Exercise 15A

Question 9:

Total number of students=40

(i)Numbers of students having blood groupO = 14

$\therefore$ Required probability

$$= \frac{\text{numbers of students having blood group O}}{\text{totalnumberof students}} = \frac{14}{40} = 0.35$$

(ii) Numbers of students having blood groupAB = 6

$\therefore$ Required probability

$$= \frac{\text{numbers of students having blood group AB}}{\text{totalnumberof students}} = \frac{6}{40} = 0.15$$

Question 10:

Total numbers of students =30

Numbers of students who lie in the interval21-30=6

$\therefore$ Required probability

$$= \frac{\text{numbers of students in the interval}}{\text{totalnumberof students}} = \frac{6}{30} = 0.2$$

Question 11:

Total number of patients=360

(i)P (getting a patient of age 30 years or more but less than 40 years)$= \frac{60}{360} = \frac{1}{6}$

(ii)P (getting a patient of age 50 years or more but less than 70 years)

$$= \left(\frac{50+30}{360}\right) = \frac{80}{360} = \frac{2}{9}$$

(iii) P (getting a patient of age less than 10 years) $= \frac{0}{360} = 0$

(iv) P (getting a patient of age 10 years or more) $= \frac{360}{360} = 1$

********** END **********