



# जनपदीय अभियांत्रिकी विभाग/ CIVIL ENGINEERING DEPARTMENT

राष्ट्रीय प्रौद्योगिकी संस्थान पटना/ NATIONAL INSTITUTE OF TECHNOLOGY PATNA

अशोक राजपथ, पटना - 800005, बिहार/ ASHOK RAJPATH, PATNA - 800005, BIHAR

शिक्षा मंत्रालय, भारत सरकार के अधीन एक राष्ट्रीय महत्व का संस्थान/ An Institute of National Importance under Ministry of Education, Govt. of India

Web site: [www.nitp.ac.in](http://www.nitp.ac.in)

Date: 11/11/2020

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

SN	Day	Date	Laboratory	Held at Laboratory
1	DAY 1	23/11/2020 (FN)	<b>Test for Bricks:</b> to determine size, absorption, efflorescence and strength of bricks.	Cement Concrete Lab
		23/11/2020 (AN)	<b>Tests for Cement:</b> To determine standard consistency, initial and final setting time, fineness, soundness, and compressive strength.	Cement Concrete Lab
2	DAY 2	24/11/2020 (FN)	<b>Tests for Coarse and Fine Aggregates:</b> To determine particle size distribution, fineness modulus, water absorption, bulk density, specific gravity, and mechanical properties.	Transportation Lab
		24/11/2020 (AN)	<b>Reinforcing Bars:</b> To determine stress-strength curve of reinforcing bars.	Material testing Lab
3	DAY 3	25/11/2020 (FN)	<b>Atterberg Limits Tests:</b> To determine liquid, plastic and shrinkage limits of soil samples using Casagrande apparatus of Fall Cone Method.	Geotechnical Lab
		25/11/2020 (AN)	<b>Compaction Test:</b> To determine optimum water content and maximum dry unit weight of soil using the Proctor compaction test.	Geotechnical Lab
4	DAY 4	26/11/2020 (FN)	<b>Measurements in Open Channel Flow:</b> To measure discharge of liquids like water, oil, etc, in open channel flow using weirs and notches. The head over the weir or notch is measured.	Water Resources Lab
		26/11/2020 (AN)	<b>Hydraulic Jump:</b> To study about hydraulic jump and its energy dissipating capacity in a small flume.	Water Resources Lab
5	DAY 5	27/11/2020 (FN)	<b>Levelling:</b> 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
		27/11/2020 (AN)	<b>Theodolite:</b> 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

(HOD/CIVIL)

Copy: Dean

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