



# Trinity Entrance Test 2011

## +2 Management or Humanities

Time: 1 hr 30 mins

Full Marks: 100

Welcome to the Trinity Entrance Test 2011!

This Test assesses a student's competency to undertake a +2 Programme in **Management & Humanities**. It contains 100 multiple choice questions – English (40), Mathematics (40), and General Knowledge (20).

Please **FOLLOW** the **DIRECTIONS** below:

1. Write your **Name** and **Exam Entry Card Number** clearly in the space given in the **Answer Sheet**.
2. During the Test, **do not leave your seat** unless it is necessary for which you would have to take the permission.
3. Please maintain **complete silence** in the examination hall.
4. Do **not** use **calculators**.
5. Questions are self-explanatory. Further **clarification** will **not** be entertained.
6. Do **not write** anything on the **Test Paper**. Use scrap paper provided for **rough work**.
7. **Read the questions carefully**. Mark your **choice** on the answer sheet as shown below in the example:

**Example:** A student divided a number by  $\frac{2}{3}$  when he required to multiply it by  $\frac{3}{2}$ .

Calculate the percentage of error in his result.

- A) 100                      B) 0                      C) 66                      D) 33

The answer is '0'; so, on your answer sheet use a **cross mark** for the correct answer as shown below:

A	B	C	D
<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

8. In multiple choice questions, choose the best option marking it carefully. More than one answer to a question or cancellation by over-writing or smudging of answer choices shall entail loss of marks for that question.
9. At the end of the Test, do not leave your seat or the hall until your **test papers** (Question Papers and Answer Sheet) are collected by the Invigilator.

**Mathematics**

1. Ram is fifteenth in queue from the first as well as the last. How many persons are there in the queue?  
A. 15  
B. 29  
C. 30  
D. 21
2. A can do a piece of work in 16 days, B in 10 days. A and B work at it together for 6 days and then C finishes it in 3 days. In how many days could C have done it alone?  
A. 120 days  
B. 130 days  
C. 140 days  
D. 150 days
3. Two cities A and B are 200 km apart. Ram travels by car towards B from A at a speed of 60 km per hour. Shyam starts toward A from B on a motor cycle at a speed of 40 km per hour. After what time will they meet?  
A. 1 hour  
B. 2 hours  
C. 3 hours  
D. 4 hours
4. If  $x + \frac{1}{x} = 2$  then  $x^3 + \frac{1}{x^3} = \dots\dots$   
A. 2  
B. 8  
C. 1  
D. 0
5. A man sells two houses at the rate of Rs. 1.995 lakhs each. On one house he gains 5% and on the other house he loses 5%. His gain or loss percent in the whole transactions is  
A. 0.25% loss  
B. 0.30% gain  
C. 0.1% loss  
D. 0.5% gain
6. The cost price of 15 articles is the same as selling price of 12 articles. The profit percentage in transaction is  
A. 12.5 %  
B. 25%  
C. 75%  
D. 40%
7. Due to a fall of 30% in the price of the television sets there is a rise of 20% in the sales. How will the income of the TV shop be affected?  
A. 16% rise  
B. 16% fall  
C. 15% rise  
D. 15% fall
8. A man buys 100 apples at 50 paisa each and 50 oranges at 60 paisa each. 10% of the apples and oranges are spoiled. The man sells the remaining apples at 70 paisa each and oranges at Rs. 1 each. The profit made as percentage of the cost is  
A. 50%  
B. 35%  
C. 33.3%  
D. 25%
9. If  $5x - 7y = 36$  and  $7x - 5y = 36$ , find the value of  $5x + 5y$ .  
A. -1/5  
B. -5  
C. 0  
D. 5
10. A merchant sells an item at a 20% discount, but still makes a gross profit of 20% of the cost. What percentage of the cost would the gross profit on the item have been if it had been sold without the discount?  
A. 20%  
B. 40%  
C. 50%  
D. 60%
11. The difference in simple and compound interest in a certain sum in two years at 15% per annum is Rs. 144. The sum is  
A. Rs. 6000  
B. Rs. 6200  
C. Rs. 6400  
D. Rs. 6500
12. A sells an article to B at profit of 20% and B sells it to C at a profit of 25%. If C buys it for Rs. 225 what did A pay for it?  
A. Rs. 100  
B. Rs. 125  
C. Rs. 150  
D. Rs. 175
13. A digital watch was set accurately at 8:30 AM and then lost 2 seconds every 5 minutes. What time was indicated on the watch at 6:30 PM of the same day if the watch operated continuously until that time?  
A. 6:26  
B. 6:00  
C. 5:58  
D. 5:56

14. Which one of the words cannot be made from ABUNDANCE?  
 A. DANCE B. BAND  
 C. ANNOUNCE D. NUDE
15. Ram is taller than Ramesh who is shorter than Ratan. Rohan is taller than Rajan but shorter than Ramesh. Ratan is shorter than Ram. Who is the tallest?  
 A. Ram B. Ramesh  
 C. Ratan D. Rohan
16. There are 41 students in a row. One of the students, Ravi stands at 15<sup>th</sup> from the right is  
 A. 16 B. 26  
 C. 27 D. None of them
17. If  $A:B = 3:4$ ,  $B:C = 5:6$  and  $C:D = 2:3$ , then  $A:D$  is  
 A. 1:1 B. 5:9  
 C. 5:12 D. 8:5
18. The average temperature of all the seven days of a week is 30°C for the first three days of the week it is 29°C and for the next three days it is 31°C. The temperature of the last day of the week is  
 A. 28°C B. 29°C  
 C. 30°C D. 31°C
19. By walking at 5 km/hour from her home, Sashi reaches her college 5 minutes late. But by walking at 6 km/hour from her home she reaches her college 5 minutes earlier. The distance of the college from her home is  
 A. 2.5 km B. 3 km  
 C. 4.5 km D. 5 km
20. A person lent a sum of money at 4% simple interest and in 8 years the interest amounts to Rs. 340 less than the sum lent. Find the sum lent.  
 A. Rs. 400 B. Rs. 450  
 C. Rs. 500 D. Rs. 550
21. A retailer purchases an article at the rate of 11 items at Rs. 10 and sells 10 items for Rs. 11. His gain or loss percentage is  
 A. 21% loss B. 21% gain  
 C. 11.5% loss D. 11.5% gain
22. If the average of three numbers is V. If one of the numbers is Z and another is Y, what is the remaining number?  
 A.  $ZY - V$  B.  $Z/V - 3 - Y$   
 C.  $Z/3 - V - Y$  D.  $3V - Z - Y$
23. What simple interest rate will Susan need to secure to make Rs. 2,500 in interest on a Rs.10, 000 principal over 5 years?  
 A. 4% B. 5%  
 C. 6% D. 7%
24. John is traveling to a meeting that is 28 miles away. He needs to be there in 30 minutes. How fast does he need to go to make it to the meeting on time?  
 A. 25 mph B. 37 mph  
 C. 41 mph D. 56 mph
25. A man gets Rs. 9700 after paying the tax of 3 paisa per 1 rupee then what is the income of the man?  
 A. Rs. 9400 B. Rs. 10,000  
 C. Rs. 10,200 D. Rs. 12,500
26. What is z if 2.5% of z equals 75% of 50?  
 A. 10 B. 25  
 C. 500 D. 1500
27. Tom has 7 times as many crayons as Dick and 3 times as many as Harry. If Dick has less than 21 crayons, what is the maximum number of crayons that Tom can have?  
 A. 63 B. 105  
 C. 120 D. 140
28. If 6 is 24% of a number, what is 40% of the same number  
 A. 8 B. 10  
 C. 15 D. 20

29. If the average arithmetic mean of 8, 12, 15, 21,  $x$  and 11 is 17 then what is  $x$ ?  
 A. 3 B. 15  
 C. 17 D. 35
30. Which of the following choices is equivalent to  $5/6$ ?  
 A.  $5/12$  B.  $10/6$   
 C.  $20/30$  D.  $15/18$
31. Find the missing term in the following sequence: 4, 9, 19, \_\_, 79  
 A. 36 B. 37  
 C. 38 D. 39
32. In his pocket, a boy has 3 red marbles, 4 blue marbles, and 4 green marbles. How many will he have to take out of his pocket to ensure that he has taken out at least one of each color?  
 A. 3 B. 7  
 C. 8 D. 9
33. If two planes leave the same airport at 1:00 PM, how many miles apart will they be at 3:00 PM if one travels directly north at 150 mph and the other travels directly west at 200 mph?  
 A. 50 miles B. 100 miles  
 C. 500 miles D. 700 miles
34. Liza worked 22 hours this week and made \$132. If she works 15 hours next week at the same pay rate, how much will she make?  
 A. \$57 B. \$90  
 C. \$104 D. \$112
35. Describe the following sequence in mathematical terms. 144, 72, 36, 18, 9  
 A. Descending arithmetic sequence B. Ascending arithmetic sequence  
 C. Descending geometric sequence D. Ascending geometric sequence
36. There are 12 more apples than oranges in a basket of 36 apples and oranges. How many apples are in the basket?  
 A. 12 B. 15  
 C. 24 D. 36
37. If  $0 < x < 1$ , which of the following sets are in the increasing order?  
 A.  $\sqrt{x}$ ,  $x$ ,  $x^2$  B.  $x^2$ ,  $x$ ,  $\sqrt{x}$   
 C.  $x^2$ ,  $\sqrt{x}$ ,  $x$  D.  $x$ ,  $x^2$ ,  $\sqrt{x}$
38. If  $3^x \times 3^y = 81$ , then the arithmetic mean of  $x$  and  $y$  is  
 A. 3 B. 81  
 C. 2 D.  $81/2$
39. What is the greatest integer  $x$  for which  $-6x - 1 > 12$ ?  
 A. -2 B. 3  
 C. -3 D. 2
40. What is the eighth term of the sequence 1, 4, 9, 15, 25, .....?  
 A. 36 B. 49  
 C. 64 D. 81

### English

Questions given below are incomplete sentences. Beneath each sentence you will see four words or phrases marked A, B, C and D. Choose the word or phrase that best completes the sentence.

41. If today is Friday, \_\_\_\_\_ was Wednesday and \_\_\_\_\_ will be Sunday.  
 A. the day after tomorrow, the other day  
 B. the day before yesterday, the day after tomorrow  
 C. the other day, the day before yesterday  
 D. some time, sometimes.
42. I am used \_\_\_\_\_ early.  
 A. to get up B. to getting up  
 C. to have got up D. to being got up
43. I have to be there in ten minutes. I had better \_\_\_\_\_ now or I'll be late.  
 A. gone B. go  
 C. to go D. been going

44. I am sorry, I have forgotten your name. Can you \_\_\_\_\_ me?  
 A. remember B. resemble  
 C. remind D. regret
45. The antonym of 'adjacent' is \_\_\_\_\_.  
 A. distant B. adjust  
 C. adherent D. detest
46. It's no use \_\_\_\_\_ to persuade me. You won't succeed.  
 A. to try B. trying  
 C. tried D. try
47. The synonym of 'zealous' is \_\_\_\_\_.  
 A. jealous B. genuine  
 C. indifferent D. eager
48. One who studies and treats skin diseases is called a \_\_\_\_\_.  
 A. dermatologist B. neurologist  
 C. cardiologist D. gynecologist
49. How was the exam? How did you \_\_\_\_\_?  
 A. get off B. get up  
 C. get on D. get in
50. John has got the promotion because he is senior \_\_\_\_\_ us.  
 A. than B. than all of  
 C. then D. to
51. Hamlet was reluctant to \_\_\_\_\_ the murder of his father.  
 A. avenge B. revenge  
 C. vengeance D. none
52. Predictable means  
 A. we are not at all sure what will happen B. it is cautious  
 C. it is safe D. we can guess what will happen
53. One of my \_\_\_\_\_ lives in London.  
 A. friend B. friends  
 C. friend's D. friends'
54. \_\_\_\_\_ I had had the book, I would have given it to you.  
 A. Unless B. Although  
 C. If D. Because
55. \_\_\_\_\_ of the rain, they enjoyed themselves.  
 A. Though B. In spite  
 C. Despite D. What
56. Can you turn off \_\_\_\_\_ light, please?  
 A. the B. a  
 C. an D. none
57. I think we can dispense \_\_\_\_\_ the formalities.  
 A. without B. with  
 C. on D. at
58. There is a public telephone \_\_\_\_\_ the corner of the street.  
 A. in B. at  
 C. over D. with
59. The question is not \_\_\_\_\_ for me to answer.  
 A. enough difficult B. difficult enough  
 C. enough difficulty D. difficulty enough

60. She said, "I will marry you tomorrow". The reported speech of this sentence is \_\_\_\_  
 A. She exclaimed that she would marry him tomorrow.  
 B. She claimed that she would marry him the next day.  
 C. She suggested that she would marry him the following day.  
 D. She promised that she would marry him the next day.
61. I did not enjoy the book. It was \_\_\_\_\_ stupid story.  
 A. so  
 B. such  
 C. such a  
 D. none
62. A person who claims to have mental power to predict the future and speak to the dead people.  
 A. psychic  
 B. psychologist  
 C. psychopath  
 D. cynic
63. The passive voice of 'They are going to sell their house'.  
 A. Their house is being sold by them.  
 B. Their house is sold by them.  
 C. Their house is going to be sold by them.  
 D. Their house has been sold by them.
64. The feminine gender of 'fiance' is \_\_\_\_\_.  
 A. fiancés  
 B. fiancée  
 C. fiasco  
 D. financier
65. The conditional clause 'If she were rich, .....?' is completed by  
 A. She would buy that car.  
 B. She will buy the car.  
 C. She was going to buy that car.  
 D. She bought that car.
66. She has a large family \_\_\_\_\_.  
 A. support  
 B. supporting  
 C. supported  
 D. to support
67. The word 'lay' is paired with \_\_\_\_\_ to form a compound noun.  
 A. up  
 B. man  
 C. life  
 D. house
68. The word 'business' has \_\_\_\_\_ syllabus.  
 A. two  
 B. three  
 C. four  
 D. five
69. I was \_\_\_\_\_ my way back.  
 A. to  
 B. on  
 C. in  
 D. of
70. Could you lend me \_\_\_\_\_ books?  
 A. few  
 B. little  
 C. a little  
 D. a few
71. A millennium is a period of \_\_\_\_\_ years.  
 A. ten  
 B. twenty  
 C. hundred  
 D. thousand
72. That is boiled hard is \_\_\_\_\_.  
 A. boiled hard  
 B. hard-boiled  
 C. hardly boiled  
 D. boiling hard

Read the following passage and answer the questions given:

Let no one tell you again that science is only for specialists; it is not. It is no different from history or good talk or reading a novel; some people do it better and some worse; some make a life's work of it; but it is within the reach of everybody. Science is as human as Darwin, and no harder to understand. Its values are the human values: honesty, tolerance, independence, common sense, and singleness of mind. Its achievements are among the great achievements of man.

73. Science is as human as Darwin. It means  
 A. It is like Darwin.  
 B. It is philosophical.  
 C. It is lively and it emphasizes all the human values.  
 D. It is short-lived.

74. **Why does the writer think that science is not meant for specialists?**  
 A. Because we do not feel equal to the new ideas.  
 B. Because science is mysterious and difficult.  
 C. Because we have no faith in the future.  
 D. Because science is useful for everyone.
75. **Science is no different from history or good talk or reading a novel,**  
 A. because it deals with history.  
 B. because it is easy to understand.  
 C. because it entertains people.  
 D. because it is concerned about life and existence.
76. **The author seems to suggest that \_\_\_\_\_.**  
 A. We should use science to dominate human beings.  
 B. We should use science to be powerful.  
 C. We should use science for the humanity.  
 D. We should use science because we are human beings.

*Read the following passage and answer the questions given below:*

Sunlight is the one source of energy which is virtually unlimited, non-polluting and totally free, if we can capture and utilize it effectively. It already provides, of course, all the ecological energy for the biosphere, and since all fossil fuels originate in organic compounds, they also come ultimately from the energy in sunlight. The problem with solar energy lies in the difficulties involved in its capture and conversion to heat or electricity. These have offered technical and economic problems which have prevented, up until now, the widespread use of solar energy. Now, however, the logic of science and economic need are placing more emphasis on the sun as a practical source of energy for domestic and industrial use.

77. **What kind of energy is the writer talking about?**  
 A. He is talking about the energy which is similar to fossil fuels.  
 B. He is talking about solar energy.  
 C. He is talking about such energy which is cheap and non-polluting.  
 D. He is talking about nuclear energy.
78. **Sunlight as the source of energy is \_\_\_\_\_.**  
 A. a mere fiction  
 B. a matter of hypothesis even now.  
 C. no more a fiction.  
 D. destructive
79. **The biosphere, according to the writer, is \_\_\_\_\_.**  
 A. the part of the earth's surface and atmosphere where animals and plants live.  
 B. the part of the sun where the energy is at store.  
 C. the atmosphere above the ozone layer.  
 D. air.
80. **The author seems to suggest that \_\_\_\_\_**  
 A. the logic of science is the necessary part of energy.  
 B. the time is ripe for the mankind to turn to sun for energy.  
 C. the solar energy should be avoided as it is expensive.  
 D. we should avoid solar energy.

### **General Knowledge**

81. **"Bull and bears" is a term associated with**  
 A. Parliamentary affairs  
 B. Bull fights  
 C. Racing  
 D. Stock exchange
82. **A period of low economic activity is known as**  
 A. Boom  
 B. Depression  
 C. Recession  
 D. Recovery
83. **Who was the first general secretary of the United Nations Organization?**  
 A. U Thant  
 B. Ban Ki-mon  
 C. Trygve Lie  
 D. Gladwyn Jebb

84. **What is name of the official soccer ball of the World Cup 2010?**  
 A. Questra  
 B. Jabulani  
 C. Tango Durlast  
 D. Telstar
85. **How many members are there in the constituent assembly of the Republic of Nepal?**  
 A. 205  
 B. 599  
 C. 600  
 D. 601
86. **The headquarter of World Trade Organization is located at**  
 A. Washington D.C.  
 B. New York  
 C. Geneva  
 D. London
87. **Who is the chairman of the National Planning Commission of Nepal?**  
 A. The King  
 B. The Prime minister  
 C. The President  
 D. The Minister of Finance
88. **One tola of gold is equivalent to**  
 A. 10 grams  
 B. 10.54 grams  
 C. 11.664grams  
 D. 12.335 grams
89. **Arthashastra was authored by**  
 A. Vatsayana  
 B. Manu  
 C. Chanakya  
 D. Vishnu Sharma
90. **To which country does the NASDAQ stock exchange belong to?**  
 A. Nepal  
 B. The Netherlands  
 C. USA  
 D. India
91. **The largest and smallest districts of Nepal are**  
 A. Dolpa and Lalitpur  
 B. Kailali and Nuwakot  
 C. Dolpa and Bhaktapur  
 D. Syanja and Pyuthan
92. **The name given to the boarder which separates Pakistan and Afghanistan is**  
 A. Durand line  
 B. Macmillan line  
 C. Mount K2  
 D. Suez canal
93. **What is the minimum age requirement of a person in Nepal to be eligible to vote in the National Election?**  
 A. 16 years  
 B. 19 years  
 C. 18 years  
 D. 21 years
94. **Who is the writer of famous books *Ritubichar*, *Satyasmriti*, and *Lalitya*?**  
 A. Lekh Nath Poudel  
 B. Ramesh Bikal  
 C. Chittadhar Hridaya  
 D. Siddhi Charan Shrestha
95. **Which of the following gives largest revenue to the Government of Nepal?**  
 A. Entertainment tax  
 B. Value added tax  
 C. Property tax  
 D. Customs duty
96. **Which of the following is the first organized industry in Nepal?**  
 A. Biratnagar Jute Mills  
 B. Raghupati Jute Mills  
 C. Juddha Match Factory  
 D. Morang Sugar Mills
97. **Amsterdam is the capital of**  
 A. Denmark  
 B. the Netherlands  
 C. Myanmar  
 D. Belgium
98. **The most populated city in the world is**  
 A. Paris  
 B. London  
 C. Bombay  
 D. Tokyo
99. **The trade name 'Gulf' is related to**  
 A. Computer  
 B. Soft drink  
 C. Sports  
 D. Lube oil
100. **'SPSS' a computer application is mainly used for**  
 A. Business applications  
 B. Word processing  
 C. Statistical data analysis  
 D. Data base management