```
Assignment-2
(1)
(a)
    Range
                                                   fx_
                                           X__
    1 - 10
                2
                                          5.5
                                                   11
                           0.5-10.5
    11 - 20
                7
                           10.5-20.5
                                                   108.5
                                          15.5
    21 --- 30
                10
                           20.5-30.5
                                           25.5
                                                    255
    31 - 40
                3
                           30.5-40.5
                                           35.5
                                                     106.5
    41-50
                 1
                           40-5-50.5
                                           45.5
                                                     45.5
                 23
                                                      526.5
                     X = \( \subseteq \text{YX} \)
                                 = 526.5 = 22.89 AMS
                            Σf
                                     23
(b)
     Range
                                     £X
               Ŧ
                             X
     0-10
               2
                             5
                                     10
     10-20
                                      105
                              15
                7
     20-30
                15
                             25
                                      375
     30-40
                10
                              35
                                      320
                              45
                                       495
     40-50
                11
                               55
      20-60
                                      275
                5
                50
                                        1610
                X = \Sigma f X = 1610 = 32.2 \text{ PMS}
                                  50
                       Σf
```

(c·)	Exam score	No. of students	
	21 - 60	4	
	61 70	8	
	71 80	15	
	0 90	8	
	91 — 100	5	
		40	
		X fX	
	50,5 — 60.5	55.5 222	
	60.5 — 70.5	65.5 524	
	70.5 00.5	75.5 1132.5	
	80.5 — 90.5	05-5 604	
	90.5 — 100.5	95,5 477.5	
		3040	
	<u>-</u>		
		= 3040 = 76 Ams	
	Σf	40	
7			

(2) Meanwages 75 60
No. of workers 1000 ISOD

$$X_{12} = X_1N_1 + X_2N_2 = 75X1000 + 60X1500 = 75000 + 90000$$
 $N_1 + N_2$  1000 + 1500 2500

$$= 165000 = 66 \text{ Ans}$$
2500

(3) Medical examination No Examined mean weight (founds)
A 50 113
B 60 (115 K
C 90 120)

 $X_{123} = X_1N_1 + X_2N_2 + X_3N_3 = 113X50 + 120X60 + 115X90$ 
 $X_{123} = X_1N_1 + X_2N_2 + X_3N_3 = 113X50 + 120X60 + 115X90$ 
 $X_{123} = X_1N_1 + X_2N_2 + X_3N_3 = 50 + 60 + 90$ 

$$= 5650 + 7200 + 10350 = 23200 = 116 \text{ Ans}$$