

**DEPARTMENT OF CIVIL ENGINEERING**  
**NATIONAL INSTITUTE OF TECHNOLOGY PATNA**

Date: 09/01/2020

**Routine for Institution of Engineers Candidates in Section B examination.**

SN	Day	Date	Laboratory	Held at Laboratory
1	DAY 1	03/02/2020 (FN)	Test for Bricks: to determine size, absorption, efflorescence and strength of bricks.	Cement Concrete Lab
		03/02/2020 (AN)	Tests for Cement: To determine standard consistency, initial and final setting time, fineness, soundness, and compressive strength.	Cement Concrete Lab
2	DAY 2	04/02/2020 (FN)	Tests for Coarse and Fine Aggregates: To determine particle size distribution, fineness modulus, water absorption, bulk density, specific gravity, and mechanical properties.	Transportation Lab
		04/02/2020 (AN)	Reinforcing Bars: To determine stress-strength curve of reinforcing bars.	Material testing Lab
3	DAY 3	05/02/2020 (FN)	Atterberg Limits Tests: To determine liquid, plastic and shrinkage limits of soil samples using casagrande apparatus of Fall Cone Method.	Geotechnical Lab
		05/02/2020 (AN)	Compaction Test: To determine optimum water content and maximum dry unit weight of soil using the Proctor compaction test.	Geotechnical Lab
4	DAY 4	06/02/2020 (FN)	Measurement of Flow: To measure flow by venturi meter, orifice meter, and bend meter. The aim is to measure the pressure between test section and far stream and relate the pressure difference with the geometry of the meter and discharge.	Water Resources Lab
		06/02/2020 (AN)	Hydraulic Jump: To study about hydraulic jump and its energy dissipating capacity in a small flume.	Water Resources Lab
5	DAY 5	07/02/2020 (FN)	Levelling: To study different types of levels, levelling staff, temporary adjustment of levels, booking and reduction of data by two methods, and practice for fly levelling to establish bench marks.	Surveying Lab
		07/02/2020 (AN)	Theodolite: To study different types of theodolites, temporary adjustments and methods of measuring horizontal and vertical angles, and booking of data.	Surveying Lab

FN – 9:00 to 01:00 PM

AN – 02:00 PM TO 05:00 PM

Copy: Dean

1. Dean(Academic),
2. (HoD, Civil)
3. PI (Website) with request to upload this routine on website of the Institute.
4. Department Notice Board.

*Suman*  
29/1/2020

*Ram Kumar*  
(HOD/CIVIL) 9/1/2020