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DEPARTMENT: ECONOMICS
COURSE CODE:ECO104
MATRIC NUM: 19/SMS01/012
ASSIGNMENT

VIEWING TIME	F	class marks	Relative Freq.	Upper boundries	(2c)cummulative Freq distribution
300-399	14	349.5	3.50%	399.5	0
400-499	46	449.5	11.50%	499.5	14
500-599	58	549.5	14.50%	599.5	60
600-699	76	649.5	19%	699.5	118
700-799	68	749.5	17%	799.5	194
800-899	62	849.5	15.50%	899.5	262
900-999	48	949.5	12%	999.5	324
1000-1099	22	1049.5	5.50%	1099.5	372
1100-1199	6	1149.5	1.50%	1199.5	394
	400		100.00%		400

Solutions

(a) 799

(b) 1000

© $900+999/2=949.5$

(d) Lower class boundry of the last class

$1099+1100/2=1099.5$

Upper class boundry of the last class

$1199+1200/2=1199.5$

(e) Upper class boundry of the last class-Lower class boundry of the last class

$1199.5-1099.5=100(\text{hours})$

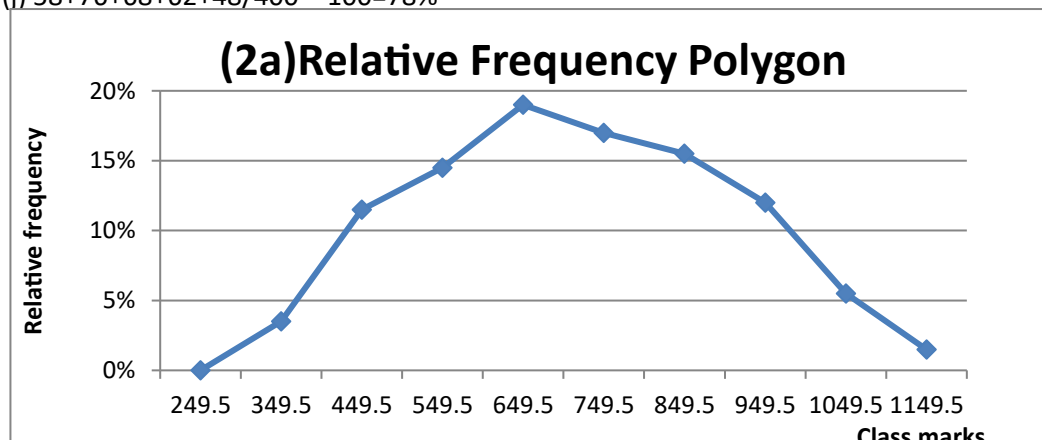
(f) 76

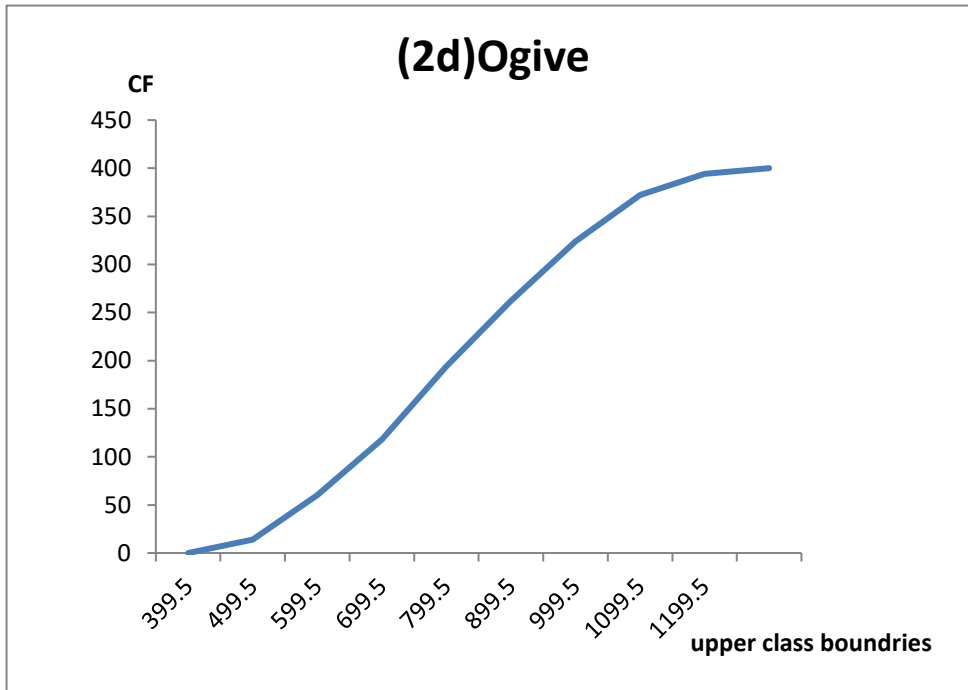
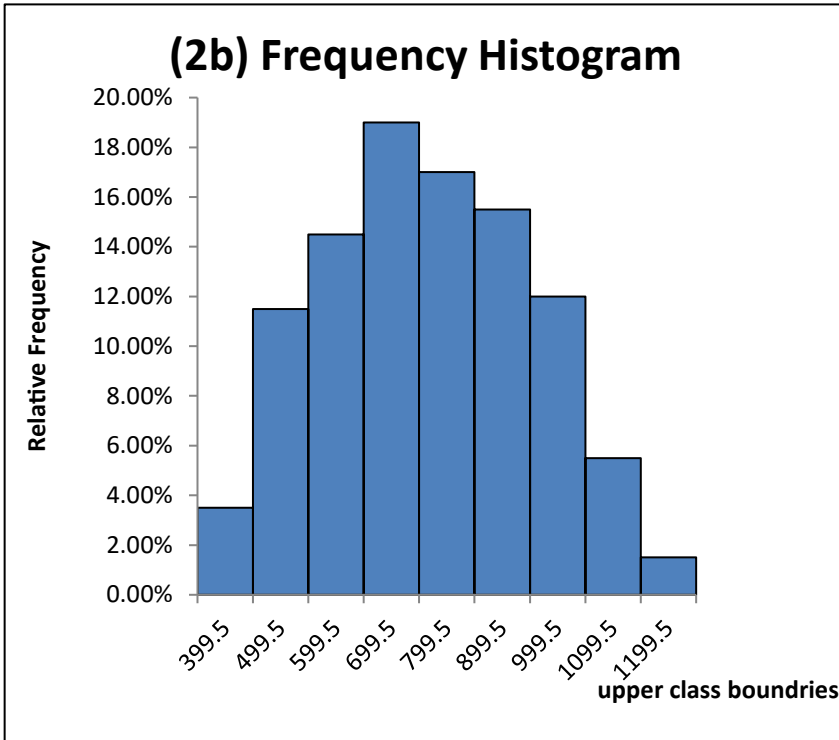
(g) $62/400=0.155$ or 15.5%

(h) $14+46+58/400 * 100=29.5\%$

(i) $48+22+6/400*100=19\%$

(j) $58+76+68+62+48/400 * 100=78\%$





Q3

Grade	F	class	CF
		boundries	
30-39	1	29.5-39.5	1
40-49	3	39.5-49.5	4
50-59	11	49.5-59.5	15
60-69	21	59.5-69.5	36
79-79	43	69.5-79.5	79
80-89	32	79.5-89.5	111
90-100	9	89.5-100.5	120
total=120			

(a)(i) $Q1=N/4$ $N/4=120/4=30$ (ii) $Q3=3N/4=3*120/4=90$
 $Q1= 59.5+(30-15/21)*(69.5-59.5)$ $Q3= 79.5+(90-79/32)*(89.5-79.5)$
 $59.5+5/7*10 =66.6$ $79.5+11/32*10=82.9$

(iii) $Q2= 2N/4$ $2N/4=2*120/4=60$
 $Q2= 69.5+(60-36/43)*(79.5-69.5)$
 $69.5+24/43*10=75.1$

(b)(i) $P10=10*120/100=12$ (ii) $P25=25*120/100=30$
 $P10=49.5+(12-4/11)*(59.5-49.5)$ $P25=59.5+(30-15/21)*(69.5-59.5)$
 $49.5+8/11*10=56.8$ $59.5+15/21*10=66.6$

(iii) $P90=90*120/100=108$ (iv) $P75= 75*120/100=90$
 $79.5+(108-79/32)*(89.5-79.5)$ $79.5+(90-79/32)*(89.5-79.5)$
 $79.5+29/32*10=88.6$ $79.5+11/32*10=82.9$