

EXAM FORMAT AND AIDS PERMITTED FOR THE MAY 2021 NATIONAL TECHNICAL SESSION

**List of Aids May 2021 through August 2021 sitting**

<b>Name of Subject Basic Studies</b>	<b>Format 1,2, or 3</b>	<b>Closed or Open Book</b>	<b>Aids/Instructions to the Candidates</b>
04-BS-1, Mathematics	2	CLOSED	Candidates are allowed to bring <b>ONE</b> aid sheet 8.5" X 11" hand-written on both sides containing notes and formulae
04-BS-2, Probability and Statistics (2hrs)	2	CLOSED	Candidates are allowed to bring <b>ONE</b> aid sheet 8.5" X 11" hand-written on both sides containing notes and formulae. Note; statistical tables of the normal, t, chi-square and F distributions are provided
04-BS-3, Statics and Dynamics	2	CLOSED	Candidates are allowed to bring <b>ONE</b> aid sheet 8.5" X 11" hand-written on both sides containing notes and formulae. The aid sheet must be submitted with the written exam paper.
04-BS-4, Electric Circuits and Power	2	CLOSED	Candidates are allowed to bring <b>ONE</b> aid sheet 8.5" X 11" hand-written on both sides containing notes and formulae.
04-BS-5, Advanced Mathematics	2	CLOSED	Candidates are allowed to bring <b>ONE</b> aid sheet 8.5" X 11" hand-written on both sides containing notes and formulae.
04-BS-6, Mechanics of Materials	2	CLOSED	Candidates are allowed to bring <b>ONE</b> aid sheet 8.5" X 11" hand-written on both sides containing notes and formulae. Note, example problems and solutions to problems are <b>NOT</b> allowed. <b><u>THE AID SHEET MUST BE SUBMITTED WITH THE WRITTEN EXAM.</u></b>
04-BS-7, Mechanics of Fluids	2	CLOSED	NONE
04-BS-8, Digital Logic Circuits	2	CLOSED	Candidates are allowed to bring <b>ONE</b> aid sheet 8.5" X 11" hand-written on both sides containing notes and formulae.
04-BS-9, Basic Electromagnetics	2	CLOSED	Candidates are allowed to bring <b>ONE</b> aid sheet 8.5" X 11" hand-written on both sides containing notes and formulae.
04-BS-10, Thermodynamics	2	CLOSED	Candidates are allowed to bring <b>ONE</b> aid sheet 8.5" X 11" hand-written on both sides containing notes and formulae.
04-BS-11, Properties of Materials	2	CLOSED	NONE
04-BS-12, Organic Chemistry	2	CLOSED	NONE
04-BS-13, Biology	2	CLOSED	Candidates are allowed to bring <b>ONE</b> aid sheet 8.5" X 11" hand-written on both sides containing notes and formulae.
04-BS-14, Geology	2	CLOSED	NONE
04-BS-15, Engineering Graphics and Design Process	1	CLOSED	NONE
04-BS-16, Discrete Mathematics	2	CLOSED	NONE

**Format 1, No Calculators Permitted;**

**Format 2, One of two calculators is permitted - any Casio or Sharp approved model;**

**Format 3, Any non-communicating calculator is permitted.**

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<b>Name of Subject Complementary Studies</b>	<b>Format 1,2, or 3</b>	<b>Closed or Open Book</b>	<b>Aids/Instructions to the Candidates</b>
11-CS-1, Engineering Economics	3	OPEN	Candidates should bring with them compound interest factors tables
11-CS-2, Engineering in Society- Health and Safety	1	CLOSED	NONE
11-CS-3, Sustainability, Engineering and the Environment	2	CLOSED	NONE
11-CS-4, Engineering Management	1	CLOSED	NONE

<b>Name of Subject Agricultural</b>	<b>Format 1,2, or 3</b>	<b>Closed or Open Book</b>	<b>Aids/Instructions to the Candidates</b>
04-Agric-B11, Principles of Waste Management	3	OPEN	NONE

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<b>Name of Subject Biomedical/Biochemical</b>	<b>Format 1,2, or 3</b>	<b>Closed or Open Book</b>	<b>Aids/Instructions to the Candidates</b>
04-Bio-A8, Biophysical Measurements			Not available
04-Bio-B5, Cell and Tissue Engineering	3	OPEN	NONE
04-Bio-B6, Bioinstrumentation	3	OPEN	NONE

<b>Name of Subject Building</b>	<b>Format 1,2, or 3</b>	<b>Closed or Open Book</b>	<b>Aids/Instructions to the Candidates</b>
07-Bld-A1, Elementary Structural Analysis	2	CLOSED	NONE
07-Bld-A2, Elementary Structural Design	2	CLOSED	Handbooks and textbooks are permitted. No notes or sheets are allowed.
07-Bld-A3, Construction Engineering	2	CLOSED	NONE
07-Bld-A4, Building Engineering Systems	2	CLOSED	NONE
07-Bld-A5, Building Science	3	OPEN	NONE
07-Bld-A7, Building Envelope Design	2	CLOSED	NONE
07-Bld-B6, Building Energy Conversion Technologies	2	CLOSED	NONE

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Name of Subject Chemical	Format 1,2, or 3	Closed or Open Book	Aids/Instructions to the Candidates
16-Chem-A1, Process Balances and Chemical Thermodynamics	3	OPEN	This is an open-book exam. One textbook of your choice with notations listed on the margins etc. are permitted for each section/part, but no loose notes are permitted into the exam.
16-Chem-A2, Unit Operations and Separation Processes	3	OPEN	Candidates can bring <b>ONE</b> textbook of their choice. The textbook can have notations listed on the margins but no loose notes are permitted.
16-Chem-A3, Heat and Mass Transfer	3	OPEN	One textbook of choice with notations listed on the margins but no loose notes are permitted.
16-Chem-A4, Chemical Reactor Engineering	3	OPEN	Candidates can bring <b>ONE</b> textbook of their choice. The textbook can have notations listed on the margins but no loose notes are permitted. Candidates should have unit conversion tables and/or mathematical tables such as a CRC handbook.
16-Chem-A5, Chemical Plant Design and Economics	2	CLOSED	Candidates are allowed to bring <b>ONE</b> aid sheet 8.5" X 11" hand-written on both sides containing notes and formulae.
16-Chem-A6, Process Dynamics & Control	3	OPEN	NONE
16-Chem-B2, Environmental Engineering	2	CLOSED	Candidates are allowed to bring <b>ONE</b> aid sheet 8.5" X 11" hand-written on both sides containing notes and formulae. Candidates <b>MUST</b> write the name and model number of their calculator on the inside front cover of the exam book.
16-Chem-B6, Petroleum Refining and Petrochemicals	3	OPEN	NONE
16-Chem-B10, Life Cycle Assessment (LCA)	2	CLOSED	Candidates are allowed to bring <b>ONE</b> aid sheet 8.5" X 11" hand-written on both sides containing notes and formulae.

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Name of Subject Civil	Format 1,2, or 3	Closed or Open Book	Aids/Instructions to the Candidates
16-Civ-A1, Elementary Structural Analysis	2	CLOSED	NONE
16-Civ-A2, Elementary Structural Design	2	CLOSED	Handbooks and textbooks are permitted. <b><u>NO notes or loose sheets are allowed.</u></b> Candidates <b>MUST</b> write the name and model number of their calculator on the inside front cover of the exam book. Note: The solutions for Standards of Steel, Concrete & Timber must come from the latest manual editions.
16-Civ-A3, Elementary Environmental Engineering (National Only)	2	CLOSED	Candidates are allowed to bring <b>ONE</b> aid sheet 8.5" X 11" hand-written on both sides containing notes and formulae.
16-Civ-A3, Municipal and Environmental Engineering	3	OPEN	NONE
16-Civ-A4, Geotechnical Materials and Analysis	2	CLOSE	NONE
16-Civ-A5, Hydraulic Engineering	2	CLOSED	Candidates are allowed to bring <b>ONE</b> aid sheet 8.5" X 11" hand-written on both sides containing notes and formulae.
16-Civ-A6, Highway Design, Construction and Maintenance	2	CLOSED	NONE
16-Civ-B1, Advanced Structural Analysis	2	CLOSED	NONE
16-Civ-B2, Advanced Structural Design	2	CLOSED	Design handbooks and textbooks are permitted. <b><u>NO notes or loose sheets are allowed.</u></b> Candidates <b>MUST</b> write the name and model number of their calculator on the inside front cover of the exam book.
16-Civ-B3, Geotechnical Design	3	OPEN	It is to the candidate's advantage to bring the Canadian Foundation Manual.
16-Civ-B4, Engineering Hydrology	2	CLOSED	Candidates are allowed to bring <b>ONE</b> aid sheet 8.5" X 11" hand-written on both sides containing notes and formulae.
16-Civ-B5, Water Supply & Wastewater Treatment	2	CLOSED	Candidates are allowed to bring <b>ONE</b> aid sheet 8.5" X 11" hand-written on both sides containing notes and formulae.
16-Civ-B7, Transportation Planning and Engineering	2	CLOSED	NONE
16-Civ-B8, Management of Construction	2	CLOSED	NONE
16-Civ-B9, The Finite Element Method	2	CLOSED	Candidates are allowed to bring <b>ONE</b> aid sheet 8.5" X 11" hand-written on both sides containing notes and formulae.
16-Civ-B10, Traffic Engineering	3	OPEN	NONE
16-Civ-B11, Structural Materials	3	OPEN	Candidates can bring <b>ONE</b> textbook of their choice. NO handwritten materials are permitted.

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Name of Subject Computer	Format 1,2, or 3	Closed or Open Book	Aids/Instructions to the Candidates
17-Comp-A1, Electronics	3	OPEN	NONE
17-Comp-A2, Digital Systems Design			Not available
17-Comp-A3, Computer Architecture	3	OPEN	NONE
17-Comp-A4, Program Design and Data Structures	1	CLOSED	NONE
17-Comp-A6, Software Engineering	1	CLOSED	NONE
17-Comp-B10, Distributed Systems	2	CLOSED	NONE

Name of Subject Electrical	Format 1,2, or 3	Closed or Open Book	Aids/Instructions to the Candidates
16-Elec-A1, Circuits	2	CLOSED	NONE
16-Elec-A2, Systems and Control	2	CLOSED	Candidates are allowed to bring <b>ONE</b> aid sheet 8.5" X 11" hand-written on both sides containing notes and formulae. <b><u>The aid sheet must be signed and submitted with the written exam paper.</u></b>
16-Elec-A3, Signals and Communications	2	CLOSED	NONE
16-Elec-A4, Digital Systems and Computers	2	CLOSED	NONE
16-Elec-A5, Electronics	2	CLOSED	NONE
16-Elec-A6, Power Systems and Machines	2	CLOSED	Candidates are allowed to bring <b>ONE</b> aid sheet 8.5" X 11" hand-written on both sides containing notes and formulae. <b><u>No worked out solutions are allowed on this sheet.</u></b>
16-Elec-A7, Electromagnetics	2	CLOSED	Candidates are allowed to bring <b>ONE</b> aid sheet 8.5" X 11" hand-written on both sides containing notes and formulae. <b><u>No worked out solutions are allowed on this sheet.</u></b>

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16-Elec-B1, Digital Signal Processing	2	CLOSED	Candidates are allowed to bring <b>ONE</b> aid sheet 8.5" X 11" hand-written on both sides containing notes and formulae.
16-Elec-B2, Advanced Control Systems	2	OPEN	NONE
16-Elec-B3, Digital Communications Systems	2	CLOSED	NONE
16-Elec-B4, Information Technology Networks	2	CLOSED	NONE
16-Elec-B5, Advanced Electronics	2	CLOSED	NONE
16-Elec-B7, Power Systems Engineering	3	OPEN	NONE
16-Elec-B8, Power Electronics and Drives	2	CLOSED	Candidates are allowed to bring <b>ONE</b> aid sheet 8.5" X 11" hand-written on both sides containing notes and formulae. <b><u>No worked out solutions are allowed on this sheet.</u></b>
16-Elec-B9, Electromagnetic Field, Transmission Lines, Antennas, and Radiation	2	CLOSED	Candidates are allowed to bring <b>ONE</b> aid sheet 8.5" X 11" hand-written on both sides containing notes and formulae.
16-Elec-B10, Electro-Optical Engineering	2	CLOSED	Candidates are allowed to bring <b>ONE</b> aid sheet 8.5" X 11" hand-written on both sides containing notes and formulae.

<b>Name of Subject</b>	<b>Format</b>	<b>Closed or Open Book</b>	<b>Aids/Instructions to the Candidates</b>
<b>Environmental</b>	<b>1,2, or 3</b>		
18-Env-A1, Principles of Environmental Engineering	2	CLOSED	Candidates are allowed to bring <b>ONE</b> aid sheet 8.5" X 11" hand-written on both sides containing notes and formulae.
18-Env-A2, Hydrology and Municipal Hydraulics Engineering	2	CLOSED	Candidates are allowed to bring <b>ONE</b> aid sheet 8.5" X 11" hand-written on both sides containing notes and formulae.
18-Env-A3, Geotechnical and Hydrogeological Engineering	3	OPEN	NONE
18-Env-A4, Water and Wastewater Engineering	2	CLOSED	Candidates are allowed to bring <b>ONE</b> aid sheet 8.5" X 11" hand-written on both sides containing notes and formulae.
18-Env-A6, Solid Waste Engineering and Management	2	CLOSED	Candidates are allowed to bring <b>ONE</b> aid sheet 8.5" X 11" hand-written on both sides containing notes and formulae.

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18-Env-B2, Water Resources	3	OPEN	NONE
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Name of Subject Geological	Format 1,2, or 3	Closed or Open Book	Aids/Instructions to the Candidates
18-Geol-A1, Mineralogy and Petrology			Not Available
18-Geol-A2, Hydrogeology	3	OPEN	NONE
18-Geol-A3, Sedimentation & Stratigraphy	1	CLOSED	NONE
18-Geol-A4, Structural Geology	2	CLOSED	Protractor, drawing compass and ruler are permitted.
18-Geol-A6, Soil Mechanics	2	CLOSED	A compass and ruler are required.

Name of Subject Geomatics	Format 1,2, or 3	Closed or Open Book	Aids/Instructions to the Candidates
18-Geom-A1, Surveying	2	CLOSED	Candidates are allowed to bring <b>ONE</b> aid sheet 8.5" X 11" hand-written on both sides containing notes and formulae.
18-Geom-B1, Digital Terrain Modelling	2	CLOSED	NONE

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Name of Subject Industrial	Format 1,2, or 3	Closed or Open Book	Aids/Instructions to the Candidates
17-Ind-A2, Analysis and Design of Work	2	CLOSED	NONE
17-Ind-A3, Facilities Planning	2	CLOSED	NONE
17-Ind-A4, Production Management	2	CLOSED	NONE
17-Ind-A5, Quality Planning, Control, and Assurance	2	CLOSED	Candidates are allowed to bring <b>ONE</b> aid sheet 8.5" X 11" hand-written on both sides containing notes and formulae.
17-Ind-A6, Systems Simulation	2	CLOSED	Candidates are allowed to bring <b>ONE</b> aid sheet 8.5" X 11" hand-written on both sides containing notes and formulae.
17-Ind-B1, Applied Probability and Statistics	2	CLOSED	Candidates are allowed to bring <b>ONE</b> aid sheet 8.5" X 11" hand-written on both sides containing notes and formulae.
17-Ind-B2, Manufacturing Processes	2	CLOSED	NONE
17-Ind-B5, Ergonomics	3	OPEN	NONE
17-Ind-B10, Workplace Health and Safety	1	CLOSED	NONE

Name of Subject Mechanical	Format 1,2, or 3	Closed or Open Book	Aids/Instructions to the Candidates
16-Mec-A1, Applied Thermodynamics and Heat Transfer	3	OPEN	Candidates are expected to have copies of both a thermodynamics text AND a heat transfer text in order to make use of the information presented in the tables and graphs. Candidates <b>MUST</b> write the name and model number of their calculator on the inside front cover of the exam book.
16-Mec-A2, Kinematics and Dynamics of Machines	3	OPEN	NONE
16-Mec-A3, System Analysis and Control	2	CLOSED	NONE
16-Mec-A4, Design and Manufacture of Machine Elements	3	OPEN	NONE
16-Mec-A5, Electrical and Electronics Engineering	2	CLOSED	NONE
16-Mec-A6, Advanced Fluid Mechanics	2	OPEN	NONE
16-Mec-A7, Advanced Strength of Materials	2	OPEN	NONE

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16-Mec-B1, Advanced Machine Design	3	OPEN	NONE
16-Mec-B2, Environmental Control in Buildings	3	OPEN	Candidates are expected to have copies of both an environmental control book and steam tables. No notes or solved problems permitted.
16-Mec-B3, Energy Conversion and Power Generation	2	CLOSED	Drawing instruments (scale ruler)
16-Mec-B4, Integrated Manufacturing Systems	3	OPEN	NONE
16-Mec-B5, Product Design and Development	2	OPEN	NONE
16-Mec-B6, Fluid Machinery	2	CLOSED	Drawing instruments (scale ruler, protractor and sharp pencil) are required for vector diagrams.
16-Mec-B7, Aero and Space Flight	2	OPEN	NONE
16-Mec-B8, Engineering Materials	2	OPEN	NONE
16-Mec-B9, Advanced Engineering Structures	2	OPEN	NONE
16-Mec-B10, Finite Element Analysis	3	OPEN	NONE
16-Mec-B12, Robot Mechanics	2	CLOSED	Candidates are allowed to bring <b>ONE</b> aid sheet 8.5" X 11" hand-written on both sides containing notes and formulae. No worked out solutions of examples and must be handed in with exam.

<b>Name of Subject Metallurgical</b>	<b>Format 1,2, or 3</b>	<b>Closed or Open Book</b>	<b>Aids/Instructions to the Candidates</b>
10-Met-A7, Corrosion and Oxidation	3	OPEN	NONE
10-Met-B3, Iron and Steelmaking	2	CLOSED	NONE

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Name of Subject Mechatronics	Format 1,2, or 3	Closed or Open Book	Aids/Instructions to the Candidates
16-Mex-A1, System Analysis and Control	2	CLOSED	NONE
16-Mex-A2, Circuits and Electronics	2	CLOSED	NONE
16-Mex-A3, Digital Systems Computers	2	CLOSED	NONE
16-Mex-B3, Advanced Control Systems	2	OPEN	NONE
16-Mex-B5, Robot Mechanics	2	CLOSED	Candidates are allowed to bring <b>ONE</b> aid sheet 8.5" X 11" hand-written on both sides containing notes and formulae.
16-Mex-B8, Product Design and Development	2	OPEN	NONE

Name of Subject Manufacturing	Format 1,2, or 3	Closed or Open Book	Aids/Instructions to the Candidates
08-Mfg-A3, Production Management	2	CLOSED	NONE
08-Mfg-A4, Analysis and Design of Work	2	CLOSED	NONE
08-Mfg-A5, Facilities Planning	2	CLOSED	NONE
08-Mfg-A6, Quality Planning, Control and Assurance	2	CLOSED	Candidates are allowed to bring <b>ONE</b> aid sheet 8.5" X 11" hand-written on both sides containing notes and formulae.
08-Mfg-B3, System Simulation	2	CLOSED	Candidates are allowed to bring <b>ONE</b> aid sheet 8.5" X 11" hand-written on both sides containing notes and formulae.
08-Mfg-B4, Product Design and Development	2	OPEN	NONE
08-Mfg-B6, Metrology	3	OPEN	NONE

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08-Mfg-B8, Robot Mechanics	2	CLOSED	Candidates are allowed to bring <b>ONE</b> aid sheet 8.5" X 11" hand-written on both sides containing notes and formulae. No worked out solutions of examples and must be handed in with exam.
08-Mfg-B10, Tooling, Jigs and Fixture Design	3	OPEN	NONE
08-Mfg-B12, Ergonomics	3	OPEN	NONE

<b>Name of Subject Mining and Mineral Processing</b>	<b>Format 1,2, or 3</b>	<b>Closed or Open Book</b>	<b>Aids/Instructions to the Candidates</b>
18-MMP-A1, General Geology and Exploration	2	CLOSED	NONE
18-MMP-A2, Underground Mining Methods & Design	2	CLOSED	Candidates are allowed to bring <b>ONE</b> aid sheet 8.5" X 11" hand-written on both sides containing notes and formulae.
18-MMP-A4, Mine Valuation and Mineral Resource Estimation	2	CLOSED	Candidates are allowed to bring <b>ONE</b> aid sheet 8.5" X 11" hand-written on both sides containing notes and formulae.
18-MMP-A6, Mining and the Environment	2	CLOSED	Candidates are allowed to bring <b>ONE</b> aid sheet 8.5" X 11" hand-written on both sides containing notes and formulae.

<b>Name of Subject Petroleum</b>	<b>Format 1,2, or 3</b>	<b>Closed or Open Book</b>	<b>Aids/Instructions to the Candidates</b>
17-Pet-A5, Petroleum Production Operation	3	OPEN	NONE
17-Pet-A6, Reservoir Mechanics	3	OPEN	NONE

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Name of Subject Engineering Physics	Format 1,2, or 3	Closed or Open Book	Aids/Instructions to the Candidates
17-Phys-A5-A, Electronic Materials and Devices	2	CLOSED	NONE
17-Phys-A5-B, Analog and Digital Electronic Circuits	3	OPEN	NONE
17-Phys-A6, Solid State Physics	2	CLOSED	NONE
17-Phys-A7, Optics	2	CLOSED	NONE
17-Phys-B5, Systems and Control	2	CLOSED	Candidates are allowed to bring <b>ONE</b> aid sheet 8.5" X 11" hand-written on both sides containing notes and formulae. <b><u>The aid sheet must be signed and submitted with the written exam paper.</u></b>
17-Phys-B6, Applied Thermodynamics and Heat Transfer	3	OPEN	Candidates are expected to have copies of both a thermodynamics text AND a heat transfer text in order to make use of the information presented in the tables and graphs. Candidates <b>MUST</b> write the name and model number of their calculator on the inside front cover of the exam book.

Name of Subject Software	Format 1,2, or 3	Closed or Open Book	Aids/Instructions to the Candidates
19-Soft-A7, Software Development Process	2	CLOSED	Candidates are allowed to bring <b>TWO</b> aid sheets 8.5" X 11" hand-written on both sides containing notes and formulae
19-Soft-B6, Software Project Management	3	OPEN	NONE

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Name of Subject Structural	Format 1,2, or 3	Closed or Open Book	Aids/Instructions to the Candidates
07-Str-A1, Elementary Structural Analysis	2	CLOSED	NONE
07-Str-A2, Elementary Structural Design	2	CLOSED	Handbooks and textbooks are permitted. <b><u>NO notes or loose sheets are allowed.</u></b> Candidates <b>MUST</b> write the name and model number of their calculator on the inside front cover of the exam book. Note: The solutions for Standards of Steel, Concrete & Timber must come from the latest manual editions.
07-Str-A3, Geotechnical Materials and Analysis	2	CLOSED	NONE
07-Str-A4, Advanced Structural Analysis	2	CLOSED	NONE
07-Str-A6-1, The Finite Element Method	2	CLOSED	Candidates are allowed to bring <b>ONE</b> aid sheet 8.5" X 11" hand-written on both sides containing notes and formulae.
07-Str-A6-3, Earthquake Engineering	3	OPEN	NONE
07-Str-B1, Geotechnical Design	3	OPEN	It is to the candidate's advantage to bring the Canadian Foundation Manual.
07-Str-B2, Management of Construction	2	CLOSED	NONE
07-Str-B5, Foundation Engineering	3	OPEN	NONE
07-Str-B11, Hydraulic Engineering	2	CLOSED	Candidates are allowed to bring ONE aid sheet 8.5" X 11" hand-written on both sides containing notes and formulae.

Name of Subject Transportation	Format 1,2, or 3	Closed or Open Book	Aids/Instructions to the Candidates
07-Tra-A2, Highway Design	3	OPEN	NONE
07-Tra-A6, Geotechnical Materials and Analysis	2	CLOSED	NONE

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Name of Subject Water Resources	Format 1,2, or 3	Closed or Open Book	Aids/Instructions to the Candidates
07-Wrse-A2, Engineering Hydrology	2	CLOSED	Candidates are allowed to bring <b>ONE</b> aid sheet 8.5" X 11" hand-written on both sides containing notes and formulae.
07-Wrse-A3, Soil Mechanics & Groundwater	3	OPEN	NONE
07-Wrse-A5, Water Resources Planning & Systems	2	CLOSED	NONE
07-Wrse-B3, Water Supply & Wastewater Treatment	2	CLOSED	Candidates are allowed to bring <b>ONE</b> aid sheet 8.5" X 11" hand-written on both sides containing notes and formulae.
07-Wrse-B11, Principles of Environmental Engineering	2	CLOSED	Candidates are allowed to bring <b>ONE</b> aid sheet 8.5" X 11" hand-written on both sides containing notes and formulae.