



# KARNATAKA ICSE SCHOOLS ASSOCIATION

PREPARATORY EXAMINATION - JANUARY 2020

**Class: X**  
**Duration: 2 ½ hours**

**Subject: Mathematics**

**Max. Marks: 80**  
**Date : 13/01/2020**

## Instructions

*Answers of this Paper must be written on the paper provided separately.*

*You will not be allowed to write during the first 15 minutes.*

*This time is to be spent in reading the question paper.*

*The time given at the head of this Paper is the time allowed for writing the answers.*

*Attempt all questions from Section A and any four questions from Section B.*

*All working, including rough work, must be clearly shown and must be done on the same sheet as the rest of the answer.*

*Omission of essential working will result in loss of marks.*

*The intended marks for questions or parts of questions are given in brackets [ ].*

*Mathematical tables are provided.*

## Section A [ 40 marks ]

### Question 1

- (a) Using remainder and factor theorem, factorise the following polynomial: [3]  
 $x^2 - 19x + 30$
- (b) A well of diameter 3 m is dug 14 m deep. The earth taken out of it has been spread evenly all around it in the shape of a circular ring of width 4 m to form an embankment. Find the height of the embankment. [3]
- (c) In the adjoining figure, ABCD is a parallelogram. E is a point on AB. CE intersects the diagonal BD at G and EF is parallel to BC. If  $AE : EB = 1 : 2$ , find [4]  
(i)  $EF : AD$   
(ii) area of  $\Delta BEF$  : area of  $\Delta ABD$



# Mathematics Preparatory Exam Paper 2014

**M Mosston**



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