MA 214: Introduction to numerical analysis (2021–2022)

Quiz 1 - General information

Reporting time: 7.55 am
Quiz starts at: 8.15 am
Quiz ends at: 9.15 am

• You will need a smart phone and a second device with a camera (laptop / desktop / tablet / second smartphone) to take this test.

• Make sure you have downloaded the SAFE app on your smart phone.

• You will have to record yourself with the second device. Use a screen recorder to record yourself.

• Important: SAFE often has problems with iOS. It is best to use an android phone for the test.

• Your TA in-charge will have sent you a Google Meet link. Join this link with your second device.

• **Attendance:** Take a photo of your identity card and upload it in the device that you will use for the Google meet. When asked for it, you will simply share it with the proctor using the sharing feature of Google meet.

• Students may keep pens, blank sheets of paper (no notebook), a scientific calculator and a water bottle, apart from their secondary device. They should hold up their papers at the start and show that they are blank when asked to by the proctor.

• You are allowed to use scientific non-programmable calculators.

• Keep all your devices sufficiently charged so that a power cut does not hamper your examination.

• **Important:** The questions in the quiz will have some variables which you will compute from your roll number and your tutorial batch number.

• Depending on your tutorial batch number, you will compute two digits, T and U as follows:

If your tut batch number is $10t + u$ where $0 \leqslant t, u \leqslant 9$ then $U = u$ and $T = 2 - t$.

For instance, if your tut batch number is 12 then your $T = 1$ and $U = 2$. On the other hand, if your tut batch number is 5 then your $T = 2$ and $U = 5$.

• We will compute two more digits, V and W, depending on your roll number.

Remove B, D or any other letter from your roll number if it is there. Remove also the first two digits which show the year of your joining.

Take the two smallest "distinct" non-zero digits from the remaining ones. These are your $V < W$. If there is only one non-zero digit then $W = V + 1$ where V is that single non-zero digit.

We list some examples below:

$$22BD70329 \rightsquigarrow 70329 \rightsquigarrow V = 2, W = 3$$
$$220040129 \rightsquigarrow 0040129 \rightsquigarrow V = 1, W = 2$$
$$220070007 \rightsquigarrow 0070007 \rightsquigarrow 7, \ 7 \rightsquigarrow V = 7, W = 8$$

• If SAFE fails then the question paper will be made available in the Google classrooms of your tutorial batches, as an assignment, and you will be expected to submit the answers in the classrooms (as a PDF file) in the same assignment.

• All other instructions to be followed during the examination remain the same as for the other examinations that you have given until now. Contact your proctor in case of any problem.

Good luck!

Shripad M. Garge.
(shripad@iitb.ac.in)