



# THE KENYA NATIONAL EXAMINATIONS COUNCIL

KNEC/GEN/TD/PSE/TEC/TT/18

## 2018 OCTOBER/NOVEMBER TECHNICAL EXAMINATIONS TIMETABLE

### 1.0 GENERAL INSTRUCTIONS

- 1.1 The time allowed for each paper is indicated against the name of the paper and **NO EXTRA TIME IS TO BE ALLOWED**. In case of any discrepancy, the time stated on the question paper should be taken as correct. Visually impaired candidates will **NOT** be given extra time other than what is stated on their respective papers. Any time allocated to reading through questions is included in the total time shown, except when special paper instructions indicate otherwise.
- 1.2 All first session examinations will start at 8.00 a.m. The start time for the second session examinations will be as indicated on the timetable
- 1.3 Your attention is drawn to the regulations governing the conduct of candidates on page 23 and 24 of this timetable.
- 1.4 Supervisors **MUST** ensure that candidates have written their names, index numbers and have signed on their answer scripts before they collect the scripts from the candidates.

### 2.0 EXAMINATION PERIOD AND DATES FOR OCTOBER/NOVEMBER 2018

#### 2.1 PRACTICAL & PROJECT PAPERS

DATE	PAPER CODE	PAPER NAME	DURATION
<b>PLANNING, 26th OCTOBER 2018</b>			
<b>ONE DAY ONLY</b>			
<b>PLANNING</b>  <b>26th OCTOBER 2018</b>  <b>ONE DAY ONLY</b>	1. 1402/314	Food and Beverage Production Practical	2 hrs
	2. 1802/104 1819/104	Food and Beverage Production Practical	2 hrs
	3. 1819/203	Housekeeping practical	1 hr
	4. 1819/204	Laundry practical	1 hr
	5. 2402/301 2419/301	Food and Beverage Management Practice	3 hrs
	6. 2406/101	Housekeeping Management Practice	3 hrs
	7. 2406/201	Laundry and Dry Cleaning Practice	3 hrs
	8. 2419/305	Accommodation Management Practice	2 hrs
	9. 2801/105	Housekeeping Practice	1 hr
	10. 2801/106	Laundry Practice	1 hr
	11. 2802/105 2819/105/1	Food and Beverage Production Practical	2 hrs
	12. 2802/205 2819/205	Food and Beverage Production Management Practice	2 hrs
	13. 2802/305 2819/305	Food and Beverage Service and Sales Management	1 ½ hrs
	14. 2819/106	Accommodation Operations Practice	2 hrs
	15. 2819/203	Accommodations Operations Management Practice I (Laundry)	2 hrs
	16. 2819/302	Accommodations Operations Management Practice II (House Keeping)	2 hrs
<b>START OF PRACTICAL PAPERS</b>			
<b>MONDAY 29<sup>TH</sup> OCTOBER, 2018</b>			
	17. 0101/211	Trade Practice	12 hrs
	18. 0103/211	Trade Practice	12 hrs
	19. 0105/211	Trade Practice	12 hrs
	20. 0106/211	Trade Practice	12 hrs
	21. 0202/211	Trade Practice	6 hrs
	22. 0301/211	Trade Practice	8 hrs
	23. 0302/211	Trade Practice	8 hrs
	24. 0304/211	Trade Practice	8 hrs
	25. 0305/211	Trade Practice	8 hrs
	26. 0401/211B	Trade Practice	4 hrs
	27. 0402/211	Trade Practice, Food and Beverage Production	5 hrs
	28. 0402/216	Trade Practice on Food and Beverage Service	3 hrs
	29. 0404/211	Trade Practice	9 hrs
	30. 0405/211	Trade Practice	9 hrs

DATE	PAPER CODE	PAPER NAME	DURATION
<b>START OF PRACTICAL PAPERS</b>  <b>MONDAY 29<sup>TH</sup> OCTOBER 2018</b>	31. 0501/103	Metal Processing Technology Practice Level I	9 hrs
	32. 0501/203	Metal Processing Technology Practice Level II	9 hrs
	33. 0503/103	Motor Vehicle Practice level I	16 hrs
	34. 0503/203	Motor Vehicle Practice Level II	16 hrs
	35. 0504/105	Trade Practice I	6 hrs
	36. 0504/204	Trade Practice II	6 hrs
	37. 05041/105	General Marine Engineering practical (Trade practice I)	12 hrs
	38. 05041/205	Marine Engineering Technology Practical (Trade Practice II)	12 hrs
	39. 0505/103	Refrigeration and Air Conditioning Trade Practice I	6 hrs
	40. 0505/203	Refrigeration and air Conditioning Trade Practice II	6 hrs
	41. 0521/102	Electrical & Electronics Technology Practice Level I	9 hrs
	42. 0521/202	Electrical and Electronics Technology Practice II	8 hrs
	43. 0531/102	Appropriate Carpentry & Joinery Practice Level I	9 hrs
	44. 0531/202	Appropriate Carpentry & Joinery Practice Level II	9 hrs
	45. 0534/102	Building Technology Practice Level I	9 hrs
	46. 0534/202	Building Technology Practice Level II	9 hrs
	47. 0541/102	Fashion Design & Garment Making Practice Level I	7 hrs
	48. 0541/202	Fashion Design & Garment Making Practice Level II	7 hrs
	49. 0602/203	ICT Trade Practice Level II	6 hrs
	50. 0901/103	Hair Dressing and Beauty Therapy Practice Level I	6 hrs
	51. 0901/203	Hair Dressing and Beauty Therapy Practice Level II	6 hrs
	52. 0902/103	Food Processing Technology Practice Level I	6 hrs
	53. 0902/203	Food Processing Technology Practice Level II	6 hrs
	54. 0903/103	Leather Technology Practice Level I	12 hrs
	55. 0903/203	Leather Technology Practice Level II	12 hrs
	56. 0904/103	Agribusiness Practice Level I	9 hrs
	57. 0904/203	Agribusiness Practice Level II	9 hrs
	58. 0920/102	Information Communications Technology Practice Level I	6 hrs
	59. 1102/315	Trade Practice	25 Hrs
	60. 1103/315	Trade Practice	6 Hrs
	61. 1105/315	Trade Practice	6 Hrs
	62. 1106/315	Trade Practice	25 Hrs
	63. 1202/314	Electrical Installation Practice	8 Hrs
	64. 1204/313	Electronic Instruments & Fault Diag. (Practice)	8 Hrs
	65. 1301/315	Carpentry & Joinery Craft Practice	9 Hrs
	66. 1304/315	Masonry Craft Practice	9 Hrs
	67. 1305/315	Plumbing Craft Practice	9 Hrs
	68. 1308/315	Land Surveying Craft Practice	6 Hrs
	69. 1309/315	Road Construction Craft Practice	9 Hrs
	70. 1401/311	Garment Making Practical	7 Hrs
	71. 1402/314	Food & Beverage Production Practical	6 Hrs
	72. 1402/315	Food & Beverage Service Practical	3 Hrs
	73. 1403/315	Food Processing & Preservation Practical	6 Hrs
	74. 1404/315	Trade Practice	6 Hrs
	75. 1406/311	Housekeeping Practical	4 Hrs
	76. 1406/312	Laundry Practical	4 Hrs
	77. 1409/315	Fisheries Technology Trade Practice	6 Hrs
	78. 1501/206	Mechanical Engineering Trade Practice	25 hrs
	79. 1503/106	Motor Vehicle Technology Trade Practice I	6 hrs
	80. 1503/206	Motor Vehicle Technology Trade Practice II	6 hrs
	81. 1504/106	Trade Practice I	12 hrs
	82. 1504/206	Trade Practice II	12 hrs
	83. 15041/106	Navigation Safety and Boat Handling Practice (Trade Practice)	6 hrs
	84. 1505/106	Trade Practice I	12hrs
	85. 1505/206	Trade Practice II	12 hrs

DATE		PAPER CODE	PAPER NAME	DURATION
LAST DAY OF PRACTICAL PAPERS  FRIDAY 9 <sup>TH</sup> NOVEMBER 2018	86.	15051/106	General Marine Engineering Practical (Trade Practice)	12 hrs
	87.	1507/114 1907/104	Bread & Confectionery Making I Practice	6 hrs
	88.	1507/213 1907/204	Bread & Confectionery Making II Practice	6 hrs
	89.	1508/106	Welding and Fabrication Trade Practice I	18 hrs
	90.	1508/206	Welding and Fabrication Trade Practice II	18 hrs
	91.	1521/104 1601/106 1602/106	Trade Practice I	8 hrs
	92.	1521/206 1601/206	Trade Practice II	8 hrs
	93.	1522/206 1602/206	Telecom Systems and Fault Diagnosis	12 hrs
	94.	1704/106	Building Construction Practice	15 hrs
	95.	1704/205	Building Construction Practice	18 hrs
	96.	1801/105	Fabric Colouration Practical	4 hrs
	97.	1801/203	Garment Making Practical (For Women)	7 hrs
	98.	1801/204	Garment Making Practical (For Men)	7 hrs
	99.	1801/205	Batik and Embroidery Practical	4 hrs
	100.	1802/104 1819/104	Food and Beverage Production Practical	6 hrs
	101.	1802/204	Food and Beverage Service and Sales Practical	3 hrs
	102.	1819/106	Food & Beverage Service Practical	3 hrs
	103.	1819/203	House Keeping Practical	5 hrs
	104.	1819/204	Laundry Practical	5 hrs
	105.	1903/106	Food Processing and Preservation I Practical	6 hrs
	106.	1903/205	Food Processing and Preservation II Practical	6 hrs
	107.	2401/302	Garment Cutting and Making Practical	6 hrs
	108.	2402/301 2419/301	Food & Beverage Management Practice	6 hrs
	109.	2406/101	House Keeping Management Practice	5 hrs
	110.	2406/201	Laundry and Dry Cleaning Practice	5 hrs
	111.	2419/305	Accommodation Management Practice	4 hrs
	112.	2420/201A	Bread Making Practice II	8 hrs
	113.	2420/201B	Flour & Confectionery Practice II	6 hrs
	114.	2420/301	Bread Making & Flour Confectionery Practice III	12 hrs
	115.	25041/106	Navigation safety and ship maintenance practical	12 hrs
	116.	2801/105	Housekeeping Practice	4 hrs
	117.	2801/106	Laundry Practice	4 hrs
	118.	2802/105 2819/105/1	Food and Beverage Production Practical	6 hrs
	119.	2802/106 2819/105/2	Food and Beverage Service Practical	6 hrs
	120.	2802/205 2819/205	Food Production Management Practice	5 hrs
	121.	2802/305 2819/305	Food and Beverage Service and Sales Management Practice	6 hrs
	122.	2803/105	Clothing Construction I Practical	6 hrs
	123.	2803/205	Clothing Construction II Practical	6 hrs
	124.	2803/305	Clothing Construction III Practical	6 hrs
	125.	2819/106	Accommodation Operations Practice	7 hrs
	126.	2819/203	Accommodation Operations Management I Practice (Laundry)	4 hrs
	127.	2819/302	Accommodation Operations Management II Practice (House Keeping)	4 hrs
	128.	2830/105	Spinning Machinery and Maintenance Practical	6 hrs
	129.	2830/205	Weaving and Knitting Machinery practical	6 hrs
	130.	2830/305	Quality Control, Analysis and Testing Practical	6 hrs
	131.	2913/206	Food Processing I Practical	6 hrs
	132.	2920/105	Baking I Practice (Bread)	6 hrs
	133.	2920/106	Baking I Practice (Confectionery)	6 hrs
	134.	2920/204	Baking II Practice (Bread)	6 hrs

	DATE		PAPER CODE	PAPER NAME	DURATION
		135.	2920/205	Baking II Practice (Confectionery)	6 hrs
		136.	2920/305	Baking III Practice (Bread)	8 hrs
		137.	2920/306	Baking III Practice (Confectionery)	8 hrs

## WRITTEN PAPERS

DATE		PAPER CODE	PAPER NAME	DURATION
<b>8.00 A.M. DAY 1 MONDAY 12<sup>th</sup> NOVEMBER, 2018</b>				
<b>1<sup>ST</sup> MORNING SESSION</b>				
<b>MONDAY 12<sup>th</sup> NOVEMBER 2018</b>	1.	0504/101	Entrepreneurship and Communication Technology	2½ hrs
	2.	05041/101	Entrepreneurship and Communication Technology	2½ hrs
	3.	05041/201	Communications and Life Skills	2½ hrs
	4.	1314/101	Water Resources I	3 hrs
	5.	1501/101 1503/101 1508/101 1601/101 1602/101 1704/101	ICT and Entrepreneurship	3 hrs
	6.	1501/201 1503/201 1508/201 1521/201 1522/201 1601/201 1602/201 1704/201	Communication Skills	3 hrs
	7.	1504/101	Entrepreneurship & Communication Technology	3 hrs
	8.	1504/201	Ship Construction & Stability	3 hrs
	9.	15041/101	Entrepreneurship and Communication Technology	3 hrs
	10.	15041/201	Communication skills and Fundamentals of Management	3 hrs
	11.	1505/101	Entrepreneurship & Communication Technology	3 hrs
	12.	1505/201	Marine Engineering & Management	3 hrs
	13.	15051/101	Entrepreneurship and Communication Technology	3 hrs
	14.	15051/201	Communication skills and Fundamentals of Maritime Management	3 hrs
	15.	1507/113 1907/101 1801/101 1802/101 1803/101 1804/101 1805/101 1819/101 1901/101 1903/101 1904/101 1905/101 1908/101	ICT, Mathematics and Entrepreneurship	3 hrs

DATE		PAPER CODE	PAPER NAME	DURATION
	16.	1507/212A 1801/201 1802/201 1803/201 1804/201 1805/201 1901/201 1903/201 1904/201 1905/201 1907/201 1908/201	Communications Skills	3 hrs
	17.	1521/101 1522/101	ICT Technical Drawing and Entrepreneurship	3 hrs
<b>11.30 A.M DAY 1 MONDAY 12<sup>th</sup> NOVEMBER, 2018</b> <b>2<sup>nd</sup> MORNING SESSION</b>				
<b>MONDAY</b> <b>12<sup>th</sup></b> <b>NOVEMBER</b> <b>2018</b>  <b>2<sup>nd</sup> MORNING</b> <b>SESSION</b>  <b>11.30 A.M.</b>  <b>DAY 1</b>	18.	0101/213	Trade Theory	2½ hrs
	19.	0103/213	Trade Theory	2½ hrs
	20.	0105/213	Trade Theory	2½ hrs
	21.	0106/213	Trade Theory	2½ hrs
	22.	0202/213	Trade Theory	2½ hrs
	23.	0301/213	Trade Theory	2½ hrs
	24.	0302/213	Trade Theory	2½ hrs
	25.	0304/213	Trade Theory	2½ hrs
	26.	0305/213	Trade Theory	2½ hrs
	27.	0401/213	Trade Theory	2½ hrs
	28.	0402/213	Trade Theory	2½ hrs
	29.	0404/213	Trade Theory	2½ hrs
	30.	0405/213	Trade Theory	2½ hrs
	31.	1080/211	Mathematics	3 hrs
	32.	1102/311 1103/311 1105/311 1106/311	Mathematics & Engineering Science	3 hrs
	33.	1202/311	Mathematics	3 hrs
	34.	1204/311	Mathematics	3 hrs
	35.	1301/311 1304/311 1305/311 1309/311	Mathematics	3 hrs
	36.	1308/311	Mathematics	3 hrs
	37.	1402/311	Food & Beverage Production Theory	3 hrs
	38.	1403/311	Food Engineering	3 hrs
	39.	1404/311	Principles of Leather Manufacture	3 hrs
	40.	1405/311	Crop Production	3 hrs
	41.	1408/311	Laboratory Practice	3 hrs
	42.	1409/311	Fishing Technology	3 hrs
	43.	1410/201	Social Development Theory Methods, Policy & Admin.	3 hrs
	44.	1411/311	Introduction to Printing Technology	3 hrs
	45.	1412/311	Immunology & Medical Microbiology	3 hrs
	46.	2080/201 2081/201 2082/201 2083/201	Mathematics	3 hrs
	47.	2401/301	Pattern Drafting & Grading Practical	4 hrs
	48.	2425/101	Principles of Crop Production I & Soil Science	3 hrs
	49.	2425/201	Principles of Crop Production II & Soil Fertility & Plant Nutrition	3 hrs
	50.	2425/301	Crop Production III	3 hrs
	51.	2426/101 2427/101A	Nutrition, Community Health & Diet Therapy I Practice	3 hrs
	52.	2426/201 2427/201A	Nutrition & Diet Therapy II Practice	3 hrs
	53.	2426/301 2427/301	Diet Therapy III Practice & Theory	3 hrs

DATE		PAPER CODE	PAPER NAME	DURATION
	54.	3084/201	Soil Mechanics & Foundation Engineering	3 hrs
	55.	3301/214	Plane Surveying	3 hrs
	56.	3302/214	Image Processing & Interpretation	3 hrs
	57.	3303/214	Computer Assisted Cartography	3 hrs
<b>8.00 A.M. DAY 2 TUESDAY 13<sup>th</sup> NOVEMBER' 2018</b>				
<b>1<sup>st</sup> MORNING SESSION</b>				
<b>TUESDAY 13<sup>th</sup> NOVEMBER 2018  1<sup>st</sup> MORNING SESSION  8.00 A.M.  DAY 2</b>	58.	2301/303 2302/303	Structures	3 hrs
	59.	2303/303	Hydrological Processes	3 hrs
	60.	2304/303	Hydrogeology	3 hrs
	61.	2305/303 2307/303 2308/303	Structures	3 hrs
	62.	2311/303 2312/303	Photogrammetry and Remote Sensing	3 hrs 3 hrs
	63.	2313/303	Cartography, Photogrammetry & Remote Sensing	3 hrs
	64.	2402/302 2419/302	Food & Beverage Production Theory	3 hrs
	65.	2403/303	Food Analysis	3 hrs
	66.	2406/302	Communication Skills	3 hrs
	67.	2416/301 2417/301 2418/301	Art Studio Organization & Management	3 hrs
	68.	2422/301 2423/301 2424/301	Industrial Organization and Management	3 hrs
	69.	2501/101 2502/101 2503/101 2508/101 2509/101 2601/101 2602/101 2603/101 2705/101 2707/101 2709/101 2710/101	ICT, Communication skills and Entrepreneurship	3 hrs
	70.	2501/201 2502/201 2503/201 2508/201 2509/201	Industrial Organisation and Management	3 hrs
	71.	2501/301 2502/301 2503/301 2508/301 2509/301	Computer Aided Drawing	3 hrs
	72.	2504/101	Entrepreneurship and Communication Technology	3 hrs
	73.	25041/101	Entrepreneurship and Communication Technology	3 hrs
	74.	2505/101	Entrepreneurship and Communication Skills	3 hrs
	75.	25051/101	Entrepreneurship and Communication Technology	3 hrs
	76.	2506/101 2507/101	Entrepreneurship & Communication Technology	3 hrs
	77.	2521/101	ICT, Entrepreneurship, Life and Communication Skills	3 hrs

DATE		PAPER CODE	PAPER NAME	DURATION
	78.	2525/101 2528/101 2802/101 2803/101 2805/101 2819/101 2830/101 2901/101 2902-09/101 2910/101 2913/101 2914/101 2915/101 2916/101 2920/101 2921/101 2922/101	ICT, Communication Skills and Entrepreneurship	3 hrs
	79.	2914/101 2915/101	ICT, Entrepreneurship, Life and Communication Skills	3 hrs
<b>11.30 A.M. DAY 2, 2<sup>nd</sup> MORNING SESSION TUESDAY 13<sup>th</sup> NOVEMBER 2018</b>				
<b>TUESDAY 13<sup>th</sup> NOVEMBER 2018  2<sup>nd</sup> MORNING SESSION  11.30 A.M.  DAY 2</b>	80.	2205/301	Systems analysis & Design	3 hrs
	81.	2207/302	Telecommunication Principles	3 hrs
	82.	2404/301	Taxonomy, Ecology, Soil-Study Herbarium, Aquarium and Vivarium	3 hrs
	83.	2407/301	Parasitology & Histological Techn.	3 hrs
	84.	2411/301	Physical Chemistry	3 hrs
	85.	2428/101	Social Work, Theory Practice & Community Development	3 hrs
	86.	2428/201	Resource Mobilization, Fund Raising & Project Management	3 hrs
	87.	2428/301	Social Psychology & Human Development	3 hrs
	88.	2428/304	Transformation & Social Marketing	3 hrs
	89.	2429/301	Social and Administrative Pharmacy	3 hrs
	90.	2504/201	Chart Work Practices	3 hrs
	91.	2504/302	Ship Stability and Handling	3 hrs
	92.	25041/201	Chart work	3 hrs
	93.	25041/302	Marine Technology	3 hrs
	94.	2505/201	Ship Construction & Naval Architecture II	3 hrs
	95.	2505/301	Marine Organisation and Management	3 hrs
	96.	25051/201	Ship Stability	3 hrs
	97.	25051/301	Marine Organisation and Management	3 hrs
	98.	2506/201	Aircraft Propeller Systems	3 hrs
	99.	2506/301 2507/301	Industrial Organisation and Management	3 hrs
	100.	2507/201	Aircraft Instruments and Measurement Systems	3 hrs
	101.	2521/202	Industrial Control Systems	3 hrs
	102.	2521/301 2601/301 2602/301 2603/301	Industrial management and Engineering Contracts	3 hrs
	103.	2528/201 2922/201	Earth Science and Environmental Information Systems	3 hrs
	104.	2528/301 2922/301	Atmospheric Science	3 hrs
	105.	2601/201 2602/201 2603/201	Control Systems and Programmable Logic Controllers	3 hrs
	106.	2705/204 2707/204	Measurement of Building and Civil Engineering Works, Estimating and Costing I	3 hrs
	107.	2709/205	Architectural Landscaping, Graphic design I Architectural Technology	4 hrs
	108.	2710/205	History of Architecture	3 hrs
	109.	2710/305	Environmental Planning and Management	3 hrs
	110.	2802/201	Hospitality Accounting and Law	3 hrs
	111.	2802/301 2920/301	Human Relations	3 hrs
	112.	2803/201	Industrial Organization Management I & Quality Control I	3 hrs



DATE		PAPER CODE	PAPER NAME	DURATION	
	113.	2803/301	Industrial Organization Management II & Quality Control II	3 hrs	
	114.	2805/201	Legal Instruments for Child Protection	3 hrs	
	115.	2805/303	Resource Mobilization and Project Management	3 hrs	
	116.	2830/201	Weaving and Knitting Machinery practical	3 hrs	
	117.	2830/301	Textile Preparation and Finishing Processes	3 hrs	
	118.	2901/202	Research methods	3 hrs	
	119.	2901/302	Project Management	3 hrs	
	120.	2910/202	Crop enterprise management II	3 hrs	
	121.	2910/301	Crop enterprise management III	3 hrs	
	122.	2913/201	Food Chemistry I and Food Microbiology I	3 hrs	
	123.	3402/201	Trends and Issues in Education and Training	3 hrs	
8.00 A.M. DAY 3, WEDNESDAY, 14 <sup>th</sup> NOVEMBER 2018 1 <sup>ST</sup> MORNING SESSION					
WEDNESDAY  14 <sup>th</sup> NOVEMBER 2018  1 <sup>ST</sup> MORNING SESSION  8.00 A.M.  DAY 3	124.	0101/214 0103/214 0105/214 0106/214 0202/214 0301/214 0302/214 0304/214 0305/214 0401/214 0404/214 0405/214	Applied Geometry	3 hrs	
		125.	0504/102	Technical Drawing & Engineering Science	2 ½ hrs
		126.	0504/202	Technical Drawing & Engineering Science	2 ½ hrs
		127.	05041/102	Mathematics I and Applied Science I	2 ½ hrs
		128.	05041/202	Mathematics II and Applied Science II	2 ½ hrs
		129.	1080/213	Strength & Properties of Materials	3 hrs
	130.	1102/312 1103/312 1105/312 1106/312	Technical Drawing	3 hrs	
		131.	1202/315	Electrical Maintenance & Fault Diagnosis	3 hrs
		132.	1204/312	Electronic Instruments & Fault Diagnosis (Theory)	3 hrs
		133.	1301/312 1304/312 1305/312	Technical Drawing	3 hrs
	134.	1308/312	Survey Drawing	3 hrs	
	135.	1309/312	Soil Mechanics & Engineering Materials	3 hrs	
	136.	1314/102	Water and Waste Water I	3 hrs	
	137.	1501/104 1508/104	Technical Drawing I	3 hrs	
		138.	1501/204 1503/204 1508/204	Technical Drawing II	3 hrs
	139.	1503/104	Technical Drawing I	3 hrs	
	140.	1504/104	Cargo Work	3 hrs	
	141.	15041/104	Seamanship	3 hrs	
	142.	1505/104	Technical Drawing & Workshop Technology	3 hrs	
	143.	1505/204	Workshop Technology	3 hrs	
	144.	15051/104	Marine Engineering Knowledge I	3 hrs	
	145.	15051/204	Marine Engineering Knowledge II	3 hrs	
	146.	1507/112 1907/102 1802/102 1819/102	Food Science & Nutrition	3hrs	
		147.	1507/212B 1907/202	Baking Control	3 hrs
	148.	1521/102 1522/102	Mathematics & Trade Science I	3 hrs	



DATE		PAPER CODE	PAPER NAME	DURATION
	149.	1521/204 1601/204	Micro-Electronics, Electrical Principles II, Electrical Maintenance And Fault Diagnosis	3 hrs
	150.	1522/204 1602/204	Micro Electronics, Electrical Principles and Fault Diagnosis	3 hrs
	151.	1601/102 1602/102	Applied Science, Electrical Principles I and Electronics	3 hrs
	152.	1801/102	Art, Fashion Design & Sketching and Pattern Drafting I	4hrs
	153.	1801/202	Garment Cutting and Making Theory, Pattern Drafting II	4 hrs
	154.	1802/202	Food and Beverage Control and Catering Premises & Equip	3 hrs
	155.	1901/102	Earth and Physical Sciences	3 hrs
	156.	1901/202	Exploration Geophysics & Seismic Techniques	3 hrs
	157.	1903/102	Applied Science and Laboratory Practice	3 hrs
	158.	1903/202	Food Chemistry and Food Microbiology	3 hrs
	159.	1904/102	Principles of Laboratory & Workshop Practice I	3 hrs
	160.	1904/202	Principles Laboratory & Workshop Practice II	3 hrs
	161.	1905/102	Applied Physical Sciences, Applied Biological Sciences, Anatomy and Physiology	3 hrs
	162.	1905/202	Community Diagnosis & Mobilization, Introduction to Nutrition Surveillance and Nutrition in Emergency	3 hrs
	163.	2209/201	System Analysis and Design	3 hrs
	164.	2209/301	Quantitative Methods	3 hrs
	165.	2902/303	Personal Development, Ethical and Legal Issues	3 hrs
	166.	2902-09/105	Personal development I and Life skills	3 hrs
	167.	2902-09/202	Group Counselling	3 hrs
	168.	2903/303	Personal Development, Professional, Ethical and Legal Issues	3 hrs
	169.	2904/303	Personal and Professional Development, Ethical and Legal Issues	3 hrs
	170.	2905/303	Personal Development and Professional Issues	3 hrs
	171.	2906/303	Personal Development, Family Counselling and Effective Parenting.	3 hrs
	172.	2907/303	Personal and Professional Development	3 hrs
	173.	2908/303	Advocacy For Persons With Special Needs and Disabilities	3 hrs
	174.	2909/303	Personal Development and Spiritual Formation	3 hrs
<b>11.30 A.M. DAY 3 WEDNESDAY 14<sup>th</sup> NOVEMBER, 2018</b>				
<b>2<sup>ND</sup> MORNING SESSION</b>				
<b>WEDNESDAY</b>				
<b>14<sup>th</sup> NOVEMBER 2018</b>				
<b>2<sup>ND</sup> MORNING SESSION</b>				
<b>11.30 A.M.</b>				
<b>DAY 3</b>				
	175.	2101/301 2102/301 2103/301 2104/301 2105/301 2106/301 2107/301 2108/301	Mathematics	3 hrs
	176.	2201/301 2203/301 2204/301 2206/301	Mathematics	3 hrs
	177.	2207/301	Mathematics	3 hrs
	178.	2208/301	Mathematics	3 hrs
	179.	2209/101	Introduction to Computers & Principles of Operating Systems	3 hrs
	180.	2413/301	Mathematics	3 hrs
	181.	2429/304B	Pharmaceutical Chemistry Practical	4 hrs
	182.	2501/103 2502/103 2503/103 2508/103 2509/103	Engineering Mathematics I	3 hrs
	183.	2501/203 2502/203 2503/203 2508/203 2509/203	Engineering Mathematics II	3 hrs

DATE		PAPER CODE	PAPER NAME	DURATION
	184.	2501/303 2502/303 2503/303 2508/303 2509/303	Engineering Mathematics III	3 hrs
	185.	2504/103 2505/103	Mathematics I & Applied Science	3 hrs
	186.	2504/203 2505/203	Engineering Mathematics I	3 hrs
	187.	2504/303	Ship Power Plant	3 hrs
	188.	25041/103 25051/103	Mathematics I and Applied science	3 hrs
	189.	25041/203 25051/203	Engineering Mathematics II	3 hrs
	190.	25041/303	Ship board operations and marine environment	3 hrs
	191.	2505/303	Engineering Mathematics II	3 hrs
	192.	25051/303	Engineering Mathematics III	3 hrs
	193.	2506/103 2507/103	Engineering Mathematics I & Engineering Science I	3 hrs
	194.	2506/203 2507/203	Engineering Mathematics II	3 hrs
	195.	2506/303 2507/303	Engineering Mathematics III	3 hrs
	196.	2525/102 2910/102 2921/102	Applied Science I	3 hrs
	197.	2525/201 2921/201	Applied Science II	3 hrs
	198.	2525/305 2921/305	Natural Resource Management	3 hrs
	199.	2528/102 2922/102	Environmental Chemistry & Applied Science	3 hrs
	200.	2528/202 2922/202	Environmental Pollution Control, Health and Safety	3 hrs
	201.	2528/302 2922/302	Environmental waste Management EIA and Environmental Law	3 hrs
	202.	2830/102	Mathematics I, Physics and Technical Drawing	3 hrs
	203.	2830/202	Mathematics II	3 hrs
	204.	2830/302	Dyeing and Printing technology	3 hrs
	205.	2901/102	Applied Mathematics and Economics	3 hrs
	206.	2901/201	Applied Mathematics	3 hrs
	207.	2901/301	Financial Accounting	3 hrs
	208.	2910/201	Applied Science II	3 hrs
	209.	2910/302	Agricultural Biochemistry and Agro-processing & value addition	3 hrs
	210.	2913/102	Mathematics and Applied Science	3 hrs
	211.	2913/202	Food Analysis and Quality Assurance	3 hrs
	212.	2914/102 2915/102	Mathematics and Applied Science	3 hrs
	213.	3402/101	Principles and Techniques of Education Management	3 hrs
	214.	4080/203	Organic Chemistry	3 hrs
	215.	4082/203	Pharmacology & Toxicology I	3 hrs
	216.	4089/203	Specific Products Technology	3 hrs
<b>8.30 A.M. DAY 4 THURSDAY 15<sup>th</sup> NOVEMBER, 2018</b> <b>1<sup>ST</sup> MORNING SESSION</b>				
<b>THURSDAY</b>	217.	2080/203 2081/203 2082/203 2083/203	Electrical Measurements	3 hrs
	218.	2301/301 2302/301 2304/301	Mathematics	3 hrs

DATE		PAPER CODE	PAPER NAME	DURATION
<b>15<sup>th</sup> NOVEMBER 2018</b> <b>1<sup>ST</sup> MORNING SESSION</b> <b>8.30 A.M.</b> <b>DAY 4</b>	219.	2305/301 2306/301 2307/301 2308/301 2309/301	Mathematics	3 hrs
	220.	2310/301 2311/301 2312/301 2313/301	Mathematics	3 hrs
	221.	2405/301	Mathematics	3 hrs
	222.	2416/306	Publication Design	3 hrs
	223.	2417/306	Painting Art	3 hrs
	224.	2426/102 2427/101B	Nutrition, Community Health & Diet Therapy I Theory	3 hrs
	225.	2426/202 2427/201B	Nutrition & Diet Therapy II Theory	3 hrs
	226.	2521/102 2601/103 2602/103 2603/103	Engineering Mathematics I	3 hrs
	227.	2521/201 2601/203 2602/203 2603/203	Engineering Mathematics II	3 hrs
	228.	2521/303 2601/303 2602/303 2603/303	Engineering Mathematics III	3 hrs
	229.	2710/106	Architectural Communication and Technical Drawing	3 hrs
	230.	2710/206	Architectural Design and Landscaping	4 hrs
	231.	2802/304 2819/304	Food and Beverage Service and Sales Management Theory	3 hrs
	232.	2803/104	Pattern Construction I Practical	4 hrs
	233.	2803/204	Pattern Construction II and Grading techniques I Practical	4 hrs
	234.	2803/304	Pattern Construction III and Grading techniques II Practical	4 hrs
	235.	2805/104	Child Health Care and Nutrition	3 hrs
	236.	2805/205	Community Development in Child care and Protection	3 hrs
	237.	2916/102	Mathematics and Physical Science	3 hrs
	238.	2916/202	Diet Therapy II and Nutrition in the Lifespan	3 hrs
	239.	2916/302	Diet Therapy III and Nutrition Education and Counselling	3 hrs
	240.	3301/211 3302/211 3303/211	Mathematics	3 hrs
<b>11.30 A.M. DAY 4 THURSDAY 15<sup>th</sup> NOVEMBER, 2018</b> <b>2<sup>ND</sup> MORNING SESSION</b>				
<b>THURSDAY</b> <b>15<sup>th</sup> NOVEMBER 2018</b> <b>2<sup>ND</sup> MORNING SESSION</b> <b>11.30 A.M.</b> <b>DAY 4</b>	241.	1507/111 1907/103	Baking & Confectionary Making I Theory	3 hrs
	242.	1507/211 1907/203	Baking & Confectionary Making II Theory	3 hrs
	243.	1819/201	House Keeping and Front office Theory	3 hrs
	244.	2404/302	Cytology, Histology & Genetics	3 hrs
	245.	2406/102	House Keeping Management Theory	3 hrs
	246.	2406/301	Front Office Theory	3 hrs
	247.	2420/202	Bread Making & Flour Conf. Theory II	3 hrs
	248.	2420/302	Bread Making & Flour Conf. Theory III	3 hrs
	249.	2428/102	Development Economics & Entrepreneurship Education	3 hrs
	250.	2428/202	Resource Management HIV/AIDS	3 hrs
	251.	2428/302	Counselling Psychology, Social Rehab. & Reintegration	3 hrs
	252.	2428/305	Community Concerns & Dev. Methodologies	3 hrs
	253.	2429/302	Drug Supply Management	3 hrs
	254.	2525/103 2921/103	Crop Enterprise Management I	3 hrs

DATE		PAPER CODE	PAPER NAME	DURATION
	255.	2525/202 2921/202	Crop Enterprise Management II	3 hrs
	256.	2525/302 2921/302	Agro Processing and Value Addition	3 hrs
	257.	2830/103	Introduction To Textile Technology, Spinning Preparation and Quality Control	3 hrs
	258.	2830/203	Industrial Organisation and Management and Quality Control in Knitting and Weaving	3 hrs
	259.	2830/304	Industrial Organization and Management II	3 hrs
	260.	3080/202	Construction Technology Paper I	3 hrs
	261.	3081/202	Structures I	3 hrs
	262.	3082/203 3084/203	Structures Including Highways Eng.	3 hrs
	263.	3083/202	Highway Engineering I	3 hrs
	264.	3301/212 3302/212 3303/212	Land Law, Environment, Physical, Planning Studies & GIS	3 hrs
	265.	3402/102	Management of Human Resources and Guidance and Counselling	3 hrs
	266.	3402/203	Research in Education and Training	3 hrs
<b>8.00 A.M. DAY 5 FRIDAY 16<sup>th</sup> NOVEMBER, 2018</b>				
<b>1<sup>ST</sup> MORNING SESSION</b>				
<b>FRIDAY</b> <b>16<sup>th</sup> NOVEMBER</b> <b>2018</b>  <b>1<sup>ST</sup> MORNING</b> <b>SESSION</b>  <b>8.00 A.M.</b>  <b>DAY 5</b>	267.	0101/215 0103/215 0105/215 0106/215 0202/215 0301/215 0302/215 0304/215 0305/215 0401/215 0402/215 0404/215 0405/215	Support Subjects	3 hrs
	268.	0504/103	Seamanship & Environment Protection	2 ½ hrs
	269.	0504/203	Seamanship & Cargo II	2 ½ hrs
	270.	05041/103	Seamanship and Boat Handling Practices	2 ½ hrs
	271.	05041/203	Cargo Handling and Stowage	2 ½ hrs
	272.	1202/313	Electrical Installation Technology	3 hrs
	273.	1204/315	Electronic Technology	3 hrs
	274.	1301/313 1304/313 1305/313	Site & Workshop Management	3 hrs
	275.	1308/313	Work Planning & Management	3 hrs
	276.	1309/313	Site Management	3 hrs
	277.	1314/103	Construction Technologies I	3 hrs
	278.	1401/313	Garment Designing, Cutting & Making Theory	3 hrs
	279.	1402/313	Food & Beverage Service Theory	3 hrs
	280.	1403/313	Food Processing & Preservation I	3 hrs
	281.	1404/313	Leather Goods Production	3 hrs
	282.	1405/313	Agricultural Economics & Farm Management	3 hrs
	283.	1406/313	Housekeeping & Maintenance Theory	3 hrs
	284.	1408/313	Chemistry Techniques	3 hrs
	285.	1409/313	Food Chemistry, Microbiology & Engineering	3 hrs
	286.	1410/203	Project Dev., Management, Econ. & Admin.	3 hrs
	287.	1411/313	Surface Preparations	3 hrs
	288.	1412/313	Parasitology & Histology	3 hrs
	289.	1501/103 1508/103	Mathematics	3 hrs
	290.	1501/203 1508/203	Mathematics and Mechanical Science II	3 hrs
	291.	1503/103	Mathematics	3 hrs
	292.	1503/203	Mathematics	3 hrs
	293.	1504/103 1505/103	Mathematics & Applied Science I	3 hrs

DATE		PAPER CODE	PAPER NAME	DURATION
	294.	1504/203 1505/203	Mathematics & Applied Science II	3 hrs
	295.	15041/103 15051/103	Mathematics I and Applied science I	3 hrs
	296.	15041/203	Mathematics II	3 hrs
	297.	15051/203	Mathematics II and Applied science II	3 hrs
	298.	1521/103	Electrical and Electronic Technology	3 hrs
	299.	1521/203 1522/203 1601/203 1602/203	Mathematics II	3 hrs
	300.	1601/103 1602/103	Mathematics I	3 hrs
	301.	1704/102	Mathematics I and Physical Science	3 hrs
	302.	1704/202	Mathematics II	3hrs
	303.	1801/103	Workshop Organisation and General Information	3hrs
	304.	1802/103	Food and Beverage Production Theory	3hrs
	305.	1802/203	Food and Beverage Service and Sales Theory	3 hrs
	306.	1819/103	Food & Beverage Production and Control Theory	3hrs
	307.	1901/103	Environmental Health, Safety, Legal and Policy Framework	3 hrs
	308.	1901/203	Petroleum Geology & The Fundamentals of Petroleum Exploration & Production	3 hrs
	309.	1903/103	Agricultural Production and Microbiology	3 hrs
	310.	1903/203	Food Engineering II	3 hrs
	311.	1904/103	Physics Techniques I	3 hrs
	312.	1904/203	Physics Techniques II	3 hrs
	313.	1905/103	Food Science, Food Safety and Hygiene, Meal Planning Management and Service Practice.	3 hrs
	314.	1905/203	Diet Therapy and Demonstration Techniques Practice	3 hrs
	315.	2080/202 2081/202 2082/202 1080/212	Industrial Org. & Management	3 hrs
	316.	2083/202	Industrial Org. & Management	3 hrs
	317.	2101/302 2102/302 2103/302 2104/302 2105/302 2106/302 2107/302 2108/302	Industrial Organisation & Management	3 hrs
	318.	2201/305 2203/305 2204/305 2206/305 2208/305	Industrial Organisation & Management	3 hrs
	319.	2205/305	Industrial Org. & Management	3 hrs
	320.	2207/305	Industrial Org. & Management	3 hrs
	321.	2209/102	Computer Applications	3 hrs
	322.	2209/202	Programming I	3 hrs
	323.	2209/302	Data Communications	3 hrs
<b>11.30 A.M. DAY 5 FRIDAY 16<sup>th</sup> NOVEMBER 2018</b>				
<b>2<sup>ND</sup> MORNING SESSION</b>				
	324.	2301/304 2302/304	Surveying	3 hrs
	325.	2304/304	Photogeology	3 hrs
	326.	2305/302 2307/302 2308/302	Surveying	3 hrs
	327.	2306/302	Surveying	3 hrs
	328.	2309/302	Construction Technology & Services	3 hrs
	329.	2401/305	Industrial Org. & Management	3 hrs
	330.	2413/302	Industrial Org. & Management	3 hrs

DATE		PAPER CODE	PAPER NAME	DURATION
<b>FRIDAY</b> <b>16<sup>th</sup> NOVEMBER</b> <b>2018</b>  <b>2<sup>ND</sup> MORNING</b> <b>SESSION</b>  <b>11.30 A.M.</b>  <b>DAY 5</b>	331.	2501/102 2502/102 2503/102 2508/102 2509/102	Mechanical Science & Electrical Principles	3 hrs
	332.	2501/202 2502/202 2503/202 2508/202 2509/202	Mechanics of Machines and Strength of Materials	3 hrs
	333.	2501/302 2503/302 2508/302 2509/302	Control Systems and Instrumentation	3 hrs
	334.	2502/302	Control Systems and Automation	3 hrs
	335.	2504/102	Marine Engineering & Construction Theory	3 hrs
	336.	2504/202	Ship Construction and Cargo Work II	3 hrs
	337.	2504/301	Marine Law and Management	3 hrs
	338.	25041/102	Ship construction	3 hrs
	339.	25041/202	Ship stability	3 hrs
	340.	25041/301	Marine Organisation and Management	3 hrs
	341.	2505/102	Marine Electrical and Electronics Technology	3 hrs
	342.	2505/202	Maritime Electronics Technology	3 hrs
	343.	2505/302	Electrical Instrumentation and Control Technology	3 hrs
	344.	25051/102	Marine Electrical Technology I	3 hrs
	345.	25051/202	Marine Electrical Technology II	3 hrs
	346.	25051/302	Marine Instrumentation Control Engineering	3 hrs
	347.	2506/102 2507/102	Aircraft Electrical Technology	3 hrs
	348.	2506/202 2507/202	Electronics and Control Systems	3 hrs
	349.	2506/302	Flight Mechanics	3 hrs
	350.	2507/302	Micro Controllers Technology	3 hrs
	351.	2521/103	Engineering Science and Drawing	3 hrs
	352.	2521/203 2601/202 2602/202 2603/202	Digital and Analogue Electronics	3 hrs
	353.	2521/302 2601/302 2602/302 2603/302	Micro Controllers and Micro Processor Systems	3 hrs
	354.	2528/103 2922/103	Environmental Biology	3 hrs
	355.	2528/203 2922/203	Environmental Microbiology	3 hrs
	356.	2528/303 2922/303	Environmental Biochemistry and toxicology	3 hrs
	357.	2601/102 2602/102 2603/102	Physical, Mechanical Science and Electrical Principles	3 hrs
	358.	2705/102 2707/102 2709/102 2710/102	Mathematics I and Physical Science	3 hrs
	359.	2705/203	Construction Management I and Workshop Technology II	3 hrs
	360.	2705/303 2709/303 2710/303	Building Construction, Drawing III and Services	3 hrs
	361.	2707/203	Construction Management I, Workshop Technology II & Water Supply	3 hrs
	362.	2707/303	Building Construction III and Transportation Engineering II	3 hrs
	363.	2709/203 2710/203	Building Construction II, Workshop Technology II	3 hrs
	364.	2802/102	Catering Premises and Mathematics	3 hrs
	365.	2802/202	Nutrition, Diet Therapy and Home Nursing	3 hrs



DATE		PAPER CODE	PAPER NAME	DURATION
	366.	2802/302 2920/302	Sales and marketing	3 hrs
	367.	2803/102	Textile Science and Clothing Construction I Theory	3 hrs
	368.	2803/202	Textile Science II and Clothing Construction II Theory	3 hrs
	369.	2803/302	Clothing Construction III Theory	3 hrs
	370.	2805/102	Child Growth development and Psychology	3 hrs
	371.	2805/203	Children in Juvenile Justice Systems and Behaviour Modification.	3 hrs
	372.	2805/304	Principles and Practices of Management	3 hrs
	373.	2819/102	Food & Beverage Production ,Nutrition & Mathematics	3 hrs
	374.	2819/202	Diet Therapy, Hospitality Accounting & Control II Theory	3 hrs
	375.	2901/103	Engineering Drawing, W/Shop Technology, Environmental Health and Safety management	3 hrs
	376.	2901/203	Rocks, Fluids & Reservoir Geophysics	3 hrs
	377.	2901/303	Petroleum Exploration & Drilling	3 hrs
	378.	2910/103	Crop Enterprise Management I and Foundations of Sustainable Agriculture	3 hrs
	379.	2910/303	Development economics and Agricultural marketing	3 hrs
	380.	2913/103	Laboratory and Workshop Practice I	3 hrs
	381.	2913/203	Technology of Specific Products I	3 hrs
	382.	2914/103 2915/103	Laboratory and Workshop Practice I	3 hrs
	383.	2920/102	Food Science and Nutrition	3 hrs
	384.	3080/201 3081/201 3082/201 3083/201	Mathematics	3 hrs
	385.	4080/207 4082/207 4089/207	Management and Statistics	3 hrs
<b>8.00 A.M. DAY 6 MONDAY 19<sup>TH</sup> NOVEMBER 2018</b>				
<b>1<sup>ST</sup> MORNING SESSION</b>				
<b>MONDAY</b>	386.	1410/202	Law, History & Government	3 hrs
<b>19<sup>TH</sup> NOVEMBER 2018</b>	387.	2101/303 2102/303 2103/303 2104/303 2105/303 2106/303 2107/303 2108/303	Mechanical Technology	3 hrs
<b>1<sup>ST</sup> MORNING SESSION</b>	388.	2306/303	Building Const. Civil Eng. Constr. & Drawing	3 hrs
<b>8.00 A.M.</b>	389.	2309/303	Materials & Concrete Technology	3 hrs
<b>DAY 6</b>	390.	2310/303 2311/304	Land Surveying	3 hrs
	391.	2401/303	Garment Cutting & Making Tech. Theory	3 hrs
	392.	2402/303 2419/303	Food and Beverage Service & Sales Theory	3 hrs
	393.	2403/301	Food Engineering	3 hrs
	394.	2405/303	Statistical Methods	3 hrs
	395.	2406/103	Principles and Practice of Management	3 hrs
	396.	2406/203	Applied Science	3 hrs
	397.	2406/303	Principles of Accounts	3 hrs
	398.	2407/303	Chemical Pathology	3 hrs
	399.	2411/303	Organic Chemistry	3 hrs
	400.	2413/303	Industrial Chemical Processes	3 hrs
	401.	2420/203	Bakery Control, Principles of Accounts & Communication Skills	3 hrs
	402.	2422/302 2423/302 2424/302	Printing Science & Materials Tech.	3 hrs
	403.	2426/302 2427/302	Food Science & Technology	3 hrs
	404.	2428/103	Community Based Organizations, Capacity Building & Empt	3 hrs
	405.	2428/203	Advocacy, Lobbying & Legal Aspects in Social Development	3 hrs
	406.	2428/303	Social Policy Administration and Disaster Management	3 hrs



DATE		PAPER CODE	PAPER NAME	DURATION
	407.	2428/306	Gender Development & Community Leadership	3 hrs
	408.	2429/303	Pharmaceutics	3 hrs
	409.	2525/104 2921/104	Livestock Enterprise Management I	3 hrs
	410.	2525/203 2921/203	Livestock Enterprise Management II	3 hrs
	411.	2525/301 2921/301	Livestock Enterprise Management III	3 hrs
	412.	2528/204 2922/204	Environmental Analytical Techniques and laboratory Management	3 hrs
	413.	2528/304 2922/304	Environmental Analytical Techniques	3 hrs
	414.	2705/103 2707/103 2709/103 2710/103	Structures I and Construction Materials	3 hrs
	415.	2705/202 2707/202 2709/202 2710/202	Structures II, Geotechnology II and Concrete Technology II	3 hrs
	416.	2705/302 2709/302 2710/302	Structures III	3 hrs
	417.	2707/302	Structures III	3 hrs
	418.	2802/103	Food and Beverage Production Theory	3 hrs
	419.	2802/203	Food And Beverage Control Theory	3 hrs
	420.	2802/303 2819/303 2920/303	Principles and Practice of Management	3 hrs
	421.	2803/103	Art, Fashion Design & Sketching and Cutting Technology I	3 hrs
	422.	2803/203	Fashion Design & Sketching II and Cutting Technology II Theory	3 hrs
	423.	2803/303	Fashion Marketing	3 hrs
	424.	2805/202	Case Management in Child Care and Protection	3 hrs
	425.	2805/302	Advocacy and Lobbying	3 hrs
	426.	2819/103	Food & Beverage Service and Control Theory	3 hrs
	427.	2830/104	Spinning Processes and Machinery	3 hrs
	428.	2830/204	Fabric Design and Analysis	3 hrs
	429.	2830/303	Fabric Processing, Machinery and Textile Design	3 hrs
	430.	2901/104	Geodynamics, Sedimentology, Stratigraphy and Policy Framework	3 hrs
	431.	2902/302	Prevention and Treatment Approaches	3 hrs
	432.	2902-09/102	Introduction to Psychology and Lifespan Development	3 hrs
	433.	2902-09/203	Contextual and Multicultural Issues in Counselling and Research Methods	3 hrs
	434.	2903/302	Contextual Issues	3 hrs
	435.	2904/302	Contextual Issues	3 hrs
	436.	2905/302	Contextual and Psychosocial Issues	3 hrs
	437.	2906/302	Contextual Issues, Sexuality and Disaster Management	3 hrs
	438.	2907/302	Contextual Issues In Marriage and Family	3 hrs
	439.	2908/302	Counselling For Persons With Special Needs and Disabilities	3 hrs
	440.	2909/302	Contextual Issues	3 hrs
	441.	2910/104	Livestock Enterprise Management I	3 hrs
	442.	2910/203	Livestock Enterprise Management II	3 hrs
	443.	2916/106	Food Safety and Hygiene, Food Production for Invalids and Convalescents and Nutrition Anthropology	3 hrs
	444.	2916/306	Industrial Organization and management, Product Development, Marketing and Sales.	3 hrs
	445.	2920/103	Baking Control I and Mathematics	3 hrs
	446.	2920/202	Baking control and Baking Material Science	3 hrs
	447.	3080/205	Measurements of Building Works	3 hrs
	448.	3081/203	Structures II	3 hrs
	449.	3083/203	Highway Engineering II	3 hrs
	450.	3084/205	Water Resources	3 hrs
<b>11.30 A.M. DAY 6 MONDAY 19<sup>TH</sup> NOVEMBER 2018</b>				
<b>2<sup>ND</sup> MORNING SESSION</b>				
	451.	1080/218	Production Engineering II	3 hrs

DATE		PAPER CODE	PAPER NAME	DURATION
<b>MONDAY</b> <b>19<sup>TH</sup> NOVEMBER</b> <b>2018</b>  <b>2<sup>ND</sup> MORNING</b> <b>SESSION</b>  <b>11.30 A.M.</b>  <b>DAY 6</b>	452.	1080/220	Plant Engineering II	3 hrs
	453.	1080/222	Automobile & Prime Movers Engineering II	3 hrs
	454.	1102/313 1103/313 1105/313 1106/313	Workshop Organization & Management	3 hrs
	455.	1202/312	Electrical Principles	3 hrs
	456.	1204/314	Electrical Engineering Principles	3 hrs
	457.	1501/102 1508/102	Mechanical Science and Electrical Principles	3 hrs
	458.	1501/202 1503/202 1508/202	Workshop Organisation and Management	3 hrs
	459.	1503/102	Applied Science, Electrical and Electronics Principles	3 hrs
	460.	1504/102	Seamanship I	3 hrs
	461.	1504/202	Seamanship & Management	3 hrs
	462.	15041/102	Ship construction	3 hrs
	463.	15041/202	Cargo Handling and Stowage	3 hrs
	464.	1505/102	Ship Construction & Naval Architecture I	3 hrs
	465.	1505/202	Ship Construction & Naval Architecture II	3 hrs
	466.	15051/102	Introduction to Ship Construction and Naval Architecture	3 hrs
	467.	15051/202	Ship Construction and Workshop Technology	3 hrs
	468.	1521/202 1522/202 1601/202 1602/202	Workshop Organisation and Management	3 hrs
	469.	1903/104	Food Engineering I	3 hrs
	470.	1903/204	Food Processing and Preservation II	3 hrs
	471.	2080/204 2081/204 2082/204 2083/204	Control Systems	3 hrs
	472.	2107/308	Airfield & Safety Procedures	3 hrs
	473.	2201/304 2203/304 2204/304	Control Systems	3 hrs
	474.	2206/302	Control Systems	3 hrs
	475.	2207/306	Airfield & Safety Procedure	3 hrs
	476.	2209/103	Information Systems Management	3 hrs
	477.	2209/203	Programming II	3 hrs
	478.	2416/302 2417/302 2418/302	Socio – Cultural Studies	3 hrs
	479.	2501/104 2508/104	Engineering Drawing I	3 hrs
	480.	2501/204 2508/204	Engineering Drawing II and Design	3 hrs
	481.	2501/304 2502/304 2503/304 2508/304 2509/304	Thermodynamics and Fluid Mechanics	3 hrs
	482.	2502/104 2503/104 2509/104	Engineering Drawing I	3 hrs
	483.	2502/204	Plant Engineering Drawing	3 hrs
	484.	2503/204 2509/204	Engineering Drawing and Design	3 hrs
	485.	2504/104	Navigation I	3 hrs
	486.	2504/204	Navigation II	3 hrs

DATE		PAPER CODE	PAPER NAME	DURATION
	487.	2504/304	Navigation III	3 hrs
	488.	25041/104	Navigation I	3 hrs
	489.	25041/204	Navigation II	3 hrs
	490.	25041/304	Navigation III	3 hrs
	491.	2505/104	Technical Drawing and Workshop Technology	3 hrs
	492.	2505/204	Engineering Drawing & Design	3 hrs
	493.	2505/304	Motor and Steam Engineering Knowledge	3 hrs
	494.	25051/104	Technical drawing and Workshop Technology	3 hrs
	495.	25051/204	Engineering Drawing and Design	3 hrs
	496.	25051/304	Maritime Conventions and Environment Protection	3 hrs
	497.	2506/104 2507/104	Engineering Drawing	3 hrs
	498.	2506/204 2507/204	Airfield Safety Procedures II and Research Methods	3 hrs
	499.	2506/304	Gas Turbine Engines	3 hrs
	500.	2507/304	Aircraft Communication, Surveillance and Navigation Systems	3 hrs
	501.	2521/104	Electrical Installation and Principles	3 hrs
	502.	2528/104 2922/104	Environmental Laboratory Practice	3 hrs
	503.	2805/103	Child Care and Protection	3 hrs
	504.	2901/204	Petroleum Geochemistry	3 hrs
	505.	2901/304	Geographic Information Science (GIS)	3 hrs
	506.	2910/304	Management of Natural Resources and Community Development	3 hrs
	507.	2913/105	Food Engineering I	3 hrs
	508.	2913/205	Food Engineering II	3 hrs
	509.	2914/105	Animal Husbandry, Museum and Herbarium Techniques	3 hrs
	510.	2915/105	Physical Chemistry I and Chemical Analytical Methods I	3 hrs
	511.	3301/215	Survey Adjustments	3 hrs
	512.	3302/215	Photogrammetric Data Processing	3 hrs
	513.	3303/215	Cartographic Communication & Map Design	3 hrs
	514.	3402/204	Education Policy, Planning and Curriculum Management	3 hrs
	515.	4080/201	Physical Chemistry	3 hrs
	516.	4082/201	Animal Physiology I	3 hrs
	517.	4089/201	Food Engineering Systems	3 hrs
<b>8.00 A.M. DAY 7 TUESDAY 20<sup>TH</sup> NOVEMBER 2018</b>				
<b>1<sup>ST</sup> MORNING SESSION</b>				
<b>TUESDAY 20<sup>TH</sup> NOVEMBER 2018</b>	518.	1080/214	Mechanics of Machines	3 hrs
	519.	1102/314	Mechanical Engineering Trade Theory	3 hrs
	520.	1103/314	Motor Vehicle Trade Theory	3 hrs
	521.	1105/314	Agricultural Engineering Trade Theory	3 hrs
	522.	1106/314	Fabrication and Welding Trade Theory	3 hrs
	523.	1301/314	Carpentry and Joinery Craft Theory	3 hrs
	524.	1304/314	Masonry Craft Theory	3 hrs
	525.	1305/314	Plumbing Craft Theory	3 hrs
	526.	1308/314	Land Surveying Theory	3 hrs
	527.	1309/314	Road Construction Tech. & Drawing	3 hrs
	528.	1401/314	Material Science	3 hrs
	529.	1403/314	Food Processing and Preservation II	3 hrs
	530.	1404/314	Footwear Goods Production	3 hrs
	531.	1405/314	Agricultural Extension Education & Home Economics	3 hrs
	532.	1406/314	Laundry Theory	3 hrs
	533.	1408/314	Biology Techniques	3 hrs
	534.	1409/314	Fisheries Management, Marketing & Utilization	3 hrs
	535.	1410/204	Human Growth, Development & Community Health	3 hrs
	536.	1411/314	Press Operations & Maintenance	3 hrs
	537.	1412/315	Medical Laboratory Technology Practice	4 hrs
	538.	1704/105	Site Management and Construction Plant	3 hrs
	539.	1819/202	Laundry, Catering and Accommodation Premises Theory	3 hrs
	540.	1901/105	Engineering Drawing	3 hrs
	541.	2201/303 2203/303 2206/303	Microprocessor Systems	3 hrs
	542.	2204/303	Electrical Power Systems	3 hrs

DATE		PAPER CODE	PAPER NAME	DURATION
	543.	2205/303	Microprocessor Systems	3 hrs
	544.	2207/303	Communication & Navigation System	3 hrs
	545.	2208/302	Medical Electronics	3 hrs
	546.	2406/202	Laundry and Dry Cleaning Theory	3 hrs
	547.	2413/304	Thermodynamics and Fluid Mechanics	3 hrs
	548.	2416/303 2417/303 2418/303	Graphic Reproduction	3 hrs
	549.	2419/304	Principles of Accounting & Management	3 hrs
	550.	2521/304 2601/304	Power Electronics, Machines and Utilization	3 hrs
	551.	2601/104 2602/104 2603/104	Engineering Drawing , Materials and Workshop Technology	3 hrs
	552.	2602/304	Electromagnetic Field Theory & Communication Systems	3 hrs
	553.	2603/304	Electromagnetic Field Theory & Networking	3 hrs
	554.	2705/104 2707/104 2709/104 2710/104	Surveying I and Workshop Technology (Mechanical)	3 hrs
	555.	2705/201 2707/201 2709/201 2710/201	Mathematics II and Surveying II	3 hrs
	556.	2705/301 2707/301 2709/301 2710/301	Mathematics III and Surveying III	3 hrs
	557.	2802/104	Food and Beverage Service Theory	3 hrs
	558.	2802/204 2819/204	Food Production Management Theory	3 hrs
	559.	2805/301	Care for Children with Special needs, Guidance, Mentorship and Self-care.	3 hrs
	560.	2901/105	Petroleum Geology and Exploration Techniques	3 hrs
	561.	2902/301	Theories Of Addiction Counseling	3 hrs
	562.	2902-09/103	Theories of Counselling I and Counselling skills	3 hrs
	563.	2902-09/201	Theories of Counselling II and Personal Development II	3 hrs
	564.	2903/301	Growth and Development	3 hrs
	565.	2904/301	Theories and Practice Of Disaster Management and Crisis Intervention	3 hrs
	566.	2905/301	Theories, Process and Practice	3 hrs
	567.	2906/301	Human Development and Establishing Guidance and Counseling.	3 hrs
	568.	2907/301	Theories and Practice In Marriage and Family Therapy	3 hrs
	569.	2908/301	Introduction To Persons With Special Needs and Disabilities	3 hrs
	570.	2909/301	Sacred Writings I and II	3 hrs
	571.	2920/104	Baking I Theory	3 hrs
	572.	2920/203	Baking II Theory (Bread & Confectionery)	3 hrs
	573.	2920/304	Baking III Theory (Bread and Confectionery)	3 hrs
	574.	3080/204 3082/204	Site Organisation, Administration and Work Study	3 hrs
	575.	3084/204	Irrigation Engineering	3 hrs
	576.	3301/213	Geophysics	3 hrs
	577.	3302/213	Remote Sensing	3 hrs
	578.	3303/213	Geography	3 hrs
	579.	3402/104	Communication, Marketing and Public Relations	3 hrs
<b>11.30 A.M. DAY 7 TUESDAY 20<sup>TH</sup> NOVEMBER 2018</b>				
<b>2<sup>ND</sup> MORNING SESSION</b>				
	580.	1501/105	Fabrication Technology, Materials and metallurgy	3 hrs
	581.	1501/205	Production Processes Technology	3 hrs
	582.	1503/105	Vehicle Technology, Workshop Technology and Vehicle bodywork	3 hrs
	583.	1503/205	Engine Technology and Auto-Electrics	3 hrs
	584.	1508/105	Fabrication and Welding Technology, Materials and Metallurgy I	3 hrs
	585.	1508/205	Fabrication and Welding Technology I, Materials & Metallurgy II	3 hrs

DATE		PAPER CODE	PAPER NAME	DURATION
<b>TUESDAY</b>  <b>20<sup>TH</sup> NOVEMBER 2018</b>  <b>2<sup>ND</sup> MORNING SESSION</b>  <b>11.30 A.M.</b>  <b>DAY 7</b>	586.	1521/205 1601/205	Electrical Installation II, Estimating, Tendering, Industrial Machines and Controls	3 hrs
	587.	1522/205 1602/205	Telecommunication Systems	3 hrs
	588.	1601/105 1602/105	Electrical and Solar Installation Technology	3 hrs
	589.	1904/105	Biology Techniques I	3 hrs
	590.	1904/205	Biology Techniques II	3 hrs
	591.	1905/105	Introduction to Nutrition and Dietetics, Introduction to Nutrition Care Process and Principles of Human Nutrition	3 hrs
	592.	1905/205	Food Products for Invalids and Convalescents, Introduction to Behavioural Sciences and Nutrition Anthropology	3 hrs
	593.	2081/205 2082/205	Digital Electronics	3 hrs
	594.	2301/302 2302/302 2304/302	Hydraulics	3 hrs
	595.	2310/302 2311/302 2312/302 2313/302	Management	3 hrs
	596.	2403/302	Food Chemistry	3 hrs
	597.	2404/303	Microbiology, Parasitology & Immunology	3 hrs
	598.	2405/302	Applied Economics	3 hrs
	599.	2407/302	Haematology & Immuno-Haematology	3 hrs
	600.	2411/302	Inorganic Chemistry	3 hrs
	601.	2420/303	Principles & Pract. of Mgmt & Mktg; Legal Aspect of bakery Ind.	3 hrs
	602.	2425/102	Principles of Animal Production	3 hrs
	603.	2425/202	Animal Production II	3 hrs
	604.	2425/302	Animal Production III	3 hrs
	605.	2426/103A 2427/102	Legal Aspects of Dietetics & Communication Skills	3 hrs
	606.	2426/203A	Human Psychology & Computer Applications	3 hrs
	607.	2426/303 2427/303	Principles of Accounts and Practice of Management	3 hrs
	608.	2427/202	Human Psychology	3 hrs
	609.	2428/104	Communication Skills & Information Technology	3 hrs
	610.	2428/204	Statistics	3 hrs
	611.	2429/304 A	Pharmaceutical Chemistry Theory	3 hrs
	612.	2501/105	Structural Fabrication Technology, Material and Metallurgy I	3 hrs
	613.	2501/205	Structural Fabrication Technology, Materials and Metallurgy II	3 hrs
	614.	2501/305	Production Line Processes and Foundry Technology	3 hrs
	615.	2502/206	Building Services, Machine Installations, Refrigeration, Air conditioning and Ventilation	3 hrs
	616.	2503/105	Vehicle Technology	3 hrs
	617.	2503/205	Engines Technology and Bodywork	3 hrs
	618.	2503/305	Auto Electrics and Electronics	3 hrs
	619.	2504/105	General Ship Knowledge	3 hrs
	620.	2504/205	Maritime Conventions	3 hrs
	621.	2504/1/105	Seamanship and Meteorology	3 hrs
	622.	2504/1/205	Cargo handling and stowage	3 hrs
	623.	2504/1/305	Ship masters business and law	3 hrs
	624.	2505/105	Ship Construction and Naval Architecture I	3 hrs
	625.	2505/205	Marine Mechanical Technology I	3 hrs
	626.	2505/305	Marine Mechanical Technology II	3 hrs
	627.	2505/1/105	Ship Construction	3 hrs
	628.	2505/1/205	Applied Mechanics	3 hrs
	629.	2505/1/305	Applied Thermo Fluids	3 hrs
	630.	2506/105 2507/105	Workshop Technology and Life Skills	3 hrs
	631.	2506/205	Aircraft Mechanical Technology I	3 hrs
	632.	2506/305	Aircraft Mechanical Technology II	3 hrs
	633.	2507/205	Measurement Technology	3 hrs
	634.	2507/305	Electromagnetic Field Theory	3 hrs

DATE		PAPER CODE	PAPER NAME	DURATION
	635.	2508/105	Fabrication and Welding Technology, Materials and Metallurgy I	3 hrs
	636.	2508/205	Fabrication and Welding Technology, Materials and Metallurgy II	3 hrs
	637.	2508/305	Advanced Fabrication Technology	3 hrs
	638.	2509/105	Engine and Construction Plant I Technology I	3 hrs
	639.	2509/205	Vehicle and Construction Plant Technology II	3 hrs
	640.	2509/305	Construction Plant Technology and Practice III	3 hrs
	641.	2521/204 2601/204 2602/204 2603/204	Engineering Drawing and Circuit Analysis	3 hrs
	642.	2525/105 2921/105	Agricultural Engineering I	3 hrs
	643.	2525/205 2921/205	Agricultural Engineering II	3 hrs
	644.	2525/303 2921/303	Agricultural engineering III	3 hrs
	645.	2528/105 2922/105	Human Ecology and Economics	3 hrs
	646.	2528/205 2922/205	Environmental Resource Management and Economics	3 hrs
	647.	2910/105	Agricultural Engineering I	3 hrs
	648.	2910/205	Agricultural Engineering II	3 hrs
	649.	2910/305	Rural Sociology and Community Health	3 hrs
	650.	2916/103	Diet Therapy I, Meal Planning Management & Service and Principles of Human Nutrition Practice	3 hrs
	651.	2916/203	Diet Therapy II and Nutrition in the Lifespan	3 hrs
	652.	2916/303	Diet Therapy III and Nutrition Education and Counselling	3 hrs
	653.	4080/204	Gravimetric, Volumetric and Biochemistry	3 hrs
	654.	4082/204	Pharmacology & Toxicology II	3 hrs
	655.	4089/204	Food Analysis	3 hrs
<b>8.00 A.M. DAY 8 WEDNESDAY 21<sup>st</sup> NOVEMBER 2018</b>				
<b>1<sup>ST</sup> MORNING SESSION</b>				
<b>WEDNESDAY 21<sup>st</sup> NOVEMBER 2018</b>	656.	1080/215	Applied Thermodynamics	3 hrs
	657.	1401/315	Production Techniques	3 hrs
	658.	1405/315	Agricultural Engineering (Theory)	3 hrs
	659.	1406/315	Front Office Operations Theory	3 hrs
	660.	1408/315	Science Laboratory Practice (Practical)	4 hrs
	661.	1410/205	Sociology, Research Methods & Comm. Skill	3 hrs
	662.	1412/314	Clinical Chemistry	3 hrs
	663.	1504/105	Marine Engineering & Environment Protection	3 hrs
	664.	15041/105	General Marine Engineering Knowledge	3 hrs
	665.	15041/205	Watch keeping Practices and Meteorology	3 hrs
	666.	1505/105	Marine Engineering & Environment Protection	3 hrs
	667.	15051/105	Technical Drawing and Workshop Technology I	3 hrs
	668.	15051/205	Marine Electronics	3 hrs
	669.	1704/103	Building Construction I and Drawing	3 hrs
	670.	1704/203	Building Construction II & CAD	3 hrs
	671.	1901/106	Economics	3 hrs
	672.	1903/105	Food Processing and Preservation I	3 hrs
	673.	2080/205	Electrical Power Supply	3 hrs
	674.	2081/206 2083/205	Industrial Electronics	3 hrs
	675.	2201/302	Industrial Electronics	3 hrs
	676.	2208/303	Clinical Engineering I	3 hrs
	677.	2306/304	Measurement of Building and Civil Engineering Works	3 hrs
	678.	2309/304	Measurement Specs. & Costing	3 hrs
	679.	2313/304	Print Origination	3 hrs
	680.	2416/304	Illustration, Packing & Model Making	3 hrs
	681.	2417/304 2418/304	Multimedia Crafts & Draughtsmanship	4 hrs
	682.	2422/303 2423/303 2424/303	Graphic Design	3 hrs



DATE		PAPER CODE	PAPER NAME	DURATION
	683.	2425/103	Agricultural Economics I, Extension	3 hrs
	684.	2425/203	Agricultural Economics II, Extension & Home Economics	3 hrs
	685.	2425/303	Farm Business Management & Extension	3 hrs
	686.	2429/305	Pharmacy Practice and Dispensing/Compounding	4 hrs
	687.	2521/205 2601/205	Electrical Power Generation, Transmission & Protection	3 hrs
	688.	2521/305 2601/305	Electrical Power Systems and Electro Magnetic Field Theory	3 hrs
	689.	2601/105 2602/105 2603/105	Electrical Science & Solar Installation Technology	3 hrs
	690.	2602/205	Telecommunication Principles and industrial Measurements	3 hrs
	691.	2602/305	Data Communication & Networking	3 hrs
	692.	2603/205	Instrumentation Systems and Industrial Measurement	3 hrs
	693.	2603/305	Industrial Measurements II & Industrial Electronics	3 hrs
	694.	2705/105 2707/105 2709/105	Building Construction I, Technical Drawing & Construction Plant	3 hrs
	695.	2705/205	Building Construction II and Drawing II	3 hrs
	696.	2705/304 2707/304 2709/304 2710/304	Construction Management II, Estimating and Costing II	3 hrs
	697.	2707/205	Building Construction II, Civil Engineering Construction II & Transportation Engineering I	3 hrs
	698.	2709/204 2710/204	Measurements of Building Works, Estimating & Costing I and Construction Management I	3 hrs
	699.	2710/105	Building Construction I and Construction Plant	3 hrs
	700.	2805/105	Introduction to Accounting	3 hrs
	701.	2805/305	Financial management	3 hrs
	702.	2819/104	Accommodation Operations Theory	3 hrs
	703.	2819/201	Accommodation Operations Management & Law Theory	3 hrs
	704.	2819/301	Accommodation Operations Management II theory	3 hrs
	705.	2901/205	Earth science & Wave Theory	3 hrs
	706.	2901/305	Remote Sensing	3 hrs
	707.	3080/203	Construction Technology Paper II	3 hrs
	708.	2920/201	Accounting and Legal aspects	3 hrs
	709.	3081/204	Concrete and Timber Technology	3 hrs
	710.	3082/202	Construction Tech. Concrete Tech & Mechanical Plant	3 hrs
	711.	3083/204	Engineering Surveying	3 hrs
	712.	3084/202	Fluid Mechanics & Hydraulic Machines	3 hrs
	713.	3402/103	Financial Management of Education Institutions	3 hrs
	714.	3402/202	Entrepreneurship Education and Project Management	3 hrs
	715.	4080/202	Inorganic Chemistry	3 hrs
	716.	4082/202	Animal Physiology II	3 hrs
	717.	4089/202	Food Processing & Preservation	3 hrs
<b>11.30 A.M. DAY 8 WEDNESDAY 21<sup>st</sup> NOVEMBER, 2018</b>				
<b>2<sup>ND</sup> MORNING SESSION</b>				
<b>WEDNESDAY 21<sup>st</sup> NOVEMBER 2018</b>	718.	0504/104	Marine Engineering I	2½ hrs
	719.	05041/104	General Marine Engineering knowledge I	2½ hrs
	720.	05041/204	General Marine Engineering knowledge II	2½ hrs
	721.	1504/204	Navigation	3 hrs
	722.	15041/204	Terrestrial and Coastal Navigation	3 hrs
	723.	1801/104	Textile Material Knowledge and Fabric Colouration Theory	3 hrs
	724.	1904/104	Chemistry Techniques I	3 hrs
	725.	1904/204	Chemistry Techniques II	3 hrs
	726.	1905/104	Food Science, Food Safety and Hygiene, Meal Planning Management and Service Theory	3 hrs
	727.	1905/204	Diet Therapy (Theory), Nutrition in HIV& AIDS and Management of Malnutrition	3 hrs
	728.	2101/304	Engineering Drawing & Design	3 hrs
	729.	2102/304	Plant & Work Services Drawing	3 hrs



DATE		PAPER CODE	PAPER NAME	DURATION
	730.	2103/304 2104/304 2105/304	Engineering Drawing & Sketching	3 hrs
	731.	2106/304	Engineering Drawing, Pattern Dev. & Design	3 hrs
	732.	2107/304	Flight Mechanics	3 hrs
	733.	2108/304	Engineering Drawing and Design	3 hrs
	734.	2205/304	Quantitative Techniques	3 hrs
	735.	2206/304	Measurement Systems	3 hrs
	736.	2207/304	Digital Principles & Microprocessors	3 hrs
	737.	2305/304	Building Technology & Drawing	3 hrs
	738.	2307/304	Soil Mechanics & Hydraulics	3 hrs
	739.	2308/304	Soil Mechanics & Hydraulics	3 hrs
	740.	2310/304 2312/304	Cartography	3 hrs
	741.	2401/304	Textile Science	3 hrs
	742.	2402/304	Principles of Accounts	3 hrs
	743.	2403/304	Food Microbiology	3 hrs
	744.	2404/304	Biochemistry, Anatomy & Physiology	3 hrs
	745.	2405/304	Applied Statistics	3 hrs
	746.	2407/304	Immunology	3 hrs
	747.	2411/304	Chemical Analytical Methods and Biochemistry	3 hrs
	748.	2501/106	Tool Room Process Technology I	3 hrs
	749.	2501/206	Tool Room Processes Technology II and Metrology	3 hrs
	750.	2502/106 2503/106 2509/106	Materials and workshop Technology	3 hrs
	751.	25041/206	Watch keeping practices (Theory)	3 hrs
	752.	2505/106	Marine Engineering and Environmental Protection	3 hrs
	753.	2505/206	Maritime Law	3 hrs
	754.	25051/106	General Marine and Motor Engineering knowledge I	3 hrs
	755.	25051/206	General Marine and Motor Engineering knowledge II	3 hrs
	756.	2506/106 2507/106	Airframe Structures and Airfield Safety	3 hrs
	757.	2506/206	Airframe Systems I	3 hrs
	758.	2506/306 2507/306	Data and Computer Networks	3 hrs
	759.	2507/206	Communication and Telecommunication Systems	3 hrs
	760.	2508/106	Metal Technology and Joining Processes I	3 hrs
	761.	2508/206	Metal Technology and Joining Processes II	3 hrs
	762.	2508/306	Welding Processes	3 hrs
	763.	2805/204	Child and Adolescent Counselling and Family Care for Children	3 hrs
	764.	2902/304	Psychoactive Substances and Comorbidity	3 hrs
		2902-09/104	Contextual, Ethical and Legal Issues in Counselling	3 hrs
	765.	2902-09/204	Abnormal Behaviour and Psychological Testing	3 hrs
	766.	2903/304	Guidance and Counselling Techniques and Psychological Assessment	3 hrs
	767.	2904/304	Disaster, Stress and Conflict Management	3 hrs
	768.	2905/304	HIV Management	3 hrs
	769.	2906/304	Introduction To, and Practice Of Guidance and Counselling and Mental Health.	3 hrs
	770.	2907/304	Sociology and Trends In Marriage and Family Therapy	3 hrs
	771.	2908/304	Contextual Issues and Personal Development	3 hrs
	772.	2909/304	Major World Religions and African Traditional Religions	3 hrs
	773.	2913/104	Agricultural Production and General Microbiology	3 hrs
	774.	2913/204	Food Processing and Preservation I	3 hrs
	775.	2914/104	Taxonomy, Cytology and Microbiology	3 hrs
	776.	2915/104	Organic and Inorganic Chemistry I	3 hrs

DATE		PAPER CODE	PAPER NAME	DURATION
<b>8.00 A.M. DAY 9 THURSDAY 22<sup>nd</sup> NOVEMBER, 2018</b>				
<b>1<sup>st</sup> MORNING SESSION</b>				
<b>THURSDAY</b>  <b>22<sup>nd</sup> NOVEMBER 2018</b>  <b>1<sup>st</sup> MORNING SESSION</b>  <b>8.00 A.M.</b>  <b>DAY 9</b>	777.	0501/101 0516/101 0503/101 0513/101 0505/101 0521/101 0601/101 0531/101 0701/101 0534/101 0702/101	General Education (Engineering) Level I	1 hr
		0501/201 0503/201 0505/201 0513/201 0601/201 0531/201 0701/201 0534/201 0702/201	General Education Level (Engineering) II	1 hr
		0541/101 0602/101 0801/101 0901/101 0902/101 0903/101 0904/101 0920/101	General Education (Science) Level I	1 hr
		0541/101 0602/201 0801/201 0901/201 0902/201 0903/201 0904/201 0920/201	General Education I (Science) Level II	1 hr
	781.	1410/206	Kiswahili	3 hrs
	782.	1904/106	Science Laboratory Techniques practical I	4 hrs
	783.	1904/206	Science Laboratory Techniques practical II	4 hrs
	784.	1905/106	Legal Aspects of Nutrition and Dietetics, HIV and AIDS, Introduction to Primary Health Care	3 hrs
	785.	1905/206	Maternal and Child Nutrition, Nutrition in the Lifecycle and Nutrition for Vulnerable Groups	3 hrs
	786.	2101/306	Production Technology & Metrology	3 hrs
	787.	2102/306	Plant Technology & practice	3 hrs
	788.	2103/306	Vehicle Technology & Practice	3 hrs
	789.	2104/306	Construction Plant Technology	3 hrs
	790.	2105/306	Agric. Machines, Implementation & Field Engineering	3 hrs
	791.	2106/306	Welding and Fabrication Technology	3 hrs
	792.	2107/306	Aircraft Propulsion	3 hrs
	793.	2108/306	Foundry Technology & Practice	3 hrs
	794.	2201/306	Instrumentation	3 hrs
	795.	2203/306	Communication Systems	3 hrs
	796.	2204/306	Power Electronics & Micro-processors	3 hrs
	797.	2205/306	Computer Applications	3 hrs
	798.	2206/306	Transmission of Measurement and Control Signals	3 hrs
	799.	2206/308	Aeronautics	3 hrs
	800.	2208/306	Hospital Engineering I and II	3 hrs
	801.	2301/306	Water Supply	3 hrs
	802.	2302/306	Waste Water	3 hrs
	803.	2304/306	Drilling, Mechanical and Electrical Technology	3 hrs
	804.	2305/306	Construction Management	3 hrs
	805.	2306/306	Construction Management	3 hrs
	806.	2307/306	Civil Engineering, Construction & Drawing	3 hrs

DATE		PAPER CODE	PAPER NAME	DURATION
	807.	2308/306	Traffic Engineering	3 hrs
	808.	2309/306	Construction Management and Law	3 hrs
	809.	2310/306	Photogrammetry	3 hrs
	810.	2311/306	Topographic & Cadastral Cartography	3 hrs
	811.	2312/306	Survey Control & Engineering Survey	3 hrs
	812.	2313/306	Machine Printing & Print Finishing	3 hrs
	813.	2401/306	Fashion Design	3 hrs
	814.	2402/306	Food & Beverage Control	3 hrs
	815.	2403/306	Technology of Specific Products	3 hrs
	816.	2404/306 2407/306 2411/306	Laboratory Practice & Management	3 hrs
	817.	2405/306	Computing	3 hrs
	818.	2413/305	Reactor Engineering & Control	3 hrs
	819.	2422/305	Pre-Press Equipment Maintenance & Quality Control	3 hrs
	820.	2423/305	Press Equipment Maintenance & Quality Control	3 hrs
	821.	2424/305	Post press Equipment Maintenance & Quality Control	3 hrs
	822.	2426/103B 2427/103	Applied Sciences (Microbiology & Parasitology, Anatomy & Physiology)	3 hrs
	823.	2502/105	Plant Maintenance	3 hrs
	824.	2502/305	Power Production Systems	3 hrs
	825.	2525/204 2921/204	Farm Management and research Methodology	3 hrs
	826.	2525/304 2921/304	Sustainable Agriculture	3 hrs
	827.	2910/204	Farm Management and Agricultural Extension	3 hrs
	828.	2916/105	Legal Aspects of Nutrition, HIV & AIDS, Nutrition in HIV & AIDS, Maternal and Child Health	3 hrs
	829.	2916/205	Introduction to Primary Health Care and Principles of Nutrition and Behaviour	3 hrs
	830.	2916/305	Community Partnership Skills, Nutrition Assessment and Surveillance and Nutrition in Emergency	3 hrs
<b>11.30 A.M. DAY 9 THURSDAY 22<sup>nd</sup> NOVEMBER, 2018</b>				
<b>2<sup>ND</sup> MORNING SESSION</b>				
<b>THURSDAY</b>  <b>22<sup>nd</sup> NOVEMBER 2018</b>  <b>2<sup>ND</sup> MORNING SESSION</b>  <b>11.30 A.M.</b>  <b>DAY 9</b>	831.	0401/211A	Pattern Drafting Practical	4 hrs
	832.	0504/201	Marine Engineering II	2 ½ hrs
	833.	1080/217	Production Engineering I	3 hrs
	834.	1080/219	Plant Engineering I	3 hrs
	835.	1080/221	Automobile & Prime Movers Engineering I	3 hrs
	836.	1401/312	Pattern Drafting and Grading Practical	4 hrs
	837.	1402/312	Food & Beverage Control Theory	3 hrs
	838.	1403/312	Food Microbiology & Food Chemistry	3 hrs
	839.	1404/312	Leather Production	3 hrs
	840.	1405/312	Animal Production	3 hrs
	841.	1408/312	Physics Techniques	3 hrs
	842.	1409/312	Fish Handling, Processing & Preservation	3 hrs
	843.	1411/312	Printing Science	3 hrs
	844.	1412/312	Haematology & ImmunoHaematology	3 hrs
	845.	1601/104 1602/104	Technical Drawing	3 hrs
	846.	1704/104	Carpentry and Construction Materials I	3 hrs
	847.	1704/204	Building Services, Joinery & Construction Materials II	3 hrs
	848.	1819/105	Food & Beverage Service and Home Nursing theory	3hrs
	849.	1901/104	Geodynamics, Stratigraphy and Sedimentology	3 hrs
	850.	1901/204	Workshop Technology & Practice	3 hrs
	851.	2418/306	Environment, Mon and Statuary Sculpture	3 hrs
	852.	2425/104	Agricultural Engineering I	3 hrs
	853.	2425/204	Agricultural Engineering II	3 hrs
	854.	2425/304	Agricultural Engineering III & Environmental Management	3 hrs
	855.	2426/203B 2427/204	Applied Science (Physical Science and Biochemistry)	3 hrs
	856.	2429/306A	Pharmacology & Therapeutics Theory	3 hrs

DATE		PAPER CODE	PAPER NAME	DURATION
	857.	2521/105 2601/106 2602/106 2603/106	Electrical Measurement and Analogue Electronics	3 hrs
	858.	3080/206	Building Economics	3 hrs
	859.	3081/206 3083/206 3084/206	Estimating and Costing	3 hrs
	860.	3082/206	Costing & Measurement. of Field Works	3 hrs
	861.	3301/216	Geodesy	3 hrs
	862.	3302/216	Photogrammetric Mapping	3 hrs
	863.	3303/216	Thematic & Special Purpose Mapping	3 hrs
	864.	4080/206	Instrumentation II	3 hrs
	865.	4082/206	Microbiology II	3 hrs
	866.	4089/206	Food Ingredients, Pest Control & Entomology	3 hrs
<b>8.00 A.M. DAY 10 FRIDAY 23<sup>rd</sup> NOVEMBER 2018</b>				
<b>1<sup>ST</sup> MORNING SESSION</b>				
<b>FRIDAY 23<sup>rd</sup> NOVEMBER 2018  1<sup>ST</sup> MORNING SESSION  8.00 A.M.  DAY 10</b>	867.	0501/102 0516/104	Metal Processing Technology Theory Level I	2 hrs
	868.	0501/202	Metal Processing Technology Theory Level II	2 hrs
	869.	0503/102 0513/104	Motor Vehicle Technology Theory Level I	2 hrs
	870.	0503/202 0513/204	Motor Vehicle Technology Theory Level II	
	871.	0505/102	Refrigeration & Air Conditioning Theory Level I	2 hrs
	872.	0505/202	Refrigeration & Air Conditioning Theory Level II	2 hrs
	873.	0521/104 0601/102	Electrical & Electronics Technology Theory Level I	2 hrs
	874.	0521/204 0601/202	Electrical and Electronics Trade Theory II	2 hrs
	875.	0531/104 0701/102	Appropriate Carpentry Trade Theory Level I	2 hrs
	876.	0531/204 0701/202	Appropriate Carpentry Trade Theory Level II	2 hrs
	877.	0534/104 0702/102	Building Technology Theory Level I	2 hrs
	878.	0534/204 0702/202	Building Technology Theory	2 hrs
	879.	0541/104 0801/102	Fashion Design & Garment Making Theory Level I	2 hrs
	880.	0541/204 0801/202	Fashion Design and Garment Making Trade Theory Level II	2 hrs
	881.	0602/102 0920/104	Information Communication Technology Theory Level I	2 hrs
	882.	0602/202 0920/204	ICT Trade Theory Level II	2 hrs
	883.	0901/102	Hair Dressing & Beauty Therapy Theory Level I	2 hrs
	884.	0901/202	Hair Dressing & Beauty Therapy Theory Level II	2 hrs
	885.	0902/102	Food Processing Technology I Theory	2 hrs
	886.	0902/202	Food Processing Technology II Theory	2 hrs
	887.	0903/102	Leather Technology I Theory	2 hrs
	888.	0903/202	Leatherwork Technology Theory Level II	2 hrs
	889.	0904/102	Agri-business Trade Theory I	2 hrs
	890.	0904/202	Agri-business Trade Theory II	2 hrs
	891.	1080/216	Fluid Mechanics	3 hrs
	892.	2080/206 2083/206	Machines & Utilization	3 hrs
	893.	2082/206	Communication Systems	3 hrs
	894.	2101/305	Materials & Metallurgy	3 hrs
	895.	2102/305	Plant Electrical & Instrumentation	3 hrs
	896.	2103/305	Engine & Auto Elec. Tech & Practical	3 hrs
	897.	2104/305	Engine & Vehicle Technology(Theory & Practice)	3 hrs
	898.	2105/305	Tractors & Power Units Post Harvest Technology	3 hrs
	899.	2106/305	Material Science & Metallurgy	3 hrs

DATE		PAPER CODE	PAPER NAME	DURATION
	900.	2107/305	Airframe Technology	3 hrs
	901.	2108/305	Material Science & Metallurgy	3 hrs
	902.	2413/306	Unit Operations	3 hrs
	903.	2419/306	Accommodation Operations & Property Management	3 hrs
	904.	2422/306	Text Generation	3 hrs
	905.	2423/306	Machine Printing	3 hrs
	906.	2424/306	Box, Carton Manufacture and Packing	3 hrs
	907.	2429/306B	Pharmacology & Therapeutics Practical	4 hrs
	908.	2502/205	Plant Electrical and Instrumentation	3 hrs
	909.	2913/106	Applied Science and Microbiology Practical	4 hrs
	910.	2914/106	Applied Biology Practical I	4 hrs
	911.	2915/106	Analytical Chemistry Practical I	4 hrs
	912.	3081/205 3082/205 3083/205	Hydraulics, Geology & Soil Mechanics	3 hrs
<b>11.30 A.M. DAY 10 FRIDAY 23<sup>rd</sup> NOVEMBER 2018</b>				
<b>2<sup>ND</sup> MORNING SESSION</b>				
<b>FRIDAY 23<sup>rd</sup> NOVEMBER 2018  2<sup>ND</sup> MORNING SESSION  11.30 A.M.  DAY 10</b>	913.	2203/302	Data Communication	3 hrs
	914.	2204/302	Machines & Utilization	3 hrs
	915.	2205/302	Data Communication	3 hrs
	916.	2208/304	Clinical Engineering Paper II	3 hrs
	917.	2301/305 2302/305	Construction Technology, Materials, Measurement, & Costing	3 hrs
	918.	2304/305	Environment Science	3 hrs
	919.	2305/305	Measurement, Estimating & Costing	3 hrs
	920.	2306/305	Building Economics Construction Law, Estimating & Costing	3 hrs
	921.	2307/305	Measurement, Estimating & Costing	3 hrs
	922.	2308/305	Highway Engineering Construction	3 hrs
	923.	2309/305	History of Architecture	3 hrs
	924.	2310/305	Remote Sensing	3 hrs
	925.	2311/305	Special Purposes Cart. & Cart. Rep.	3 hrs
	926.	2312/305	Cadastral Surveying & Land Law	3 hrs
	927.	2313/305	Photomechanical Processes & Print Sci.	3 hrs
	928.	2402/305	Principles and Practice of Management	3 hrs
	929.	2403/305	Food Processing & Preservation	3 hrs
	930.	2404/305	Animal and Plant Husbandry, Pharmacology, Toxicology, Entomology and plant Pathology	3 hrs
	931.	2405/305	Elements of Accounts	3 hrs
	932.	2407/305	Medical Microbiology	3 hrs
	933.	2411/305	Instrumental Methods of Analysis	3 hrs
	934.	2416/305	Advertising & Corporate Identity Design	3 hrs
	935.	2417/305	Drawing, art & Visual Communication	3 hrs
	936.	2418/305	Art/ Factual Sculpture	3 hrs
	937.	2422/304	Graphic Reproduction	3 hrs
	938.	2423/304	Proofing & Surface Preparation	3 hrs
	939.	2424/304	Finishing Binding and Ancillary operations	3 hrs
	940.	2426/104 2427/104	Food & Beverage Production & Service	3 hrs
	941.	2427/203	Computer Applications	3 hrs
	942.	2506/107 2507/107	Aircraft Piston engines	3 hrs
	943.	2506/207	Theory of Flight	3 hrs
	944.	2506/307	Airframe Systems II and Airfield Safety III	3 hrs
	945.	2507/207	Electric Circuit Analysis	3 hrs
	946.	2507/307	Automatic Pilot System and Airfield Safety & Procedures III	3 hrs
	947.	2916/104	Diet Therapy I, Principles of Human Nutrition, Introduction to Nutrition and Dietetics, Anatomy and Physiology Theory	3 hrs
	948.	2916/204	Introduction to Microbiology, First Aid and Principles of Food Processing and Preservation	3 hrs
	949.	2916/304	Communicable and Non-Communicable Diseases and Nutrition Epidemiology	3 hrs
	950.	3084/207	Water and Waste Water Technology	3 hrs
	951.	4080/205	Instrumentation I	3 hrs
	952.	4082/205	Microbiology I	3 hrs

DATE		PAPER CODE	PAPER NAME	DURATION
	953.	4089/205	Food Microbiology	3 hrs

### 3.0 INSTRUCTION TO SUPERVISORS, TEACHERS AND CANDIDATES

- 3.1 Supervisors are asked to take all necessary steps to ensure that the following instructions are brought to the notice of the Teachers and Candidates under examination.
- 3.2 Teachers are advised to ensure that their students are carefully drilled on how to carry out the instructions given below and that candidates are aware of the penalties for irregularities or misconduct. Candidates are required to follow these instructions carefully.

### 4.0 GENERAL INSTRUCTIONS TO CANDIDATES

- 4.1 Be at your seat in the Examination Room five minutes before the time fixed for the examination in the various papers. 1st Morning sessions will normally start at 8.00 a.m. and the 2nd morning sessions will start at 11.30 a.m.
- 4.2 A candidate who arrives late will be required to give a satisfactory reason to the supervisor. Except in exceptional circumstances, a paper will not be given to any candidate who is more than half an hour late. Absolute punctuality is essential for certain papers, e.g. Shorthand.
- 4.3 If an examination paper for which you are not entered is handed to you, or if the questions indicate that a map or other material should also have been given out, speak to the supervisor at once.
- 4.4 Attend carefully to any general directions that may be given at the head of a paper, e.g. directions limiting the number of questions that should be answered.
- 4.5 Write your name, your index number as well as the name of the paper on the first page of each answer book or sheet of each set of papers you use. Thereafter, your index number must be written in clear figures in the space provided on every sheet or page of answer book.
- 4.6 Write on both sides of the paper, but do not use the margins. Begin the answer to each separate part of a question on a fresh line.
- 4.7 Write the number of the question clearly in the left-hand margin at the beginning of each answer. Do not copy the question. Be careful to use the same system of numbering as appears in the question paper. Leave a blank line after the answer to each question.
- 4.8 Write your answers with black or blue ink. You may use a fountain pen or ball point pen. Pencils should only be used for diagrams. Remember that handwriting and spelling will be taken into account. Bring mathematical and drawing instruments for subjects for which they will be needed.
- 4.9 Read the questions carefully. Much time may be wasted in writing down information that is not asked for and no marks are given for it.
- 4.10 Do not write so much upon one or two questions as to leave yourself no time to answer others which you are able to answer.
- 4.11 As soon as notice is given to stop, ARRANGE YOUR ANSWER BOOK AND SHEETS IN THE CORRECT ORDER (this is normally the order in which you answered the questions). Make sure that they all have your index number written upon them. Fasten them together at the left-hand corner and hand them UNFOLDED to the supervisor.
- 4.12 Withdrawal from the examination should have been notified to the Council before any papers of the examination are taken.

### 5.0 CAUTION TO THE CANDIDATES

- 5.1 You are not allowed to leave the examination room before the end of the period allocated to the paper except by special permission of the supervisor. NO CANDIDATE SO PERMITTED TO LEAVE MAY TAKE A QUESTION PAPER OUT OF THE EXAMINATION ROOM.
- 5.2 Do not leave a sheet of paper you have written on or your answers in such a position that another candidate can read them. You should not give or obtain unfair assistance, or attempt to do so. Whether by copying or in any other way, and your work should not show proof of such unfair assistance. No communication whatsoever in whatever manner between candidates or with outsiders is allowed during examination.
- 5.3 You are not allowed to have in your possession or in your proximity while in the examination room, any book, notes, papers or any other materials whatsoever, except the correct question paper and any materials expressly authorized by the Kenya National Examinations Council.
- 5.4 You may only use mathematical tables printed by the Kenya National Examinations Council, and these should not contain any additional notes except the printed information. If you are using a slide rulers as permitted by the Regulations it should not contain formulae or other data that may give you undue advantage over other candidates. If in doubt, check with the supervisor.
- 5.5 You must return immediately to the Supervisor any incorrect question paper given to you.



- 5.6 You must not take any used or unused writing paper out of the examination room. Any rough work must be done on the official answer paper and; if not to be submitted with the answers, must be left on the desks to be collected by the supervisor and destroyed.
- 5.7 Disorderly conduct or the causing of disturbance in or near the examination will be treated as a serious examination irregularity.
- 5.8 Note: Mobile phones are prohibited in the examination rooms and the examination centre. Any candidate caught in possession of a mobile phone will have his/her results cancelled.

## 6.0 PENALTY FOR IRREGULARITIES

- 6.1 The KNEC Act 2012 rules and regulations, offences and penalties stated in sections 27 to 40 or cases of examination irregularities will apply. Some of the highlights in these sections state that:
- 6.2 A candidate who commits an examination irregularity in any paper will have the results for the **WHOLE SUBJECT** cancelled. Such a candidate will not be entitled to a result and will be awarded result “Y” overall.
- 6.3 If there is evidence of wide-spread irregularities in any centre, the whole examination results for the whole centre will be cancelled. Any person who:-
- (a) gains access to examination material and knowingly reveals the contents, whether orally or in writing, to an unauthorized party, whether a candidate or not will violate **section 27** and the penalty will be imprisonment for a term not exceeding **ten years**, or a fine not exceeding **two million shillings** or both;
  - (b) wilfully and maliciously damages examination material will violate section 30 and the penalty will be imprisonment for a term not exceeding two years or a fine not exceeding five million shillings or both;
  - (c) is not registered to take a particular Council’s examination but, with intent to impersonate, presents or attempts to present himself to take the part of an enrolled candidate, shall be guilty of an offence and liable to imprisonment for a term not exceeding one year or a fine not exceeding two million shillings or both and may be prohibited from taking an examination conducted by or on behalf of the Council for a period of three years.

Ag. CHIEF EXECUTIVE OFFICER