

[illegible]



*Bogor, October 27-30, 2018*



### Upper Primary School Category

Time : 80 minutes

1. Do not open the booklet until you are told to do so.
2. Remember to write down your team name and your name in the space indicated on every page.
3. There are 10 problems in the Team Contest. Each question is printed on a separate sheet of paper. Each problem is worth 40 points. For Problems in Part A(Qn 1 to 5), only answers are required. Partial credits will not be given. For Problems in Part B(Qn 5 to 8), full solutions are required. Partial credits may be given.
4. The four team members are allowed 10 minutes to discuss and distribute the first 8 problems among themselves. Each student must attempt one problem from Part A and one problem from part B.
5. Each student then has 35 minutes to write the solutions of their allotted problems independently with no further discussion or exchange of problems.
6. The four team members are allowed 35 minutes to solve problem 9 and 10 together. Full solutions are required. Partial credit may be awarded.
7. No calculator or calculating device or electronic devices are allowed.
8. Answer must be in pencil or in blue or black ball point pen.
9. All papers shall be collected at the end of this test.

[illegible]



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**5<sup>th</sup> Challenge for Future Mathematicians**

*Bogor, October 27-30, 2018*



## **Individual Contest**

**Middle Primary School Category**

**Time : 90 minutes**

### **INSTRUCTIONS:**

1. Do not open the booklet until you are told to do so.
2. The contest consists of 20 questions.
3. Attempt as many questions as you can.
4. Neither mathematical tables nor calculators may be used.
5. Write your answers in the answer boxes on the separate answer sheet provided.
6. Working may be shown in the space below each question.
7. Marks are awarded for correct answers only.

# **5<sup>th</sup> Challenge for Future Mathematicians**

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## **Individual Contest**

**Upper Primary School Category**

**Time : 90 minutes**

### **INSTRUCTIONS:**

1. Do not open the booklet until you are told to do so.
2. The contest consists of 20 questions.
3. Attempt as many questions as you can.
4. Neither mathematical tables nor calculators may be used.
5. Write your answers in the answer boxes on the separate answer sheet provided.
6. Working may be shown in the space below each question.
7. Marks are awarded for correct answers only.





## **5<sup>th</sup> Challenge for Future Mathematicians**

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### **Individual Contest**

#### **Junior High School School Category**

**Time : 90 minutes**

#### **INSTRUCTIONS:**

1. Do not open the booklet until you are told to do so.
2. The contest consists of 18 questions. For question 1 to 16, only answers are required. Partial credits will not be given. For Problems 17 to 18, full solutions are required. Partial credits may be given.
3. Attempt as many questions as you can.
4. Neither mathematical tables nor calculators may be used.
5. Write your answers in the answer boxes on the separate answer sheet provided.
6. Working may be shown in the space below each question.
7. Marks are awarded for correct answers only.