



THE KENYA NATIONAL EXAMINATIONS COUNCIL

KNEC/GEN/TD/PSE/TEC/TT/19

2019 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 2019

2.1 PRACTICAL & PROJECT PAPERS

DATE		PAPER CODE	PAPER NAME	DURATION
PLANNING THURSDAY 24TH OCTOBER, 2019				
ONE DAY ONLY				
PLANNING THURSDAY 24TH OCTOBER 2019 ONE DAY ONLY	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 Practice	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
START OF PRACTICAL PAPERS MONDAY 28TH OCTOBER, 2019				
	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
START OF PRACTICAL PAPERS MONDAY 28TH OCTOBER 2019	31.	0501/103	Metal Processing Technology Practice I	9 hrs
	32.	0501/203	Metal Processing Technology Practice II	12 hrs
	33.	0503/103	Motor Vehicle Practice I	16 hrs
	34.	0503/203	Motor Vehicle Practice 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.	0601/103	Electrical & Electronics Technology Practice I	9 hrs
	42.	0601/203	Electrical and Electronics Technology Practice II	8 hrs
	43.	0701/103	Appropriate Carpentry & Joinery Practice I	9 hrs
	44.	0701/203	Appropriate Carpentry & Joinery Practice II	9 hrs
	45.	0702/103	Building Technology Practice I	9 hrs
	46.	0702/203	Building Technology Practice II	9 hrs
	47.	0801/103	Fashion Design & Garment Making Practice I	7 hrs
	48.	0801/203	Fashion Design & Garment Making Practice II	7 hrs
	49.	0602/203 0920/202	ICT Trade Practice II	6 hrs
	50.	0901/103	Hair Dressing and Beauty Therapy Practice I	6 hrs
	51.	0901/203	Hair Dressing and Beauty Therapy Practice II	6 hrs
	52.	0902/103	Food Processing Technology Practice I	6 hrs
	53.	0902/203	Food Processing Technology Practice II	6 hrs
	54.	0903/103	Leather Technology Practice I	12 hrs
	55.	0903/203	Leather Technology Practice II	12 hrs
	56.	0904/103	Agribusiness Practice I	9 hrs
	57.	0904/203	Agribusiness Practice II	9 hrs
	58.	0920/102 0602/103	Information Communications Technology Practice 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
	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

DATE		PAPER CODE	PAPER NAME	DURATION
LAST DAY OF PRACTICAL PAPERS FRIDAY 8 TH NOVEMBER 2019	91.	1509/106	Construction Plant Trade Practice I	8 hrs
	92.	1509/206	Construction Plant Trade Practice II	9 hrs
	93.	1521/104 1601/106 1602/106	Trade Practice I	8 hrs
	94.	1521/206 1601/206	Trade Practice II	8 hrs
	95.	1522/206 1602/206	Telecom Systems and Fault Diagnosis	12 hrs
	96.	1704/106	Building Construction Practice	15 hrs
	97.	1704/205	Building Construction Practice	18 hrs
	98.	1801/105	Fabric Colouration Practical	4 hrs
	99.	1801/203	Garment Making Practical (For Women)	7 hrs
	100.	1801/204	Garment Making Practical (For Men)	7 hrs
	101.	1801/205	Batik and Embroidery Practical	4 hrs
	102.	1802/104 1819/104	Food and Beverage Production Practical	6 hrs
	103.	1802/204	Food and Beverage Service and Sales Practical	3 hrs
	104.	1819/106	Food & Beverage Service Practical	3 hrs
	105.	1819/203	House Keeping Practical	5 hrs
	106.	1819/204	Laundry Practical	5 hrs
	107.	1903/106	Food Processing and Preservation I Practical	6 hrs
	108.	1903/205	Food Processing and Preservation II Practical	6 hrs
	109.	2401/302	Garment Cutting and Making Practical	6 hrs
	110.	2402/301 2419/301	Food & Beverage Management Practice	6 hrs
	111.	2406/101	House Keeping Management Practice	5 hrs
	112.	2406/201	Laundry and Dry Cleaning Practice	5 hrs
	113.	2419/305	Accommodation Management Practice	4 hrs
	114.	2420/201A	Bread Making Practice II	8 hrs
	115.	2420/201B	Flour & Confectionery Practice II	6 hrs
	116.	2420/301	Bread Making & Flour Confectionery Practice III	12 hrs
	117.	25041/106	Navigation safety and ship maintenance practical	12 hrs
	118.	2801/105	Housekeeping Practice	4 hrs
	119.	2801/106	Laundry Practice	4 hrs
	120.	2802/105 2819/105/1	Food and Beverage Production Practical	6 hrs
	121.	2802/106 2819/105/2	Food and Beverage Service Practical	6 hrs
	122.	2802/205 2819/205	Food Production Management Practice	5 hrs
	123.	2802/305 2819/305	Food and Beverage Service and Sales Management Practice	6 hrs
	124.	2803/105	Clothing Construction I Practical	6 hrs
	125.	2803/205	Clothing Construction II Practical	6 hrs
	126.	2803/305	Clothing Construction III Practical	6 hrs
	127.	2819/106	Accommodation Operations Practice	7 hrs
	128.	2819/203	Accommodation Operations Management I Practice (Laundry)	4 hrs
	129.	2819/302	Accommodation Operations Management II Practice (House Keeping)	4 hrs
	130.	2830/105	Spinning Machinery and Maintenance Practical	6 hrs
	131.	2830/205	Weaving and Knitting Machinery practical	6 hrs
132.	2830/305	Quality Control, Analysis and Testing Practical	6 hrs	
133.	2913/206	Food Processing I Practical	6 hrs	
134.	2913/306	Food Processing II Practical	6 hrs	
135.	2920/105	Baking I Practice (Bread)	6 hrs	
136.	2920/106	Baking I Practice (Confectionery)	6 hrs	
137.	2920/204	Baking II Practice (Bread)	6 hrs	
138.	2920/205	Baking II Practice (Confectionery)	6 hrs	
139.	2920/305	Baking III Practice (Bread)	8 hrs	
140.	2920/306	Baking III Practice (Confectionery)	8 hrs	

WRITTEN PAPERS

DATE		PAPER CODE	PAPER NAME	DURATION
8.00 A.M. DAY 1 MONDAY 11TH NOVEMBER, 2019				
1ST MORNING SESSION				
MONDAY 11TH NOVEMBER 2019 1ST MORNING SESSION 8.00 A.M. DAY 1	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.	1314/201	Water Resources II	3 hrs
	6.	1501/101 1503/101 1508/101 1509/101 1601/101 1602/101 1704/101	ICT and Entrepreneurship	3 hrs
	7.	1501/201 1503/201 1508/201 1509/201 1521/201 1522/201 1601/201 1602/201 1704/201	Communication Skills	3 hrs
	8.	1504/101	Entrepreneurship & Communication Technology	3 hrs
	9.	1504/201	Ship Construction & Stability	3 hrs
	10.	15041/101 15051/101	Entrepreneurship and Communication Technology	3 hrs
	11.	1505/101	Entrepreneurship & Communication Technology	3 hrs
	12.	1505/201	Marine Engineering & Management	3 hrs
	13.	15041/201 15051/201	Communication skills and Fundamentals of Management	3 hrs
	14.	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
	15.	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
	16.	1521/101 1522/101	ICT Technical Drawing and Entrepreneurship	3 hrs

DATE		PAPER CODE	PAPER NAME	DURATION
	17.			
11.30 A.M DAY 1 MONDAY 11TH NOVEMBER, 2019				
2nd MORNING SESSION				
MONDAY 11TH NOVEMBER 2019	18.	1080/211	Mathematics	3 hrs
	19.	1102/311 1103/311 1105/311 1106/311	Mathematics & Engineering Science	3 hrs
	20.	1202/311	Mathematics	3 hrs
	21.	1204/311	Mathematics	3 hrs
	22.	1301/311 1304/311 1305/311 1309/311	Mathematics	3 hrs
	23.	1308/311	Mathematics	3 hrs
	24.	1402/311	Food & Beverage Production Theory	3 hrs
	25.	1403/311	Food Engineering	3 hrs
	26.	1404/311	Principles of Leather Manufacture	3 hrs
	27.	1405/311	Crop Production	3 hrs
	28.	1408/311	Laboratory Practice	3 hrs
	29.	1409/311	Fishing Technology	3 hrs
	30.	1410/201	Social Development Theory Methods, Policy & Admin.	3 hrs
	31.	1411/311	Introduction to Printing Technology	3 hrs
	32.	1412/311	Immunology & Medical Microbiology	3 hrs
	33.	2080/201 2081/201 2082/201 2083/201	Mathematics	3 hrs
	34.	2401/301	Pattern Drafting & Grading Practical	4 hrs
	35.	2425/101	Principles of Crop Production I & Soil Science	3 hrs
	36.	2425/201	Principles of Crop Production II & Soil Fertility & Plant Nutrition	3 hrs
	37.	2425/301	Crop Production III	3 hrs
	38.	2426/101 2427/101A	Nutrition, Community Health & Diet Therapy I Practice	3 hrs
	39.	2426/201 2427/201A	Nutrition & Diet Therapy II Practice	3 hrs
	40.	2426/301 2427/301	Diet Therapy III Practice & Theory	3 hrs
	41.	3084/201	Soil Mechanics & Foundation Engineering	3 hrs
42.	3301/214	Plane Surveying	3 hrs	
43.	3302/214	Image Processing & Interpretation	3 hrs	
44.	3303/214	Computer Assisted Cartography	3 hrs	
8.00 A.M. DAY 2 TUESDAY 12TH NOVEMBER' 2019				
1st MORNING SESSION				
TUESDAY	45.	2301/303 2302/303	Structures	3 hrs
	46.	2303/303	Hydrological Processes	3 hrs
	47.	2304/303	Hydrogeology	3 hrs
	48.	2305/303 2307/303 2308/303	Structures	3 hrs
	49.	2311/303 2312/303	Photogrammetry and Remote Sensing	3 hrs 3 hrs
	50.	2313/303	Cartography, Photogrammetry & Remote Sensing	3 hrs
	51.	2402/302 2419/302	Food & Beverage Production Theory	3 hrs
	52.	2403/303	Food Analysis	3 hrs
	53.	2406/302	Communication Skills	3 hrs

DATE		PAPER CODE	PAPER NAME	DURATION
12 TH NOVEMBER 2019 1 st MORNING SESSION 8.00 A.M. DAY 2	54.	2416/301 2417/301 2418/301	Art Studio Organization & Management	3 hrs
	55.	2422/301 2423/301 2424/301	Industrial Organization and Management	3 hrs
	56.	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
	57.	2501/201 2502/201 2503/201 2508/201 2509/201	Industrial Organisation and Management	3 hrs
	58.	2501/301 2502/301 2503/301 2508/301 2509/301	Computer Aided Drawing	3 hrs
	59.	2504/101	Entrepreneurship and Communication Technology	3 hrs
	60.	25041/101 25051/101	Entrepreneurship and Communication Technology	3 hrs
	61.	2505/101	Entrepreneurship and Communication Skills	3 hrs
	62.	2506/101 2507/101	Entrepreneurship & Communication Technology	3 hrs
	63.	2521/101	ICT, Entrepreneurship, Life and Communication Skills	3 hrs
	64.	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
	65.	2914/201 2915/201	Research Methods	3 hrs
	66.	2914/301	Industrial Organization and Management	3 hrs
	67.	2915/301	Industrial Organization and Management	3 hrs

DATE		PAPER CODE	PAPER NAME	DURATION
11.30 A.M. DAY 2, TUESDAY 12TH NOVEMBER 2019				
2nd MORNING SESSION				
TUESDAY 12TH NOVEMBER 2019 2nd MORNING SESSION 11.30 A.M. DAY 2	68.	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
	69.	2205/301	Systems analysis & Design	3 hrs
	70.	2207/302	Telecommunication Principles	3 hrs
	71.	2404/301	Taxonomy, Ecology, Soil-Study Herbarium, Aquarium and Vivarium	3 hrs
	72.	2407/301	Parasitology & Histological Techn.	3 hrs
	73.	2411/301	Physical Chemistry	3 hrs
	74.	2428/101	Social Work, Theory Practice & Community Development	3 hrs
	75.	2428/201	Resource Mobilization, Fund Raising & Project Management	3 hrs
	76.	2428/301	Social Psychology & Human Development	3 hrs
	77.	2428/304	Transformation & Social Marketing	3 hrs
	78.	2429/301	Social and Administrative Pharmacy	3 hrs
	79.	2504/201	Chart Work Practices	3 hrs
	80.	2504/302	Ship Stability and Handling	3 hrs
	81.	25041/201	Chart work	3 hrs
	82.	2505/201	Ship Construction & Naval Architecture II	3 hrs
	83.	2505/301	Marine Organisation and Management	3 hrs
	84.	25051/201	Ship Stability	3 hrs
	85.	25041/301 25051/301	Marine Organisation and Management	3 hrs
	86.	2506/201	Aircraft Propeller Systems	3 hrs
	87.	2506/301 2507/301	Industrial Organisation and Management	3 hrs
	88.	2507/201	Aircraft Instruments and Measurement Systems	3 hrs
	89.	2521/202	Industrial Control Systems	3 hrs
	90.	2521/301 2601/301 2602/301 2603/301	Industrial management and Engineering Contracts	3 hrs
	91.	2528/201 2922/201	Earth Science and Environmental Information Systems	3 hrs
	92.	2528/301 2922/301	Atmospheric Science	3 hrs
	93.	2601/201 2602/201 2603/201	Control Systems and Programmable Logic Controllers	3 hrs
	94.	2705/204 2707/204	Measurement of Building and Civil Engineering Works, Estimating and Costing I	3 hrs
	95.	2709/205	Architectural Landscaping, Graphic design I Architectural Technology	4 hrs

DATE		PAPER CODE	PAPER NAME	DURATION
		96. 2710/205	History of Architecture	3 hrs
		97. 2710/305	Environmental Planning and Management	3 hrs
		98. 2802/201	Hospitality Accounting and Law	3 hrs
		99. 2802/301 2920/301	Human Relations	3 hrs
		100. 2803/201	Industrial Organization Management I & Quality Control I	3 hrs
		101. 2803/301	Industrial Organization Management II & Quality Control II	3 hrs
		102. 2805/201	Legal Instruments for Child Protection	3 hrs
		103. 2805/303	Resource Mobilization and Project Management	3 hrs
		104. 2830/201	Weaving and Knitting Machinery practical	3 hrs
		105. 2830/301	Textile Preparation and Finishing Processes	3 hrs
		106. 2901/202	Research methods	3 hrs
		107. 2901/302	Project Management	3 hrs
		108. 2910/202	Crop enterprise management II	3 hrs
		109. 2910/301	Crop enterprise management III	3 hrs
		110. 2913/201	Food Chemistry I and Food Microbiology I	3 hrs
		111. 2913/302	Food Chemistry II & Food Microbiology II	3 hrs
		112. 2916/205	Introduction to Primary Health Care and Principles of Nutrition and Behaviour	3 hrs
		113. 2916/305	Community Partnership Skills, Nutrition Assessment and Surveillance and Nutrition in Emergency	3 hrs
		114. 3402/201	Trends and Issues in Education and Training	3 hrs
8.00 A.M. DAY 3, WEDNESDAY, 13TH NOVEMBER 2019				
1ST MORNING SESSION				
WEDNESDAY		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
13TH NOVEMBER 2019	115.			
1ST MORNING SESSION				
8.00 A.M.				
DAY 3				
		116. 0504/102	Technical Drawing & Engineering Science	2 ½ hrs
		117. 0504/202	Technical Drawing & Engineering Science	2 ½ hrs
		118. 0504/1/102	Mathematics I and Applied Science I	2 ½ hrs
		119. 0504/1/202	Mathematics II and Applied Science II	2 ½ hrs
		120. 1080/213	Strength & Properties of Materials	3 hrs
		121. 1102/312 1103/312 1105/312 1106/312	Technical Drawing	3 hrs
		122. 1202/315	Electrical Maintenance & Fault Diagnosis	3 hrs
		123. 1204/312	Electronic Instruments & Fault Diagnosis (Theory)	3 hrs
		124. 1301/312 1304/312 1305/312	Technical Drawing	3 hrs
		125. 1308/312	Survey Drawing	3 hrs
		126. 1309/312	Soil Mechanics & Engineering Materials	3 hrs
		127. 1314/102	Water and Waste Water I	3 hrs
		128. 1314/202	Water and Waste Water II	3 hrs
		129. 1501/104 1508/104 1509/104	Technical Drawing I	3 hrs
		130. 1501/204 1503/204 1508/204 1509/204	Technical Drawing II	3 hrs

DATE		PAPER CODE	PAPER NAME	DURATION	
		131.	1503/104	Technical Drawing I	3 hrs
		132.	1504/104	Cargo Work	3 hrs
		133.	15041/104	Seamanship	3 hrs
		134.	1505/104	Technical Drawing & Workshop Technology	3 hrs
		135.	1505/204	Workshop Technology	3 hrs
		136.	15051/104	Marine Engineering Knowledge I	3 hrs
		137.	15051/204	Marine Engineering Knowledge II	3 hrs
		138.	1507/112 1907/102 1802/102 1819/102	Food Science & Nutrition	3hrs
		139.	1507/212B 1907/202	Baking Control	3 hrs
		140.	1521/102 1522/102	Mathematics & Trade Science I	3 hrs
		141.	1521/204 1601/204	Micro-Electronics, Electrical Principles II, Electrical Maintenance And Fault Diagnosis	3 hrs
		142.	1522/204 1602/204	Micro Electronics, Electrical Principles and Fault Diagnosis	3 hrs
		143.	1601/102 1602/102	Applied Science, Electrical Principles I and Electronics	3 hrs
		144.	1801/102	Art, Fashion Design & Sketching and Pattern Drafting I	4hrs
		145.	1801/202	Garment Cutting and Making Theory, Pattern Drafting II and Grading	4 hrs
		146.	1802/202	Food and Beverage Control and Catering Premises & Equip	3 hrs
		147.	1804/102	Fundamentals in Childcare and Protection.	3 hrs
		148.	1901/102	Earth and Physical Sciences	3 hrs
		149.	1901/202	Exploration Geophysics & Seismic Techniques	3 hrs
		150.	1903/102	Applied Science and Laboratory Practice	3 hrs
		151.	1903/202	Food Chemistry and Food Microbiology	3 hrs
		152.	1904/102	Principles of Laboratory & Workshop Practice I	3 hrs
		153.	1904/202	Principles Laboratory & Workshop Practice II	3 hrs
		154.	1905/102	Applied Physical Sciences, Applied Biological Sciences, Anatomy and Physiology	3 hrs
		155.	1905/202	Community Diagnosis & Mobilization, Introduction to Nutrition Surveillance and Nutrition in Emergency	3 hrs
		156.	2209/201	System Analysis and Design	3 hrs
		157.	2209/301	Quantitative Methods	3 hrs
		158.	2902/303	Personal Development, Ethical and Legal Issues	3 hrs
		159.	2902-09/105	Personal development I and Life skills	3 hrs
		160.	2902-09/202	Group Counselling	3 hrs
		161.	2903/303	Personal Development, Professional, Ethical and Legal Issues	3 hrs
		162.	2904/303	Personal and Professional Development, Ethical and Legal Issues	3 hrs
		163.	2905/303	Personal Development and Professional Issues	3 hrs
		164.	2906/303	Personal Development, Family Counselling and Effective Parenting.	3 hrs
		165.	2907/303	Personal and Professional Development	3 hrs
		166.	2908/303	Advocacy For Persons With Special Needs and Disabilities	3 hrs
		167.	2909/303	Personal Development and Spiritual Formation	3 hrs
		168.	2914/206	Applied Biology Practical II	4 hrs
11.30 A.M. DAY 3 WEDNESDAY 13TH NOVEMBER, 2019					
2ND MORNING SESSION					
WEDNESDAY		2101/301 2102/301 2103/301 2104/301 2105/301 2106/301 2107/301 2108/301	Mathematics	3 hrs	
13TH NOVEMBER 2019	169.				
2ND MORNING SESSION		2201/301 2203/301 2204/301 2206/301	Mathematics	3 hrs	
11.30 A.M.	170.				
DAY 3		2207/301 2208/301	Mathematics Mathematics	3 hrs 3 hrs	
	171.				
	172.				

DATE		PAPER CODE	PAPER NAME	DURATION
	173.	2209/101	Introduction to Computers & Principles of Operating Systems	3 hrs
	174.	2413/301	Mathematics	3 hrs
	175.	2429/304B	Pharmaceutical Chemistry Practical	4 hrs
	176.	2501/103 2502/103 2503/103 2508/103 2509/103	Engineering Mathematics I	3 hrs
	177.	2501/203 2502/203 2503/203 2508/203 2509/203	Engineering Mathematics II	3 hrs
	178.	2501/303 2502/303 2503/303 2508/303 2509/303	Engineering Mathematics III	3 hrs
	179.	2504/103 2505/103	Mathematics I & Applied Science	3 hrs
	180.	2504/203 2505/203	Engineering Mathematics I	3 hrs
	181.	2504/303	Ship Power Plant	3 hrs
	182.	2504/1/103 2505/1/103	Mathematics I and Applied science	3 hrs
	183.	2504/1/203	Mathematics II	3 hrs
	184.	2505/1/203	Engineering Mathematics II	3 hrs
	185.	2504/1/303	Ship board operations and marine environment	3 hrs
	186.	2505/303	Engineering Mathematics II	3 hrs
	187.	2505/1/303	Engineering Mathematics III	3 hrs
	188.	2506/103 2507/103	Engineering Mathematics I & Engineering Science I	3 hrs
	189.	2506/203 2507/203	Engineering Mathematics II	3 hrs
	190.	2506/303 2507/303	Engineering Mathematics III	3 hrs
	191.	2525/102 2910/102 2921/102	Applied Science I	3 hrs
	192.	2525/201 2921/201	Applied Science II	3 hrs
	193.	2525/305 2921/305	Natural Resource Management	3 hrs
	194.	2528/102 2922/102	Environmental Chemistry & Applied Science	3 hrs
	195.	2528/202 2922/202	Environmental Pollution Control, Health and Safety	3 hrs
	196.	2528/302 2922/302	Environmental waste Management EIA and Environmental Law	3 hrs
	197.	2830/102	Mathematics I, Physics and Technical Drawing	3 hrs
	198.	2830/202	Mathematics II	3 hrs
	199.	2830/302	Dyeing and Printing technology	3 hrs
	200.	2901/102	Applied Mathematics and Economics	3 hrs
	201.	2901/201	Applied Mathematics	3 hrs
	202.	2901/301	Financial Accounting	3 hrs
	203.	2910/201	Applied Science II	3 hrs
	204.	2910/302	Agricultural Biochemistry and Agro-processing & value addition	3 hrs
	205.	2913/102	Mathematics and Applied Science	3 hrs
	206.	2913/202	Food Analysis and Quality Assurance	3 hrs
	207.	2913/304	Food Analysis & Instrumentation	3 hrs
	208.	2914/102 2915/102	Mathematics and Applied Science	3 hrs

DATE		PAPER CODE	PAPER NAME	DURATION
	209.	2915/202	Industrial Chemistry I and Instrumental Methods of Analysis I	3 hrs
	210.	2914/302	Entomology, Pharmacology and Toxicology	3 hrs
	211.	2915/302	Instrumental Methods II and Biochemistry	3 hrs
	212.	3402/101	Principles and Techniques of Education Management	3 hrs
	213.	4080/203	Organic Chemistry	3 hrs
	214.	4082/203	Pharmacology & Toxicology I	3 hrs
	215.	4089/203	Specific Products Technology	3 hrs
8.00 A.M. DAY 4 THURSDAY 14TH NOVEMBER, 2019				
1ST MORNING SESSION				
THURSDAY 14TH NOVEMBER 2019 1ST MORNING SESSION 8.00 A.M. DAY 4	216.	0101/213	Trade Theory	2½ hrs
	217.	0103/213	Trade Theory	2½ hrs
	218.	0105/213	Trade Theory	2½ hrs
	219.	0106/213	Trade Theory	2½ hrs
	220.	0202/213	Trade Theory	2½ hrs
	221.	0301/213	Trade Theory	2½ hrs
	222.	0302/213	Trade Theory	2½ hrs
	223.	0304/213	Trade Theory	2½ hrs
	224.	0305/213	Trade Theory	2½ hrs
	225.	0401/213	Trade Theory	2½ hrs
	226.	0402/213	Trade Theory	2½ hrs
	227.	0404/213	Trade Theory	2½ hrs
	228.	0405/213	Trade Theory	2½ hrs
	229.	0501/102	Metal Processing Technology Theory I	2 hrs
	230.	0501/202	Metal Processing Technology Theory II	2 hrs
	231.	0503/102	Motor Vehicle Technology Theory I	2 hrs
	232.	0503/202	Motor Vehicle Technology Theory II	2 hrs
	233.	0504/103	Seamanship & Environment Protection	2 ½ hrs
	234.	0504/203	Seamanship & Cargo II	2 ½ hrs
	235.	05041/103	Seamanship and Boat Handling Practices	2 ½ hrs
	236.	05041/203	Cargo Handling and Stowage	2 ½ hrs
	237.	0505/102	Refrigeration & Air Conditioning Theory I	2 hrs
	238.	0505/202	Refrigeration & Air Conditioning Theory II	2 hrs
	239.	0601/102	Electrical & Electronics Technology Theory I	2 hrs
	240.	0601/202	Electrical and Electronics Trade Theory II	2 hrs
	241.	0701/102	Appropriate Carpentry Trade Theory I	2 hrs
	242.	0701/202	Appropriate Carpentry Trade Theory II	2 hrs
	243.	0702/102	Building Technology Theory I	2 hrs
	244.	0702/202	Building Technology Theory	2 hrs
	245.	0801/102	Fashion Design & Garment Making Theory I	2 hrs
	246.	0801/202	Fashion Design and Garment Making Trade Theory II	2 hrs
	247.	0602/102 0920/104	Information Communication Technology Theory I	2 hrs
248.	0602/202 0920/204	ICT Trade Theory II	2 hrs	
249.	0901/102	Hair Dressing & Beauty Therapy Theory I	2 hrs	
250.	0901/202	Hair Dressing & Beauty Therapy Theory II	2 hrs	
251.	0902/102	Food Processing Technology I Theory	2 hrs	
252.	0902/202	Food Processing Technology II Theory	2 hrs	
253.	0903/102	Leather Technology I Theory	2 hrs	
254.	0903/202	Leatherwork Technology Theory II	2 hrs	
255.	0904/102	Agri-business Trade Theory I	2 hrs	
256.	0904/202	Agri-business Trade Theory II	2 hrs	
257.	1080/216	Fluid Mechanics`	3 hrs	
258.	2080/206 2083/206	Machines & Utilization	3 hrs	
259.	2082/206	Communication Systems	3 hrs	

DATE		PAPER CODE	PAPER NAME	DURATION
	260.	2101/305	Materials & Metallurgy	3 hrs
	261.	2102/305	Plant Electrical & Instrumentation	3 hrs
	262.	2103/305	Engine & Auto Elec. Tech & Practical	3 hrs
	263.	2104/305	Engine & Vehicle Technology(Theory & Practice)	3 hrs
	264.	2105/305	Tractors & Power Units Post Harvest Technology	3 hrs
	265.	2106/305	Material Science & Metallurgy	3 hrs
	266.	2107/305	Airframe Technology	3 hrs
	267.	2108/305	Material Science & Metallurgy	3 hrs
	268.	2413/306	Unit Operations	3 hrs
	269.	2419/306	Accommodation Operations & Property Management	3 hrs
	270.	2422/306	Text Generation	3 hrs
	271.	2423/306	Machine Printing	3 hrs
	272.	2424/306	Box, Carton Manufacture and Packing	3 hrs
	273.	2429/306B	Pharmacology& Therapeutics Practical	4 hrs
	274.	2502/205	Plant Electrical and Instrumentation	3 hrs
	275.	2913/103	Laboratory and Workshop Practice I	3 hrs
	276.	2914/106	Applied Biology Practical I	4 hrs
	277.	2914/202	Taxonomy, Anatomy and Physiology	3 hrs
	278.	2915/304	Organic and inorganic Chemistry III	3 hrs
	279.	3081/205 3082/205 3083/205	Hydraulics, Geology & Soil Mechanics	3 hrs
	280.	3081/205 3082/205 3083/205	Hydraulics, Geology & Soil Mechanics	3 hrs
11.30 A.M. DAY 4 THURSDAY 14TH NOVEMBER, 2019				
2ND MORNING SESSION				
THURSDAY 14TH NOVEMBER 2019 2ND MORNING SESSION 11.30 A.M. DAY 4	281.	1102/314	Mechanical Engineering Trade Theory	3 hrs
	282.	1103/314	Motor Vehicle Trade Theory	3 hrs
	283.	1105/314	Agricultural Engineering Trade Theory	3 hrs
	284.	1106/314	Fabrication and Welding Trade Theory	3 hrs
	285.	1301/314	Carpentry and Joinery Craft Theory	3 hrs
	286.	1304/314	Masonry Craft Theory	3 hrs
	287.	1305/314	Plumbing Craft Theory	3 hrs
	288.	1308/314	Land Surveying Theory	3 hrs
	289.	1309/314	Road Construction Tech. & Drawing	3 hrs
	290.	1501/105	Fabrication Technology, Materials and metallurgy	3 hrs
	291.	1501/205	Production Processes Technology	3 hrs
	292.	1503/105	Vehicle Technology, Workshop Technology and Vehicle bodywork	3 hrs
	293.	1503/205	Engine Technology and Auto-Electrics	3 hrs
	294.	1508/105	Fabrication and Welding Technology, Materials and Metallurgy I	3 hrs
	295.	1508/205	Fabrication and Welding Technology I, Materials & Metallurgy II	3 hrs
	296.	1509/105	Workshop Technology, Engine Technology and Construction Plant I	3 hrs
	297.	1509/205	Vehicle Technology and Construction Plant II	3 hrs
	298.	1521/205 1601/205	Electrical Installation II, Estimating, Tendering, Industrial Machines and Controls	3 hrs
	299.	1522/205 1602/205	Telecommunication Systems	3 hrs
	300.	1601/105 1602/105	Electrical and Solar Installation Technology	3 hrs
	301.	1704/105	Site Management and Construction Plant	3 hrs
	302.	2203/302	Data Communication	3 hrs
	303.	2204/302	Machines & Utilization	3 hrs
	304.	2205/302	Data Communication	3 hrs
	305.	2208/304	Clinical Engineering Paper II	3 hrs
	306.	2301/305 2302/305	Construction Technology, Materials, Measurement, & Costing	3 hrs
	307.	2304/305	Environment Science	3 hrs
	308.	2305/305	Measurement, Estimating & Costing	3 hrs
	309.	2306/305	Building Economics Construction Law, Estimating & Costing	3 hrs

DATE		PAPER CODE	PAPER NAME	DURATION	
		310.	2307/305	Measurement, Estimating & Costing	3 hrs
		311.	2308/305	Highway Engineering Construction	3 hrs
		312.	2309/305	History of Architecture	3 hrs
		313.	2310/305	Remote Sensing	3 hrs
		314.	2311/305	Special Purposes Cart. & Cart. Rep.	3 hrs
		315.	2312/305	Cadastral Surveying & Land Law	3 hrs
		316.	2313/305	Photomechanical Processes & Print Sci.	3 hrs
		317.	2402/305	Principles and Practice of Management	3 hrs
		318.	2403/305	Food Processing & Preservation	3 hrs
		319.	2404/305	Animal and Plant Husbandry, Pharmacology, Toxicology, Entomology and plant Pathology	3 hrs
		320.	2405/305	Elements of Accounts	3 hrs
		321.	2407/305	Medical Microbiology	3 hrs
		322.	2411/305	Instrumental Methods of Analysis	3 hrs
		323.	2416/305	Advertising & Corporate Identity Design	3 hrs
		324.	2417/305	Drawing, art & Visual Communication	3 hrs
		325.	2418/305	Art/ Factual Sculpture	3 hrs
		326.	2426/104 2427/104	Food & Beverage Production & Service	3 hrs
		327.	2427/203	Computer Applications	3 hrs
		328.	2506/107 2507/107	Aircraft Piston engines	3 hrs
		329.	2506/207	Theory of Flight	3 hrs
		330.	2506/307	Airframe Systems II and Airfield Safety III	3 hrs
		331.	2507/207	Electric Circuit Analysis	3 hrs
		332.	2507/307	Automatic Pilot System and Airfield Safety & Procedures III	3 hrs
		333.	2916/104	Diet Therapy I, Principles of Human Nutrition, Introduction to Nutrition and Dietetics, Anatomy and Physiology Theory	3 hrs
		334.	2916/204	Introduction to Microbiology, First Aid and Principles of Food Processing and Preservation	3 hrs
		335.	2916/304	Communicable and Non-Communicable Diseases and Nutrition Epidemiology	3 hrs
		336.	3084/207	Water and Waste Water Technology	3 hrs
		337.	4080/204	Gravimetric, Volumetric and Biochemistry	3 hrs
		338.	4082/204	Pharmacology & Toxicology II	3 hrs
		339.	4089/204	Food Analysis	3 hrs
8.00 A.M. DAY 5 FRIDAY 15TH NOVEMBER, 2019					
1ST MORNING SESSION					
FRIDAY 15TH NOVEMBER 2019 1ST MORNING SESSION 8.00 A.M. DAY 5	340.	0501/101	General Education (Engineering) I	1 hr	
		0516/101 0503/101 0505/101 0601/101 0701/101 0702/101			
	341.	0501/201	General Education (Engineering) II	1 hr	
		0503/201 0505/201 0601/201 0701/201 0702/201			
342.	0602/101	General Education (Science) I	1 hr		
	0801/101 0901/101 0902/101 0903/101 0904/101 0920/101				
343.	0602/201	General Education I (Science) Leve II	1 hr		
	0801/201 0901/201 0902/201 0903/201 0904/201 0920/201				

DATE		PAPER CODE	PAPER NAME	DURATION
	344.	1410/206	Kiswahili	3 hrs
	345.	1904/106	Science Laboratory Techniques practical I	4 hrs
	346.	1904/206	Science Laboratory Techniques practical II	4 hrs
	347.	1905/106	Legal Aspects of Nutrition and Dietetics, HIV and AIDS, Introduction to Primary Health Care	3 hrs
	348.	1905/206	Maternal and Child Nutrition, Nutrition in the Lifecycle and Nutrition for Vulnerable Groups	3 hrs
	349.	2101/306	Production Technology & Metrology	3 hrs
	350.	2102/306	Plant Technology & practice	3 hrs
	351.	2103/306	Vehicle Technology & Practice	3 hrs
	352.	2104/306	Construction Plant Technology	3 hrs
	353.	2105/306	Agric. Machines, Implementation & Field Engineering	3 hrs
	354.	2106/306	Welding and Fabrication Technology	3 hrs
	355.	2107/306	Aircraft Propulsion	3 hrs
	356.	2108/306	Foundry Technology & Practice	3 hrs
	357.	2201/306	Instrumentation	3 hrs
	358.	2203/306	Communication Systems	3 hrs
	359.	2204/306	Power Electronics & Micro-processors	3 hrs
	360.	2205/306	Computer Applications	3 hrs
	361.	2206/306	Transmission of Measurement and Control Signals	3 hrs
	362.	2206/308	Aeronautics	3 hrs
	363.	2208/306	Hospital Engineering I and II	3 hrs
	364.	2301/306	Water Supply	3 hrs
	365.	2302/306	Waste Water	3 hrs
	366.	2304/306	Drilling, Mechanical and Electrical Technology	3 hrs
	367.	2305/306	Construction Management	3 hrs
	368.	2306/306	Construction Management	3 hrs
	369.	2307/306	Civil Engineering, Construction & Drawing	3 hrs
	370.	2308/306	Traffic Engineering	3 hrs
	371.	2309/306	Construction Management and Law	3 hrs
	372.	2310/306	Photogrammetry	3 hrs
	373.	2311/306	Topographic & Cadastral Cartography	3 hrs
	374.	2312/306	Survey Control & Engineering Survey	3 hrs
	375.	2313/306	Machine Printing & Print Finishing	3 hrs
	376.	2401/306	Fashion Design	3 hrs
	377.	2402/306	Food & Beverage Control	3 hrs
	378.	2403/306	Technology of Specific Products	3 hrs
	379.	2404/306 2407/306 2411/306	Laboratory Practice & Management	3 hrs
	380.	2405/306	Computing	3 hrs
	381.	2413/305	Reactor Engineering & Control	3 hrs
	382.	2422/305	Pre-Press Equipment Maintenance & Quality Control	3 hrs
	383.	2423/305	Press Equipment Maintenance & Quality Control	3 hrs
	384.	2424/305	Post press Equipment Maintenance & Quality Control	3 hrs
	385.	2426/103B 2427/103	Applied Sciences (Microbiology & Parasitology, Anatomy & Physiology)	3 hrs
	386.	2502/105	Plant Maintenance	3 hrs
	387.	2502/305	Power Production Systems	3 hrs
	388.	2525/204 2921/204	Farm Management and Research Methodology	3 hrs
	389.	2525/304 2921/304	Sustainable Agriculture	3 hrs
	390.	2910/204	Farm Management and Agricultural Extension	3 hrs
	391.	2915/206	Analytical Chemistry Practical II	4 hrs
	392.	2916/105	Legal Aspects of Nutrition, HIV & AIDS, Nutrition in HIV & AIDS, Maternal and Child Health	3 hrs
	393.	2916/105	Legal Aspects of Nutrition, HIV & AIDS, Nutrition in HIV & AIDS, Maternal and Child Health	3 hrs
11.30 A.M. DAY 5 FRIDAY 15TH NOVEMBER 2019				
2ND MORNING SESSION				
	394.	0401/211A	Pattern Drafting Practical	4 hrs
	395.	0504/104	Marine Engineering I	2½ hrs
	396.	0504/201	Marine Engineering II	2 ½ hrs

DATE		PAPER CODE	PAPER NAME	DURATION
FRIDAY 15 TH NOVEMBER 2019 2 ND MORNING SESSION 11.30 A.M. DAY 5	397.	05041/104	General Marine Engineering knowledge I	2½ hrs
	398.	05041/204	General Marine Engineering knowledge II	2½ hrs
	399.	1080/217	Production Engineering I	3 hrs
	400.	1080/219	Plant Engineering I	3 hrs
	401.	1080/221	Automobile & Prime Movers Engineering I	3 hrs
	402.	1401/312	Pattern Drafting and Grading Practical	4 hrs
	403.	1402/312	Food & Beverage Control Theory	3 hrs
	404.	1403/312	Food Microbiology & Food Chemistry	3 hrs
	405.	1404/312	Leather Production	3 hrs
	406.	1405/312	Animal Production	3 hrs
	407.	1408/312	Physics Techniques	3 hrs
	408.	1409/312	Fish Handling, Processing & Preservation	3 hrs
	409.	1411/312	Printing Science	3 hrs
	410.	1412/312	Haematology & Immuno-Haematology	3 hrs
	411.	1601/104 1602/104	Technical Drawing	3 hrs
	412.	1704/104	Carpentry and Construction Materials I	3 hrs
	413.	1704/204	Building Services, Joinery & Construction Materials II	3 hrs
	414.	1819/105	Food & Beverage Service and Home Nursing theory	3hrs
	415.	1901/104	Geodynamics, Stratigraphy and Sedimentology	3 hrs
	416.	1901/204	Workshop Technology & Practice	3 hrs
	417.	2418/306	Environment, Mon and Statuary Sculpture	3 hrs
	418.	2425/104	Agricultural Engineering I	3 hrs
	419.	2425/204	Agricultural Engineering II	3 hrs
	420.	2425/304	Agricultural Engineering III & Environmental Management	3 hrs
	421.	2426/203B 2427/204	Applied Science (Physical Science and Biochemistry)	3 hrs
	422.	2429/306A	Pharmacology & Therapeutics Theory	3 hrs
	423.	2521/105 2601/106 2602/106 2603/106	Electrical Measurement and Analogue Electronics	3 hrs
	424.	3080/206	Building Economics	3 hrs
	425.	3081/206 3083/206 3084/206	Estimating and Costing	3 hrs
	426.	3082/206	Costing & Measurement. of Field Works	3 hrs
	427.	3301/216	Geodesy	3 hrs
	428.	3302/216	Photogrammetric Mapping	3 hrs
	429.	3303/216	Thematic & Special Purpose Mapping	3 hrs
	430.	4080/202	Inorganic Chemistry	3 hrs
431.	4082/202	Animal Physiology II	3 hrs	
432.	4089/202	Food Processing & Preservation	3 hrs	
8.00 A.M. DAY 6 MONDAY 18TH NOVEMBER 2019				
1ST MORNING SESSION				
	433.	1410/202	Law, History & Government	3 hrs
	434.	2101/303 2102/303 2103/303 2104/303 2105/303 2106/303 2107/303 2108/303	Mechanical Technology	3 hrs
	435.	2306/303	Building Const. Civil Eng. Constr. & Drawing	3 hrs
	436.	2309/303	Materials & Concrete Technology	3 hrs
	437.	2310/303 2311/304	Land Surveying	3 hrs
	438.	2401/303	Garment Cutting & Making Tech. Theory	3 hrs

DATE		PAPER CODE	PAPER NAME	DURATION
MONDAY 18TH NOVEMBER 2019 1ST MORNING SESSION 8.00 A.M. DAY 6	439.	2402/303 2419/303	Food and Beverage Service & Sales Theory	3 hrs
	440.	2403/301	Food Engineering	3 hrs
	441.	2405/303	Statistical Methods	3 hrs
	442.	2406/103	Principles and Practice of Management	3 hrs
	443.	2406/203	Applied Science	3 hrs
	444.	2406/303	Principles of Accounts	3 hrs
	445.	2407/303	Chemical Pathology	3 hrs
	446.	2411/303	Organic Chemistry	3 hrs
	447.	2413/303	Industrial Chemical Processes	3 hrs
	448.	2420/203	Bakery Control, Principles of Accounts & Communication Skills	3 hrs
	449.	2422/302 2423/302 2424/302	Printing Science & Materials Tech.	3 hrs
	450.	2426/302 2427/302	Food Science & Technology	3 hrs
	451.	2428/103	Community Based Organizations, Capacity Building & Empt	3 hrs
	452.	2428/203	Advocacy, Lobbying & Legal Aspects in Social Development	3 hrs
	453.	2428/303	Social Policy Administration and Disaster Management	3 hrs
	454.	2428/306	Gender Development & Community Leadership	3 hrs
	455.	2429/303	Pharmaceutics	3 hrs
	456.	2525/104 2921/104	Livestock Enterprise Management I	3 hrs
	457.	2525/203 2921/203	Livestock Enterprise Management II	3 hrs
	458.	2525/301 2921/301	Livestock Enterprise Management III	3 hrs
	459.	2528/204 2922/204	Environmental Analytical Techniques and laboratory Management	3 hrs
	460.	2528/304 2922/304	Environmental Analytical Techniques	3 hrs
	461.	2705/103 2707/103 2709/103 2710/103	Structures I and Construction Materials	3 hrs
	462.	2705/202 2707/202 2709/202 2710/202	Structures II, Geotechnology II and Concrete Technology II	3 hrs
	463.	2705/302 2709/302 2710/302	Structures III	3 hrs
	464.	2707/302	Structures III	3 hrs
	465.	2802/103	Food and Beverage Production Theory	3 hrs
	466.	2802/203	Food And Beverage Control Theory	3 hrs
	467.	2802/303 2819/303 2920/303	Principles and Practice of Management	3 hrs
	468.	2803/103	Art, Fashion Design & Sketching and Cutting Technology I	3 hrs
	469.	2803/203	Fashion Design & Sketching II and Cutting Technology II Theory	3 hrs
	470.	2803/303	Fashion Marketing	3 hrs
	471.	2805/202	Case Management in Child Care and Protection	3 hrs
	472.	2805/302	Advocacy and Lobbying	3 hrs
	473.	2819/103	Food & Beverage Service and Control Theory	3 hrs
	474.	2830/104	Spinning Processes and Machinery	3 hrs
	475.	2830/204	Fabric Design and Analysis	3 hrs
	476.	2830/303	Fabric Processing, Machinery and Textile Design	3 hrs
	477.	2901/104	Geodynamics, Sedimentology, Stratigraphy and Policy Framework	3 hrs
	478.	2902/302	Prevention and Treatment Approaches	3 hrs
	479.	2902-09/102	Introduction to Psychology and Lifespan Development	3 hrs
	480.	2902-09/203	Contextual and Multicultural Issues in Counselling and Research Methods	3 hrs
	481.	2903/302	Contextual Issues	3 hrs
482.	2904/302	Contextual Issues	3 hrs	
483.	2905/302	Contextual and Psychosocial Issues	3 hrs	

DATE		PAPER CODE	PAPER NAME	DURATION
	484.	2906/302	Contextual Issues, Sexuality and Disaster Management	3 hrs
	485.	2907/302	Contextual Issues In Marriage and Family	3 hrs
	486.	2908/302	Counselling For Persons With Special Needs and Disabilities	3 hrs
	487.	2909/302	Contextual Issues	3 hrs
	488.	2910/104	Livestock Enterprise Management I	3 hrs
	489.	2910/203	Livestock Enterprise Management II	3 hrs
	490.	2914/306	Applied Biology Practical III	4 hrs
	491.	2916/106	Food Safety and Hygiene, Food Production for Invalids and Convalescents and Nutrition Anthropology	3 hrs
	492.	2916/306	Industrial Organization and management, Product Development, Marketing and Sales.	3 hrs
	493.	2920/103	Baking Control I and Mathematics	3 hrs
	494.	2920/202	Baking control and Baking Material Science	3 hrs
	495.	3080/205	Measurements of Building Works	3 hrs
	496.	3081/203	Structures II	3 hrs
	497.	3083/203	Highway Engineering II	3 hrs
	498.	3084/205	Water Resources	3 hrs
11.30 A.M. DAY 6 MONDAY 18TH NOVEMBER 2019				
2ND MORNING SESSION				
MONDAY 18TH NOVEMBER 2019 2ND MORNING SESSION 11.30 A.M. DAY 6	499.	1080/218	Production Engineering II	3 hrs
	500.	1080/220	Plant Engineering II	3 hrs
	501.	1080/222	Automobile & Prime Movers Engineering II	3 hrs
	502.	1102/313 1103/313 1105/313 1106/313	Workshop Organization & Management	3 hrs
	503.	1202/312	Electrical Principles	3 hrs
	504.	1204/314	Electrical Engineering Principles	3 hrs
	505.	1501/102 1508/102 1509/102	Mechanical Science I and Electrical Principles	3 hrs
	506.	1501/202 1503/202 1508/202 1509/202	Workshop Organisation and Management	3 hrs
	507.	1503/102	Applied Science, Electrical and Electronics Principles	3 hrs
	508.	1504/102	Seamanship I	3 hrs
	509.	1504/202	Seamanship & Management	3 hrs
	510.	1504/1/102	Ship construction	3 hrs
	511.	1504/1/202	Cargo Handling and Stowage	3 hrs
	512.	1505/102	Ship Construction & Naval Architecture I	3 hrs
	513.	1505/202	Ship Construction & Naval Architecture II	3 hrs
	514.	1505/1/102	Introduction to Ship Construction and Naval Architecture	3 hrs
	515.	1505/1/202	Ship Construction and Workshop Technology	3 hrs
	516.	1521/202 1522/202 1601/202 1602/202	Workshop Organisation and Management	3 hrs
	517.	1903/104	Food Engineering I	3 hrs
	518.	1903/204	Food Processing and Preservation II	3 hrs
	519.	2080/204 2081/204 2082/204 2083/204	Control Systems	3 hrs
	520.	2107/308	Airfield & Safety Procedures	3 hrs
	521.	2201/304 2203/304 2204/304	Control Systems	3 hrs
	522.	2206/302	Control Systems	3 hrs
	523.	2207/306	Airfield & Safety Procedure	3 hrs
524.	2209/103	Information Systems Management	3 hrs	
525.	2209/203	Programming II	3 hrs	

DATE		PAPER CODE	PAPER NAME	DURATION
	526.	2416/302 2417/302 2418/302	Socio – Cultural Studies	3 hrs
	527.	2501/104 2508/104	Engineering Drawing I	3 hrs
	528.	2501/204 2508/204	Engineering Drawing II and Design	3 hrs
	529.	2501/304 2502/304 2503/304 2508/304 2509/304	Thermodynamics and Fluid Mechanics	3 hrs
	530.	2502/104 2503/104 2509/104	Engineering Drawing I	3 hrs
	531.	2502/204	Plant Engineering Drawing	3 hrs
	532.	2503/204 2509/204	Engineering Drawing and Design	3 hrs
	533.	2504/104	Navigation I	3 hrs
	534.	2504/204	Navigation II	3 hrs
	535.	2504/304	Navigation III	3 hrs
	536.	25041/104	Navigation I	3 hrs
	537.	25041/204	Navigation II	3 hrs
	538.	25041/304	Navigation III	3 hrs
	539.	2505/104	Technical Drawing and Workshop Technology	3 hrs
	540.	2505/204	Engineering Drawing & Design	3 hrs
	541.	2505/304	Motor and Steam Engineering Knowledge	3 hrs
	542.	25051/104	Technical drawing and Workshop Technology	3 hrs
	543.	25051/204	Engineering Drawing and Design	3 hrs
	544.	25051/304	Maritime Conventions and Environment Protection	3 hrs
	545.	2506/104 2507/104	Engineering Drawing	3 hrs
	546.	2506/204 2507/204	Airfield Safety Procedures II and Research Methods	3 hrs
	547.	2506/304	Gas Turbine Engines	3 hrs
	548.	2507/304	Aircraft Communication, Surveillance and Navigation Systems	3 hrs
	549.	2521/104	Electrical Installation and Principles	3 hrs
	550.	2528/104 2922/104	Environmental Laboratory Practice	3 hrs
	551.	2805/103	Child Care and Protection	3 hrs
	552.	2901/204	Petroleum Geochemistry	3 hrs
	553.	2901/304	Geographic Information Science (GIS)	3 hrs
	554.	2910/304	Management of Natural Resources and Community Development	3 hrs
	555.	2913/105	Food Engineering I	3 hrs
	556.	2913/205	Food Engineering II	3 hrs
	557.	2913/305	Food Engineering III & Technology of Specific Products II	3 hrs
	558.	2914/105	Animal Husbandry, Museum and Herbarium Techniques	3 hrs
	559.	2915/105	Physical Chemistry I and Chemical Analytical Methods I	3 hrs
	560.	2914/205	Parasitology and Histology	3 hrs
	561.	2915/205	Physical Chemistry II	3 hrs
	562.	2915/305	Physical Chemistry III	3 hrs
	563.	3301/215	Survey Adjustments	3 hrs
	564.	3302/215	Photogrammetric Data Processing	3 hrs
	565.	3303/215	Cartographic Communication & Map Design	3 hrs
	566.	3402/204	Education Policy, Planning and Curriculum Management	3 hrs
	567.	4080/201	Physical Chemistry	3 hrs
	568.	4082/201	Animal Physiology I	3 hrs
	569.	4089/201	Food Engineering Systems	3 hrs
8.00 A.M. DAY 7 TUESDAY 19TH NOVEMBER 2019				
1ST MORNING SESSION				
TUESDAY	570.	1080/214	Mechanics of Machines	3 hrs
	571.	1401/314	Material Science	3 hrs
	572.	1403/314	Food Processing and Preservation II	3 hrs

DATE		PAPER CODE	PAPER NAME	DURATION			
19TH NOVEMBER 2019	1ST MORNING SESSION	8.00 A.M.	DAY 7	573.	1404/314	Footwear Goods Production	3 hrs
				574.	1405/314	Agricultural Extension Education & Home Economics	3 hrs
				575.	1406/314	Laundry Theory	3 hrs
				576.	1408/314	Biology Techniques	3 hrs
				577.	1409/314	Fisheries Management, Marketing & Utilization	3 hrs
				578.	1410/204	Human Growth, Development & Community Health	3 hrs
				579.	1411/314	Press Operations & Maintenance	3 hrs
				580.	1412/315	Medical Laboratory Technology Practice	4 hrs
				581.	1819/202	Laundry, Catering and Accommodation Premises Theory	3 hrs
				582.	1901/105	Engineering Drawing	3 hrs
				583.	2201/303 2203/303 2206/303	Microprocessor Systems	3 hrs
				584.	2204/303	Electrical Power Systems	3 hrs
				585.	2205/303	Microprocessor Systems	3 hrs
				586.	2207/303	Communication & Navigation System	3 hrs
				587.	2208/302	Medical Electronics	3 hrs
				588.	2406/202	Laundry and Dry Cleaning Theory	3 hrs
				589.	2413/304	Thermodynamics and Fluid Mechanics	3 hrs
				590.	2416/303 2417/303 2418/303	Graphic Reproduction	3 hrs
				591.	2419/304	Principles of Accounting & Management	3 hrs
				592.	2521/304 2601/304	Power Electronics, Machines and Utilization	3 hrs
				593.	2601/104 2602/104 2603/104	Engineering Drawing , Materials and Workshop Technology	3 hrs
				594.	2602/304	Electromagnetic Field Theory & Communication Systems	3 hrs
				595.	2603/304	Electromagnetic Field Theory & Networking	3 hrs
				596.	2705/104 2707/104 2709/104 2710/104	Surveying I and Workshop Technology (Mechanical)	3 hrs
				597.	2705/201 2707/201 2709/201 2710/201	Mathematics II and Surveying II	3 hrs
				598.	2705/301 2707/301 2709/301 2710/301	Mathematics III and Surveying III	3 hrs
				599.	2802/104	Food and Beverage Service Theory	3 hrs
				600.	2802/204 2819/204	Food Production Management Theory	3 hrs
				601.	2805/301	Care for Children with Special needs, Guidance, Mentorship and Self-care.	3 hrs
				602.	2901/105	Petroleum Geology and Exploration Techniques	3 hrs
				603.	2902/301	Theories Of Addiction Counseling	3 hrs
				604.	2902-09/103	Theories of Counselling I and Counselling skills	3 hrs
				605.	2902-09/201	Theories of Counselling II and Personal Development II	3 hrs
				606.	2903/301	Growth and Development	3 hrs
607.	2904/301	Theories and Practice Of Disaster Management and Crisis Intervention	3 hrs				
608.	2905/301	Theories, Process and Practice	3 hrs				
609.	2906/301	Human Development and Establishing Guidance and Counseling.	3 hrs				
610.	2907/301	Theories and Practice In Marriage and Family Therapy	3 hrs				
611.	2908/301	Introduction To Persons With Special Needs and Disabilities	3 hrs				
612.	2909/301	Sacred Writings I and II	3 hrs				
613.	2913/301	Product Development, Industrial Organization & Management	3 hrs				
614.	2914/305	Microbiology and Parasitology II	3 hrs				
615.	2915/106	Analytical Chemistry Practical I	4 hrs				
616.	2920/104	Baking I Theory	3 hrs				
617.	2920/203	Baking II Theory (Bread & Confectionery)	3 hrs				

DATE		PAPER CODE	PAPER NAME	DURATION
	618.	2920/304	Baking III Theory (Bread and Confectionery)	3 hrs
	619.	3080/204 3082/204	Site Organisation, Administration and Work Study	3 hrs
	620.	3084/204	Irrigation Engineering	3 hrs
	621.	3301/213	Geophysics	3 hrs
	622.	3302/213	Remote Sensing	3 hrs
	623.	3303/213	Geography	3 hrs
	624.	3402/104	Communication, Marketing and Public Relations	3 hrs
11.30 A.M. DAY 7 TUESDAY 19TH NOVEMBER 2019				
2ND MORNING SESSION				
TUESDAY 19TH NOVEMBER 2019 2ND MORNING SESSION 11.30 A.M. DAY 7	625.	1904/105	Biology Techniques I	3 hrs
	626.	1904/205	Biology Techniques II	3 hrs
	627.	1905/105	Introduction to Nutrition and Dietetics, Introduction to Nutrition Care Process and Principles of Human Nutrition	3 hrs
	628.	1905/205	Food Products for Invalids and Convalescents, Introduction to Behavioural Sciences and Nutrition Anthropology	3 hrs
	629.	2081/205 2082/205	Digital Electronics	3 hrs
	630.	2301/302 2302/302 2304/302	Hydraulics	3 hrs
	631.	2310/302 2311/302 2312/302 2313/302	Management	3 hrs
	632.	2403/302	Food Chemistry	3 hrs
	633.	2404/303	Microbiology, Parasitology & Immunology	3 hrs
	634.	2405/302	Applied Economics	3 hrs
	635.	2407/302	Haematology & Immuno-Haematology	3 hrs
	636.	2411/302	Inorganic Chemistry	3 hrs
	637.	2420/303	Principles & Pract. of Mgmt & Mktg; Legal Aspect of bakery Ind.	3 hrs
	638.	2425/102	Principles of Animal Production	3 hrs
	639.	2425/202	Animal Production II	3 hrs
	640.	2425/302	Animal Production III	3 hrs
	641.	2426/103A 2427/102	Legal Aspects of Dietetics & Communication Skills	3 hrs
	642.	2426/203A	Human Psychology & Computer Applications	3 hrs
	643.	2426/303 2427/303	Principles of Accounts and Practice of Management	3 hrs
	644.	2427/202	Human Psychology	3 hrs
	645.	2428/104	Communication Skills & Information Technology	3 hrs
	646.	2428/204	Statistics	3 hrs
	647.	2429/304 A	Pharmaceutical Chemistry Theory	3 hrs
	648.	2501/105	Structural Fabrication Technology, Material and Metallurgy I	3 hrs
	649.	2501/205	Structural Fabrication Technology, Materials and Metallurgy II	3 hrs
	650.	2501/305	Production Line Processes and Foundry Technology	3 hrs
	651.	2502/206	Building Services, Machine Installation, Refrigeration, Air conditioning and Ventilation	3 hrs
	652.	2503/105	Vehicle Technology	3 hrs
	653.	2503/205	Engines Technology and Bodywork	3 hrs
	654.	2503/305	Auto Electrics and Electronics	3 hrs
	655.	2504/105	General Ship Knowledge	3 hrs
	656.	2504/205	Maritime Conventions	3 hrs
	657.	25041/105	Seamanship and Meteorology	3 hrs
658.	25041/205	Cargo handling and stowage	3 hrs	
659.	25041/305	Ship masters business and law	3 hrs	
660.	2505/105	Ship Construction and Naval Architecture I	3 hrs	
661.	2505/205	Marine Mechanical Technology I	3 hrs	
662.	2505/305	Marine Mechanical Technology II	3 hrs	
663.	25051/105	Ship Construction	3 hrs	
664.	25051/205	Applied Mechanics	3 hrs	
665.	25051/305	Applied Thermodynamics and Fluid Mechanics	3 hrs	

DATE		PAPER CODE	PAPER NAME	DURATION
	666.	2506/105 2507/105	Workshop Technology and Life Skills	3 hrs
	667.	2506/205	Aircraft Mechanical Technology I	3 hrs
	668.	2506/305	Aircraft Mechanical Technology II	3 hrs
	669.	2507/205	Measurement Technology	3 hrs
	670.	2507/305	Electromagnetic Field Theory	3 hrs
	671.	2508/105	Fabrication and Welding Technology, Materials and Metallurgy I	3 hrs
	672.	2508/205	Fabrication and Welding Technology, Materials and Metallurgy II	3 hrs
	673.	2508/305	Advanced Fabrication Technology	3 hrs
	674.	2509/105	Engine and Construction Plant I Technology I	3 hrs
	675.	2509/205	Vehicle and Construction Plant Technology II	3 hrs
	676.	2509/305	Construction Plant Technology and Practice III	3 hrs
	677.	2521/204 2601/204 2602/204 2603/204	Engineering Drawing and Circuit Analysis	3 hrs
	678.	2525/105 2921/105	Agricultural Engineering I	3 hrs
	679.	2525/205 2921/205	Agricultural Engineering II	3 hrs
	680.	2525/303 2921/303	Agricultural Engineering III	3 hrs
	681.	2528/105 2922/105	Human Ecology and Economics	3 hrs
	682.	2528/205 2922/205	Environmental Resource Management and Economics	3 hrs
	683.	2910/105	Agricultural Engineering I	3 hrs
	684.	2910/205	Agricultural Engineering II	3 hrs
	685.	2910/305	Rural Sociology and Community Health	3 hrs
	686.	2916/103	Diet Therapy I, Meal Planning & Management and Principles of Human Nutrition Practice	3 hrs
	687.	2916/203	Diet Therapy II and Nutrition in the Lifespan Theory	3 hrs
	688.	2916/303	Diet Therapy III and Nutrition Education and Counselling Theory	3 hrs
	689.	4080/205	Instrumentation I	3 hrs
	690.	4082/205	Microbiology I	3 hrs
	691.	4089/205	Food Microbiology	3 hrs
8.00 A.M. DAY 8 WEDNESDAY 20TH NOVEMBER 2019				
1ST MORNING SESSION				
WEDNESDAY 20TH NOVEMBER 2019 1ST MORNING SESSION 8.00 A.M. DAY 8	692.	1080/215	Applied Thermodynamics	3 hrs
	693.	1401/315	Production Techniques	3 hrs
	694.	1405/315	Agricultural Engineering (Theory)	3 hrs
	695.	1406/315	Front Office Operations Theory	3 hrs
	696.	1408/315	Science Laboratory Practice (Practical)	4 hrs
	697.	1410/205	Sociology, Research Methods & Comm. Skill	3 hrs
	698.	1412/314	Clinical Chemistry	3 hrs
	699.	1504/105	Marine Engineering & Environment Protection	3 hrs
	700.	15041/105	General Marine Engineering Knowledge	3 hrs
	701.	15041/205	Watch keeping Practices and Meteorology	3 hrs
	702.	1505/105	Marine Engineering & Environment Protection	3 hrs
	703.	15051/105	Technical Drawing and Workshop Technology I	3 hrs
	704.	15051/205	Marine Electronic	3 hrs
	705.	1704/103	Building Construction I and Drawing	3 hrs
	706.	1704/203	Building Construction II & CAD	3 hrs
	707.	1901/106	Economics	3 hrs
	708.	1903/105	Food Processing and Preservation I	3 hrs
	709.	2080/205	Electrical Power Supply	3 hrs
	710.	2081/206 2083/205	Industrial Electronics	3 hrs
	711.	2201/302	Industrial Electronics	3 hrs
	712.	2208/303	Clinical Engineering I	3 hrs
	713.	2306/304	Measurement of Building and Civil Engineering Works	3 hrs
	714.	2309/304	Measurement Specs. & Costing	3 hrs
	715.	2313/304	Print Origination	3 hrs

DATE		PAPER CODE	PAPER NAME	DURATION
	716.	2416/304	Illustration, Packing & Model Making	3 hrs
	717.	2417/304 2418/304	Multimedia Crafts & Draughtsmanship	4 hrs
	718.	2422/303 2423/303 2424/303	Graphic Design	3 hrs
	719.	2425/103	Agricultural Economics I and Extension Education	3 hrs
	720.	2425/203	Agricultural Economics II, Extension & Home Economics	3 hrs
	721.	2425/303	Farm Business Management & Extension	3 hrs
	722.	2429/305	Pharmacy Practice and Dispensing/Compounding	4 hrs
	723.	2521/205 2601/205	Electrical Power Generation, Transmission & Protection	3 hrs
	724.	2521/305 2601/305	Electrical Power Systems and Electro Magnetic Field Theory	3 hrs
	725.	2601/105 2602/105 2603/105	Electrical Science & Solar Installation Technology	3 hrs
	726.	2602/205	Telecommunication Principles and industrial Measurements	3 hrs
	727.	2602/305	Data Communication & Networking	3 hrs
	728.	2603/205	Instrumentation Systems and Industrial Measurement	3 hrs
	729.	2603/305	Industrial Measurements II & Industrial Electronics	3 hrs
	730.	2705/105 2707/105 2709/105	Building Construction I, Technical Drawing & Construction Plant	3 hrs
	731.	2705/205	Building Construction II and Drawing II	3 hrs
	732.	2705/304 2707/304 2709/304 2710/304	Construction Management II, Estimating and Costing II	3 hrs
	733.	2707/205	Building Construction II, Civil Engineering Construction II & Transportation Engineering I	3 hrs
	734.	2709/204 2710/204	Measurements of Building Works, Estimating & Costing I and Construction Management I	3 hrs
	735.	2710/105	Building Construction I and Construction Plant	3 hrs
	736.	2805/105	Introduction to Accounting	3 hrs
	737.	2805/305	Financial management	3 hrs
	738.	2819/104	Accommodation Operations Theory	3 hrs
	739.	2819/201	Accommodation Operations Management I & Law Theory	3 hrs
	740.	2819/301	Accommodation Operations Management II theory	3 hrs
	741.	2901/205	Earth science & Wave Theory	3 hrs
	742.	2901/305	Remote Sensing	3 hrs
	743.	2915/306	Analytical Chemistry Practical III	4 hrs
	744.	3080/203	Construction Technology Paper II	3 hrs
	745.	2920/201	Accounting and Legal aspects	3 hrs
	746.	3081/204	Concrete and Timber Technology	3 hrs
	747.	3082/202	Construction Tech. Concrete Tech & Mechanical Plant	3 hrs
	748.	3083/204	Engineering Surveying	3 hrs
	749.	3084/202	Fluid Mechanics & Hydraulic Machines	3 hrs
	750.	3402/103	Financial Management of Education Institutions	3 hrs
	751.	3402/202	Entrepreneurship Education and Project Management	3 hrs
	752.	4080/206	Instrumentation II	3 hrs
	753.	4082/206	Microbiology II	3 hrs
	754.	4089/206	Food Ingredients, Pest Control & Entomology	3 hrs
11.30 A.M. DAY 8 WEDNESDAY 20TH NOVEMBER, 2019				
2ND MORNING SESSION				
WEDNESDAY	755.	1504/204	Navigation	3 hrs
	756.	15041/204	Terrestrial and Coastal Navigation	3 hrs
	757.	1801/104	Textile Material Knowledge and Fabric Colouration Theory	3 hrs
	758.	1804/104	Child Growth and Development	3 hrs
	759.	1904/104	Chemistry Techniques I	3 hrs
	760.	1904/204	Chemistry Techniques II	3 hrs
	761.	1905/104	Food Science, Food Safety and Hygiene, Meal Planning Management and Service Theory	3 hrs

DATE		PAPER CODE	PAPER NAME	DURATION
20 TH NOVEMBER 2019 2 ND MORNING SESSION 11.30 A.M. DAY 8	762.	1905/204	Diet Therapy (Theory), Nutrition in HIV& AIDS and Management of Malnutrition	3 hrs
	763.	2101/304	Engineering Drawing & Design	3 hrs
	764.	2102/304	Plant & Work Services Drawing	3 hrs
	765.	2103/304 2104/304 2105/304	Engineering Drawing & Sketching	3 hrs
	766.	2106/304	Engineering Drawing, Pattern Dev. & Design	3 hrs
	767.	2107/304	Flight Mechanics	3 hrs
	768.	2108/304	Engineering Drawing and Design	3 hrs
	769.	2205/304	Quantitative Techniques	3 hrs
	770.	2206/304	Measurement Systems	3 hrs
	771.	2207/304	Digital Principles & Microprocessors	3 hrs
	772.	2305/304	Building Technology & Drawing	3 hrs
	773.	2307/304	Soil Mechanics & Hydraulics	3 hrs
	774.	2308/304	Soil Mechanics & Hydraulics	3 hrs
	775.	2310/304 2312/304	Cartography	3 hrs
	776.	2401/304	Textile Science	3 hrs
	777.	2402/304	Principles of Accounts	3 hrs
	778.	2403/304	Food Microbiology	3 hrs
	779.	2404/304	Biochemistry, Anatomy & Physiology	3 hrs
	780.	2405/304	Applied Statistics	3 hrs
	781.	2407/304	Immunology	3 hrs
	782.	2411/304	Chemical Analytical Methods and Biochemistry	3 hrs
	783.	2501/106	Tool Room Process Technology I	3 hrs
	784.	2501/206	Tool Room Processes Technology II and Metrology	3 hrs
	785.	2502/106 2503/106 2509/106	Materials and workshop Technology	3 hrs
	786.	2504/1/206	Watch keeping practices (Theory)	3 hrs
	787.	2505/106	Marine Engineering and Environmental Protection	3 hrs
	788.	2505/206	Maritime Law	3 hrs
	789.	2505/1/106	General Marine and Motor Engineering knowledge I	3 hrs
	790.	2505/1/206	General Marine and Motor Engineering knowledge II	3 hrs
	791.	2506/106 2507/106	Airframe Structures, Airfield Safety and Procedures	3 hrs
	792.	2506/206	Airframe Systems I	3 hrs
	793.	2506/306 2507/306	Data and Computer Networks	3 hrs
	794.	2507/206	Communication and Telecommunication Systems	3 hrs
	795.	2508/106	Metal Technology and Joining Processes I	3 hrs
	796.	2508/206	Metal Technology and Joining Processes II	3 hrs
	797.	2508/306	Welding Processes	3 hrs
	798.	2805/204	Child and Adolescent Counselling and Family Care for Children	3 hrs
	799.	2902/304	Psychoactive Substances and Comorbidity	3 hrs
		2902-09/104	Contextual, Ethical and Legal Issues in Counselling	3 hrs
	800.	2902-09/204	Abnormal Behaviour and Psychological Testing	3 hrs
	801.	2903/304	Guidance and Counselling Techniques and Psychological Assessment	3 hrs
802.	2904/304	Disaster, Stress and Conflict Management	3 hrs	
803.	2905/304	HIV Management	3 hrs	
804.	2906/304	Introduction to and Practice of Guidance and Counselling and Mental Health.	3 hrs	
805.	2907/304	Sociology and Trends In Marriage and Family Therapy	3 hrs	
806.	2908/304	Contextual Issues and Personal Development	3 hrs	
807.	2909/304	Major World Religions and African Traditional Religions	3 hrs	
808.	2913/104	Agricultural Production and General Microbiology	3 hrs	
809.	2913/204	Food Processing and Preservation I	3 hrs	
810.	2913/303	Food Processing and Preservation II	3 hrs	
811.	2914/104	Taxonomy, Cytology and Microbiology	3 hrs	
812.	2915/104	Organic and Inorganic Chemistry I	3 hrs	
813.	2914/204	Biochemistry and Genetics	3 hrs	
814.	2915/204	Organic and inorganic Chemistry II	3 hrs	

DATE		PAPER CODE	PAPER NAME	DURATION
	815.	2914/304	Immunology and Biochemistry	3 hrs
	816.	2916/201	Basic Biochemistry and Introduction to Biostatistics.	3 hrs
8.00 A.M. DAY 9 THURSDAY 21ST NOVEMBER, 2019				
1st MORNING SESSION				
THURSDAY 21ST NOVEMBER 2019 1st MORNING SESSION 8.00 A.M. DAY 9	817.			
	818.			
	819.			
	820.			
	821.	1202/313	Electrical Installation Technology	3 hrs
	822.	1204/315	Electronic Technology	3 hrs
	823.	1301/313 1304/313 1305/313	Site & Workshop Management	3 hrs
	824.	1308/313	Work Planning & Management	3 hrs
	825.	1309/313	Site Management	3 hrs
	826.	1314/103	Construction Technologies I	3 hrs
	827.	1314/203	Irrigation and Drainage	3 hrs
	828.	1401/313	Garment Designing, Cutting & Making Theory	3 hrs
	829.	1402/313	Food & Beverage Service Theory	3 hrs
	830.	1403/313	Food Processing & Preservation I	3 hrs
	831.	1404/313	Leather Goods Production	3 hrs
	832.	1405/313	Agricultural Economics & Farm Management	3 hrs
	833.	1406/313	Housekeeping & Maintenance Theory	3 hrs
	834.	1408/313	Chemistry Techniques	3 hrs
	835.	1409/313	Food Chemistry, Microbiology & Engineering	3 hrs
	836.	1410/203	Project Dev., Management, Econ. & Admin.	3 hrs
	837.	1411/313	Surface Preparations	3 hrs
	838.	1412/313	Parasitology & Histology	3 hrs
	839.	1801/103	Workshop Organisation Management and General Information	3 hrs
	840.	1802/103	Food and Beverage Production Theory	3 hrs
	841.	1802/203	Food and Beverage Service and Sales Theory	3 hrs
	842.	1804/103	Child Health and Safety	3 hrs
	843.	1819/103	Food & Beverage Production and Control Theory	3 hrs
	844.	1901/103	Environmental Health, Safety, Legal and Policy Framework	3 hrs
	845.	1901/203	Petroleum Geology & The Fundamentals of Petroleum Exploration & Production	3 hrs
	846.	1903/103	Agricultural Production and Microbiology	3 hrs
	847.	1903/203	Food Engineering II	3 hrs
	848.	1904/103	Physics Techniques I	3 hrs
	849.	1904/203	Physics Techniques II	3 hrs
850.	1905/103	Food Science, Food Safety and Hygiene, Meal Planning Management and Service Practice.	3 hrs	
851.	1905/203	Diet Therapy and Demonstration Techniques Practice	3 hrs	
852.	2080/202 2081/202 2082/202 1080/212	Industrial Org. & Management	3 hrs	
853.	2083/202	Industrial Org. & Management	3 hrs	

DATE		PAPER CODE	PAPER NAME	DURATION
	854.	2101/302 2102/302 2103/302 2104/302 2105/302 2106/302 2107/302 2108/302	Industrial Organisation & Management	3 hrs
	855.	2201/305 2203/305 2204/305 2206/305 2208/305	Industrial Organisation & Management	3 hrs
	856.	2205/305	Industrial Org. & Management	3 hrs
	857.	2207/305	Industrial Org. & Management	3 hrs
	858.	2209/102	Computer Applications	3 hrs
	859.	2209/202	Programming I	3 hrs
	860.	2209/302	Data Communications	3 hrs
	861.	2913/106	Applied Science and Microbiology Practical	4 hrs
11.30 A.M. DAY 9 THURSDAY 21ST NOVEMBER, 2019				
2ND MORNING SESSION				
THURSDAY 21ST NOVEMBER 2019 2ND MORNING SESSION 11.30 A.M. DAY 9	862.	2301/304 2302/304	Surveying	3 hrs
	863.	2304/304	Photogeology	3 hrs
	864.	2305/302 2307/302 2308/302	Surveying	3 hrs
	865.	2306/302	Surveying	3 hrs
	866.	2309/302	Construction Technology & Services	3 hrs
	867.	2401/305	Industrial Org. & Management	3 hrs
	868.	2413/302	Industrial Org. & Management	3 hrs
	869.	2501/102 2502/102 2503/102 2508/102 2509/102	Mechanical Science & Electrical Principles	3 hrs
	870.	2501/202 2502/202 2503/202 2508/202 2509/202	Mechanics of Machines and Strength of Materials	3 hrs
	871.	2501/302 2503/302 2508/302 2509/302	Control Systems and Instrumentation	3 hrs
	872.	2502/302	Control Systems and Automation	3 hrs
	873.	2504/102	Marine Engineering & Construction Theory	3 hrs
	874.	2504/202	Ship Construction and Cargo Work II	3 hrs
	875.	2504/301	Marine Law and Management	3 hrs
	876.	25041/102	Ship construction	3 hrs
	877.	25041/202	Ship stability	3 hrs
	878.	25041/302	Marine Technology	3 hrs
	879.	2505/102	Marine Electrical and Electronics Technology	3 hrs
	880.	2505/202	Maritime Electronics Technology	3 hrs
	881.	2505/302	Marine Electrical, Instrumentation and Control Technology	3 hrs
	882.	25051/102	Marine Electrical Technology I	3 hrs
	883.	25051/202	Marine Instrumentation and Control Engineering	3 hrs
	884.	25051/302	Marine Electrical Technology, Instrumentation and Control Systems	3 hrs
885.	2506/102 2507/102	Aircraft Electrical Technology	3 hrs	
886.	2506/202 2507/202	Electronics and Control Systems	3 hrs	
887.	2506/302	Flight Mechanics	3 hrs	
888.	2507/302	Micro Controllers Technology	3 hrs	
889.	2521/103	Engineering Science and Drawing	3 hrs	

DATE		PAPER CODE	PAPER NAME	DURATION
	890.	2521/203 2601/202 2602/202 2603/202	Digital and Analogue Electronics	3 hrs
	891.	2521/302 2601/302 2602/302 2603/302	Micro Controllers and Micro Processor Systems	3 hrs
	892.	2528/103 2922/103	Environmental Biology	3 hrs
	893.	2528/203 2922/203	Environmental Microbiology	3 hrs
	894.	2528/303 2922/303	Environmental Biochemistry and toxicology	3 hrs
	895.	2601/102 2602/102 2603/102	Physical, Mechanical Science and Electrical Principles	3 hrs
	896.	2705/102 2707/102 2709/102 2710/102	Mathematics I and Physical Science	3 hrs
	897.	2705/203	Construction Management I and Workshop Technology II	3 hrs
	898.	2705/303 2709/303 2710/303	Building Construction, Drawing III and Services	3 hrs
	899.	2707/203	Construction Management I, Workshop Technology II & Water Supply	3 hrs
	900.	2707/303	Building Construction III and Transportation Engineering II	3 hrs
	901.	2709/203 2710/203	Building Construction II, Workshop Technology II	3 hrs
	902.	2802/102	Catering Premises, Equipment and Mathematics	3 hrs
	903.	2802/202	Nutrition, Diet Therapy and Home Nursing	3 hrs
	904.	2802/302 2920/302	Sales and marketing	3 hrs
	905.	2803/102	Textile Science and Clothing Construction I Theory	3 hrs
	906.	2803/202	Textile Science II and Clothing Construction II Theory	3 hrs
	907.	2803/302	Clothing Construction III Theory	3 hrs
	908.	2805/102	Child Growth development and Psychology	3 hrs
	909.	2805/203	Children in Juvenile Justice Systems and Behaviour Modification.	3 hrs
	910.	2805/304	Principles and Practices of Management	3 hrs
	911.	2819/102	Food & Beverage Production ,Nutrition & Mathematics	3 hrs
	912.	2819/202	Diet Therapy, Hospitality Accounting & Control II Theory	3 hrs
	913.	2901/103	Engineering Drawing, W/Shop Technology, Environmental Health and Safety management	3 hrs
	914.	2901/203	Rocks, Fluids & Reservoir Geophysics	3 hrs
	915.	2901/303	Petroleum Exploration & Drilling	3 hrs
	916.	2910/103	Crop Enterprise Management I and Foundations of Sustainable Agriculture	3 hrs
	917.	2910/303	Development economics and Agricultural marketing	3 hrs
	918.	2913/203	Technology of Specific Products I	3 hrs
	919.	2914/103 2915/103	Laboratory and Workshop Practice I	3 hrs
	920.	2914/203	Ecology and Plant Husbandry	3 hrs
	921.	2915/203	Chemical Analytical Methods II and Biochemical Techniques	3 hrs
	922.	2914/303	Soil Science, Aquarium and Vivarium Techniques	3 hrs
	923.	2915/303	Industrial Chemistry II and Quality Assurance	3 hrs
	924.	2920/102	Food Science and Nutrition	3 hrs
	925.	3080/201 3081/201 3082/201 3083/201	Mathematics	3 hrs
	926.	4080/207 4082/207 4089/207	Management and Statistics	3 hrs

DATE		PAPER CODE	PAPER NAME	DURATION	
8.00 A.M. DAY 10 FRIDAY 22ND NOVEMBER 2019					
1ST MORNING SESSION					
FRIDAY 22ND NOVEMBER 2019	1ST MORNING SESSION	8.00 A.M. DAY 10	927. 2080/203 2081/203 2082/203 2083/203	Electrical Measurements	3 hrs
			928. 2301/301 2302/301 2304/301	Mathematics	3 hrs
			929. 2305/301 2306/301 2307/301 2308/301 2309/301	Mathematics	3 hrs
			930. 2310/301 2311/301 2312/301 2313/301	Mathematics	3 hrs
			931. 2405/301	Mathematics	3 hrs
			932. 2416/306	Publication Design	3 hrs
			933. 2417/306	Painting Art	3 hrs
			934. 2426/102 2427/101B	Nutrition, Community Health & Diet Therapy I Theory	3 hrs
			935. 2422/304	Graphic Reproduction	3 hrs
			936. 2423/304	Proofing & Surface Preparation	3 hrs
			937. 2424/304	Finishing Binding and Ancillary operations	3 hrs
			938. 2426/202 2427/201B	Nutrition & Diet Therapy II Theory	3 hrs
			939. 2521/102 2601/103 2602/103 2603/103	Engineering Mathematics I	3 hrs
			940. 2521/201 2601/203 2602/203 2603/203	Engineering Mathematics II	3 hrs
			941. 2521/303 2601/303 2602/303 2603/303	Engineering Mathematics III	3 hrs
			942. 2710/106	Architectural Communication and Technical Drawing	3 hrs
			943. 2710/206	Architectural Design and Landscaping	4 hrs
			944. 2802/304 2819/304	Food and Beverage Service and Sales Management Theory	3 hrs
			945. 2803/104	Pattern Construction I Practical	4 hrs
			946. 2803/204	Pattern Construction II and Grading techniques I Practical	4 hrs
			947. 2803/304	Pattern Construction III and Grading techniques II Practical	4 hrs
			948. 2805/104	Child Health Care and Nutrition	3 hrs
			949. 2805/205	Community Development in Child care and Protection	3 hrs
			950. 2916/102	Mathematics and Physical Science	3 hrs
			951. 2916/202	Diet Therapy II and Nutrition in the Lifespan Practice	3 hrs
			952. 2916/302	Diet Therapy III and Nutrition Education and Counselling Practice	3 hrs
			953. 3301/211 3302/211 3303/211	Mathematics	3 hrs
11.30 A.M. DAY 10 FRIDAY 22ND NOVEMBER 2019					
2ND MORNING SESSION					
FRIDAY			954. 1501/103 1508/103 1509/103	Mathematics I	3 hrs
			955. 1501/203 1508/203 1509/203	Mathematics II and Mechanical Science II	3 hrs
			956. 1503/103	Mathematics I	3 hrs
			957. 1503/203	Mathematics II	3 hrs

DATE		PAPER CODE	PAPER NAME	DURATION
22 ND NOVEMBER 2019 2 ND MORNING SESSION 11.30 A.M. DAY 10	958.	1504/103 1505/103	Mathematics & Applied Science I	3 hrs
	959.	1504/203 1505/203	Mathematics & Applied Science II	3 hrs
	960.	15041/103 15051/103	Mathematics I and Applied science I	3 hrs
	961.	15041/203	Mathematics II	3 hrs
	962.	15051/203	Mathematics II and Applied science II	3 hrs
	963.	1521/103	Electrical and Electronic Technology	3 hrs
	964.	1521/203 1522/203 1601/203 1602/203	Mathematics II	3 hrs
	965.	1601/103 1602/103	Mathematics I	3 hrs
	966.	1704/102	Mathematics I and Physical Science	3 hrs
	967.	1704/202	Mathematics II	3 hrs
	968.	1507/111 1907/103	Baking & Confectionary Making I Theory	3 hrs
	969.	1507/211 1907/203	Baking & Confectionary Making II Theory	3 hrs
	970.	1819/201	House Keeping and Front office Theory	3 hrs
	971.	2404/302	Cytology, Histology & Genetics	3 hrs
	972.	2406/102	House Keeping Management Theory	3 hrs
	973.	2406/301	Front Office Theory	3 hrs
	974.	2420/202	Bread Making & Flour Conf. Theory II	3 hrs
	975.	2420/302	Bread Making & Flour Conf. Theory III	3 hrs
	976.	2428/102	Development Economics & Entrepreneurship Education	3 hrs
	977.	2428/202	Resource Management HIV/AIDS	3 hrs
	978.	2428/302	Counselling Psychology, Social Rehab. & Reintegration	3 hrs
	979.	2428/305	Community Concerns & Dev. Methodologies	3 hrs
	980.	2429/302	Drug Supply Management	3 hrs
	981.	2525/103 2921/103	Crop Enterprise Management I	3 hrs
	982.	2525/202 2921/202	Crop Enterprise Management II	3 hrs
	983.	2525/302 2921/302	Agro Processing and Value Addition	3 hrs
	984.	2830/103	Introduction To Textile Technology, Spinning Preparation and Quality Control	3 hrs
	985.	2830/203	Industrial Organisation and Management and Quality Control in Knitting and Weaving	3 hrs
	986.	2830/304	Industrial Organization and Management II	3 hrs
	987.	3080/202	Construction Technology Paper I	3 hrs
	988.	3081/202	Structures I	3 hrs
	989.	3082/203 3084/203	Structures Including Highways Eng.	3 hrs
990.	3083/202	Highway Engineering I	3 hrs	
991.	3301/212 3302/212 3303/212	Land Law, Environment, Physical, Planning Studies & GIS	3 hrs	
992.	3402/102	Management of Human Resources and Guidance and Counselling	3 hrs	
993.	3402/203	Research in Education and Training	3 hrs	
994.	3402/203	Research in Education and Training	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