

60

35

Q.1 (ii) (10)

- (2) • Hist
- (2) • BP (on same)
- (1) • mean, sd
- (1) • summary: min, Q1, Q2, Q3, max
- (1) • IQR
- (3) • Comment (shape, centre, spread)

(iii) (5)

- (2) • Q-Q (x2)
- (2) • Comments (x2)
- (1) • Refer to Hist + BP.

~~5x3~~

(iv) (x3) (15)

- (1) • Output
- (2) • State Ho & Ha.
- (1) • Conc: p-val
- (1) • Conc: C-I.

(v) (5)

- (2) • Conc: "Higher activity is better"
- (3) • Other (spread etc).

Q2 (10)

- (4) •  $p=0.5, n=50$
- (4) •  $p=0.05, n=50$
- (2) •  $p=0.05, n>50$

Q3 (10)

- (1) •  $P_r(X \geq 6) = 0.7515$
- (1) •  $P_r(X < 30) = 0.9888$
- (1) •  $P_r(15 \leq X \leq 30) = 0.6698$
- (1) •  $P_r(X = 8) = 0.1033$
- (1) •  $P_r(X > 35) = 0.8031$
- (1) •  $P_r(2 \leq X \leq 5) = 0.2636$
- (1) •  $P_r(X > 12) = 0.0228$
- (1) •  $P_r(X > 9.8) = 0.5793$
- (1) •  $P_r(X < 38) = 0.0082$
- (1) •  $P_r(4 < X < 8) = 0.4071$

Layout (5)