit in and go along,' they said, 'that's what successful people do.' I got very good at fitting in and going along." His voice trailed off.

D. "Robert, you're going to hear the same kinds of things from people around you. They're well-intentioned but they're wrong. What if I hadn't accepted it? What if every day I had questioned yesterday's definition of my best? What if I'd listened to my own heart instead of their words? Then I might have kept looking deeper and giving the world more of the best that was hidden inside me."

E. "And if I'd done that," he said, "more of the best would have come back to me, and to this family, and to you, Robert. But it won't," he said, "because I didn't do it."

F. "So this is my challenge to you-to live these words." He handed me the frame. There was no glass in it; I ran my fingertips over the words and felt the brittle paper. "But grandfather," I said, not wanting to disappoint him but unsure of 73 how to accomplish what he was asking me, "maybe when I'm older..."

G. "Age has nothing to do with it. Every day you can learn something more about who you are and all the potential that's hidden inside you. Every day you can choose to become more than you have been. I'm asking you straight right now."

H. "But how?"

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I. "By looking inside yourself. By testing new possibilities. By searching for what matters most to you, Robert. Few of us ever do that for ourselves. Instead, we hold our breath. We look away. We get by or go along. We defend what we have been. We say, "It's good enough." I pray you don't wake up one day and say, "I've been living my life wrong and now it's too late to make it right."

J. Young as I was, I could still see the pain his regret was causing him, and even then I recognized that the gift he was giving me was as much in honesty as in the specific words he was so determined for me to hear.

K. "Robert, all of us are mostly unused potential. It's up to you to become the most curious person you know and to keep asking yourself, What is *my* best? Keep finding more of it every day to give to the world. If you do that, I promise that more of the best than you can ever imagine - and in many ways beyond money - will come back to you."

L. And it has. Despite my struggles and mistakes along the way, I have learned that there are opportunities, for each of us that exist beneath and beyond conventional thinking and self imposed limits. What my grandfather realized too late that he had not done, he challenged me to do. In this book, I pass the challenge to you.

1. **Who, according to the writer, are exceptional people?**
   (a) Kept going when others quit, found ways to do what others couldn't, made difference
   (b) Go by the advisers and do what is advised
   (c) Keep watching the things carefully
   (d) Have the capacity to imagine the things

2. **What, according to his parents, did *'successful'* people do?**
   (a) Go slow on the matter and decide later
   (b) Learn to fit in and get along, study hard, work hard but don't let dreams become too big
   (c) Visit as many places as possible to understand the matter
   (d) Adjust to the changes coming their way

3. **What does one need to do to *"become more than you have been"*?**
   (a) Dream for what you do not have
   (b) Barrow from others as much as possible
   (c) Looking inside oneself and learning
   (d) Give to others what you have

4. **The phrase which means *"looking inside yourself"***
   (a) Speaking louder
   (b) Introspection
   (c) Examination
   (d) Experimentation

5. **What did the writer learn from his struggles and mistakes?**
   (a) It is useless to spend more time on difficult tasks
   (b) Learnt to search for potential opportunities
   (c) It is necessary to wait and watch for the developments
   (d) Be careful about the future opportunities

6. Find words from the passage which mean the same as hard but easily broken (para F)

   (a) Challenge
   (b) Accomplish
   (c) Wanting
   (d) Brittle

7. Find words from the passage which mean the same as possibility for developing (para K)

   (a) Curious
   (b) Imagine
   (c) Beyond
   (d) Potential

CHOOSE THE CORRECT OPTION FROM THE CHOICES GIVEN UNDER THE QUESTION

8. You have _____ all that is necessary.

   (a) do
   (b) doing
   (c) done
   (d) did

9. He made a sign to the others _____ they might safely come back.

   a) what
   b) that
   c) when
   d) where

10. He waited _____ the lion to jump out of the cage.
    (a) in
    (b) to
    (c) at
    (d) for

11. If I am killed, you know _____ you must do.

    (a) That
    (b) What
    (c) When
    (d) where

12. He was in charge of a gang _____ all the men of gang loved him.

    (a) and        (b) but        (c) though        (d) so

13. I found _____ all the eighty pieces were in it.

   (a) what
   (b) which
   (c) that
   (d) then

14. Sanjay is _____ to visit his friends next week.

   (a) seeing
   (b) planning
   (c) meeting
   (d) organising

15. Piyush on his own purchased this plate_____ his son.

   (a) to
   (b) of
   (c) with
   (d) for

16. Raza is _____ called as pappu by his close friends right from school days.

   (a) fondly
   (b) singly
   (c) nearly
   (d) absolutely

17. The boss is very quick to _____ on blame to his subordinates.

   (a) keep
   (b) pass
   (c) throwing
   (d) carry

18. You _____ made a mistake.

   (a) has
   (b) had
   (c) have
   (d) did

19. The snake crawled _____ its hole.

   (a) into       (b) in              (c) for  (d) on

20. He thinks he is _____ (Article) Herculus.

   (a) a
   (b) an
   (c) the
   (d) none of these

21. Suyash brought _____ (Article) dozen apples.

   (a) a
   (b) an
   (c) the
   (d) none of these

22. He swam _____ (Article) Indian ocean.

   (a) a
   (b) an
   (c) the
   (d) none of these

23. Gold is _____ (Article) precious metal.

   (a) a
   (b) an
   (c) the
   (d) none of these

24. The teacher was _____ that I would get distinction.

   (a) Happy
   (b) Sure
   (c) so
   (d) certain

25. His face _____ as hen pale.

   (a) turned
   (b) colour
   (c) became
   (d) change

26. He is one of my close _____.

    (a) Friend
    (b) Friends
    (c) enemy
    (d) companion

27. The box is _____ heavy for me to lift it.

    (a) too
    (b) very
    (c) to
    (d) as

28. Shanti Bhushan is good _____ painting.

    (a) at
    (b) yet
    (c) on
    (d) in

29. I usually go to school _____ bus.

    (a) on
    (b) by
    (c) in
    (d) of

30. Anju is neither at home _____ at school.

    (a) or
    (b) nor
    (c) not
    (d) never

31. A clock shows the time as 6 a.m. If the minute hand gains 2 minutes every hour, how many minutes will the clock gain by 9 p.m.?

    (a) 30 minutes      (b) 25 minutes     (c) 28 minutes      (d) 34 minutes

32. Find the right number, from the given options, at the place marked by the question mark: 2, 4, 8, 32, 256, ?

    (a) 4096            (b) 8192           (c) 512             (d) 1024

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33. Find the number missing at question mark:   10, 11, 23, 39, 64, ?, 149

(a) 100           (b) 103           (c) 78           (d) 128

34. A super fast bus of KSRTC starting from 'Trivandrum' and reaches 'Attingal' in 45 minutes with an average speed of 40 km/hr. If the speed is increased by 10 km/hr how much time it will take to cover the same distance?

(a) 34 minutes    (b) 36 minutes    (c) 38 minutes    (d) 40 minutes

35. The difference between 6 times and 8 times of a figure is 14. What is the figure?

(a) 12            (b) 9             (c) 7             (d) 6

36. If 92y = 36 what is 9y?

(a) 4             (b) 6             (c) 9             (d) 18

37. One fourth percent of 180 is:

(a) 4.5           (b) 0.45          (c) 0.045         (d) 45

38. A candidate appearing for an examination has to secure 40% marks to pass paper I. But he secured only 40 marks and failed by 20 marks. What is the maximum mark for paper I?

(a) 100           (b) 200           (c) 180           (d) 150

39. Find the missing number 32, 52, 74, 112, 135 ……………

(a) 16            (b) 15            (c) 17            (d) 14

40. If 25`0 is increased to 300, what is the percentage increase?

(a) 16.67         (b) 20            (c) 23            (d) 17

41. The ratio of 9 seconds to 10 hours is ………….

(a) 1:40          (b) 1:4000        (c) 9:10          (d) 1:400

42. A person lost 10% when he sold goods at Rs.153. For how much should he sell them to gain 20%?

(a) 204           (b) 250           (c) 240           (d) 210

43. What will be xy if 7862xy is to be divisible by 125?

(a) 25　　　　(b) 00　　　　(c) 75　　　　(d) 50

44. A train of 100 meters long is running at the speed of 36 km per hour. In what time it passes a bridge of 80 meters long?

(a) 30 seconds　　(b) 36 seconds　　(c) 20 seconds　　(d) 18 seconds

45. If two-third of a bucket is filled in one minute then the time taken to fill the bucket completely will be .......

(a) 90 seconds　　(b) 70 seconds　　(c) 60 seconds　　(d) 100 seconds

46. If a quarter kilogram costs Rs. 60 then how much will cost for 150 grams?

(a) Rs. 30　　(b) Rs. 24　　(c) Rs. 36　　(d) Rs. 40

47. If 3 men or 6 boys can do a piece of work in 20 days then how many days with 6 men and 8 boys take to do the same work?

(a) 5　　(b) 8　　(c) 10　　(d) 6

48. Find the sum of first 100 natural numbers

(a) 5050　　(b) 5005　　(c) 9900　　(d) 9050

49. Two poles of height 6 meters and 11 meters stand on a plane ground. If the distance between their feet is 12 meters then find the difference in the distance between their tops:

(a) 12m　　(b) 5m　　(c) 13m　　(d) 11m

50. Interest on delayed payment of gratuity is applicable if...

(a)　The Government servant delays submission of papers.

(b)　The delay is attributable to clear administrative lapses.

(c)　The Government servant is ignorant of the rules.

(d)　All of the above

51. Annual Accounts in the Government system is prepared on

    (a) Cash basis
    (b) Accrual basis
    (c) Both
    (d) Neither

52. Maximum limit for carry forward of the EL by an employee in his/her career is :

    (a) 180 days
    (b) 360 days
    (c) 300 days
    (d) 82 days

53. The Annual increment will be 3% of

    (a) Pay in the Pay band
    (b) Pay in the Pay band + Grade Pay
    (c) Pay in the Pay band + Grade Pay + Dearness Allowance
    (d) None of the Above

54. Which of the following is central purchase organization

    (a) CSIO
    (b) DGS&D
    (c) DST
    (d) None of the above

55. Employees drawing grade pay equal and above Rs. _____ are entitled for travel by Air

    (a) Rs. 4200
    (b) Rs. 4600
    (c) Rs. 4800
    (d) Rs. 5400

56. Utilization certificate for the funds received by the Grant in Aid institutions are given in:

    (a) Form defined under GFR 19 A
    (b) Form defined under GFR 2
    (c) Form defined under GFR 3
    (d) Form defined under GFR 17

57. Reduction of pay to a lower stage without cumulative effect as defined in the CCS Rules is:-

   (a) A Minor Penalty
   (b) A Major Penalty
   (c) Can be treated as major penalty depending on the veracity of the misconduct
   (d) Not a penalty at all

58. A Government employee was found arrested for more than 48 hours under IPC

   (a) The employer should immediately request the Police Authority to release him
   (b) The employer shall place the employee under deemed suspension
   (c) The employer shall move an application in the CAT to release the employee
   (d) None of the actions are desirable as the crime is not yet proved

59. Cash handling allowance to the cashier can be released only after :-

   (a) Taking an undertaking an undertaking from the employee about his honest handling of the cash
   (b) Production of a detailed medical report by a medical practitioner
   (c) Obtaining the indemnity bond and insurance
   (d) None of the above requirements are necessary as the process is a minor activity

60. Which of the following expenditures in case of medical treatment are disallowed

   (a) Expenditure on the consultancy charge of doctor
   (b) Expenditure on prescribed ayurvedic medicine
   (c) Expenditure on life saving drugs
   (d) Expenditure on nutrition tablets

61. Competent authority to order for an Inquiry under Rule 14 is:

   (a) Immediate superior authority
   (b) Appointing Authority
   (c) Vigilance officer
   (d) Head of the Department

62. Engaging private advocates in the litigations pertaining to the Government departments is permissible

   (a) After due approval of Ministry of Law and Justice
   (b) If the head of the office finds it essential
   (c) Engagement of private advocates for such cases are not permissible
   (d) If the standing counsel suggests for the same

63. Physical verification of all stores should be made at least:
   (a) Once in three years
   (b) Once in six months
   (c) Once in a year
   (d) Once in five years

64. Two bid system in purchase of the Goods for department as defined under GFR 152 can be adopted:
   (a) For all purchases irrespective of the nature of items
   (b) If the head of the department decides to do so
   (c) For all items involving higher values
   (d) For Computer and equipment only

65. If Yellow is called Green, Green is called Black, Black is called White, White is called Red, Red is called Blue, Blue is called Orange then what is the colour of milk ?

   (a) White        (b) Black        (c) Red        (c) Green

66. Pointing to a photograph Seema said 'He is the only grandson of my mother's father-in-law'. How is the man in photograph related to Seema ?

   (a) Father    (b) Uncle        (c) Cousin        (d) Brother

67. If '+' means 'x', 'x' means '÷', '÷' means '–' and '–' means '+' what is the value of—
   17 + 15 – 135 × 9 ÷ 70 ?

   (a)270        (b) 240        (c) 170        (d) 200

68. A student was asked to add 16 and subtract 10 from a number. He by mistake added 10 and subtracted 16. If his answer is 14 what is the correct answer?

   (a) 20        (b) 26        (c) 30        (d) 32

69. If it is possible to make a meaningful word from the fourth, the fifth, the sixth, the eighth and the eleventh letters of the word GOURMANDISE using each letter only once first letter of the word is your answer. If more than one such word can be formed your answer is X. If no such word can be formed your answer is Y—

   (a) D        (b) R        (c) M        (d) X

70. Find the next term of the series: 3, 6, 9, 18, 27, 54, ......

   (a) 81          (b) 69          (c) 63          (d) 57

71. A number consists of 20 plus 20% of its value. The number is:

   (a) 20          (b) 22          (c) 25          (d) 30

72. 20% of 5 + 5% of 20 =

   (a) 5           (b) 2           (c) 6           (d) 21

73. Four of the following five are alike in a certain way and so form a group. Which is the one that does not belong to the group ?

   (a) Silver      (b) Gold        (c) Brass       (d) Copper

74. Rs. 1581 is divided among A, B and C in the ratio 10 : 15 : 6. What is the share of B?

   (a) 306         (b) 765         (c) 700         (d) 510

75. The sum of four consecutive counting numbers is 154. Find the smallest number:

   (a) 36          (b) 37          (c) 38          (d) 31

76. Which one of the following rivers originates near Mahabaleshwar?

   (a) Godavari        (b) Krishna        (c) Kaveri        (d)Tapi

77. With reference to the climate of India, the western disturbances originate over which one of the following ?

   (a) Arabian Sea     (b) Baltic Sea     (c) Caspian Sea    (d) Mediterranean Sea

78. In which one of the following states is the Nanga Parbat peak located ?

   (a) Sikkim      (b) Himachal Pradesh (c) Jammu and Kashmir   (d) Uttarakhand

79. In India, which of the following are the Southernmost hills ?

   (a) Anaimalai hills     (b) Cardamom hills     (c) Nilgiri hills     (d) Javacli hills

80. Where are the coal reserves of India largely concentrated ?

(a) Son valley  (b) Mahanadi valley  (c) Damodar valley  (Dd Godavari valley

81. Which of the following Indian island lies between India and Sri Lanka ?

(a) Elephanta  (b) Nicobar  (c) Rameshwaram  (d) Salsette

82. In which state do the Mansoon arrives first ?

(a) Assam  (b) West Bengal  (c) Maharashtra  (d) Kerala

83. Which one of the following Indian states leads in the production of rubber ?

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

84. Which one of the following areas of India does not come under the zone of high seismic intensity ?

(a) Uttarakhand  (b) Karnataka Plateau (c) Kachchh  (d) Himachal Pradesh

85. Between which ranges does the Kashmir valley in the Himlayas lie ?

(a) Siwalik and Pir Panjal (b) Pirpanjal and Dhauladhar

(c) Zanskar and Pir Panjal  (d) Dhauladhar and Zanskar

86. Which of the following is a part of the Central Processing Unit?

(a) Printer  (b) Key board  (c) Mouse  (d) Arithmetic & Logic unit

87. CAD stands for

a) Computer aided design
b) Computer algorithm for design
c) Computer application in design
d) All of the above

88. Which of the following is the unit of frequency?

(a) Ampere (b) Joule  (c) Hertz  (d) Newton

89. Which of the following have the highest upper limit of audible range?

(a) Bats  (b) Dogs  (c) Human beings  (d) Whales

90. The first-ever joint military exercise of Indian and Chinese troops was held in

    (a) Yunnan  (b) Visakhapatnam   (c) Beijing   (d) Bengalaru

91. Who among the following became the first batsman in the cricket history to score 150 or more runs in an innings in four consecutive Tests ?

    (a) Jacques Kallis
    (b) Sachin Tendulkar
    (c) Ricky Ponting
    (d) Kumara Sangakkara

92. Who among the following is the Director-General of International Labour Organisation ?

    (a) Guy Ryder    (b) Jacques Rogge  (c) Jacques Diouf    (d) Juan Somavia

93. 43rd International Film Festival of India in November 2012 will be held in -

    (a) Goa    (b) Maharashtra    (c) Karnataka  (d) Kerala

94. Who among the following is the Governor of Punjab ?

    (a) R.S.Gavai     (b) Syed Sibti Razi   (c) S.K.Singh  (d) Shivaraj Patil

95. Pravasi Bharatiya Divas (PBD) is celebrated on 9th January to commemorate the following:-

    (a) Arrival of Vasco da Gama in India
    (b) Return of Mahatma Gandhi to India from South Africa
    (c) Address of Swamy Vivekananda in Chicago
    (d) First Fellowship Meeting between Heads of Independent India and China

96. Who amongst the following was honoured with the Jawaharlal Nehru Award for International Understanding given away for the year 2009?

    (a) Wangari Muta Maathai
    (b) Luiz Inacio Lula da Silva
    (c) Olafur Ragnar Grimsson
    (d) Angela Dorothea Merkel

97. Miss Universe 2012 is—

    (a) Riyo mori
    (b) Olivia Culpo
    (c) Lisa Lazarus
    (d) Simaran Kaur Mundii

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98. Jnanapeeth Award 2012 nominee is _____

   (a) Birendra Kumar Bhattacharya
   (b) Gurudayal Singh
   (c) Chandrashekar Kambara
   (d) Ravuri Bharadhwaja

99. Present Prime Minister of Pakistan is _____

   (a) Parvez Musharaff
   (b) Asif Ali Zardari
   (c) Navaz Sharif
   (d) Imran Khan

100.  Justice B.N. Srikrishna Commission of Inquiry was constituted_____

   (a) For investigating the causes of the Bombay Riots.
   (b) For examining Center state relations
   (c) For examining the women's reservations in Parliament
   (d) For investigating the frauds in Share Market

END

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