Q1. The maximum value of |z| when z satisfies $\left|z+\frac{2}{z}\right|=2$

(a) $\sqrt{3}-1$

(c) $\sqrt{3}+1$

(b) $\sqrt{3}$

(d) $\sqrt{2}+\sqrt{3}$

Q2. If $|z_1-1|<1;|z_2-2|<2;|z_3-3|<3$ then $|z_1+z_2+z_3|$

(a) less than 6

(b) less than 12

(c) less than 3

(d) none

Q3. If z is a complex no. satisfying $|z|^2-|z|-2<0$ then the value of $|z^2+z\sin\theta|$ for all values of θ

(a) equal to 4

(b) 6

(c) more than 6

(d) less than 6

Q4. If $\bar{z}=3i+\frac{25}{z+3i}$ then |z| cannot exceed

(a) 3

(b) 8

(c) 16

(d) 18