

1. The parameter of PD is
 2. Poisson Distribution is Skewed
 3. In PD Mean and variance are same True or False
 4. The parameter of Poisson Distribution is 4. Find
 - a) Mean
 - b) SD
 - c) Variance
 - d) CV
 - e) Mode
 - f) Probability of Zero Success.
 - g) Probability of Non Zero Success.
- Comprehensive sum
5. The SD of Poisson Distribution is 4. Find out which of the relation is True.
 - a) $P(4) = P(5)$,
 - b) $P(3) = P(4)$,
 - c) $P(15) = P(16)$,
 - d) $P(16) = P(17)$
 6. The parameter of PD is 3. Find $P(x > 2)$ where x is Poisson Variate.
 7. If $P(x = 2) = P(x = 3)$ find $P(2 \text{ or } 3)$ where x is a Poisson Variate.
 8. $P(x = 2) = 0.15$ and Mean of PD is 6. Find $P(4), P(5)$ where x is Poisson Variate.
 9. CV of Poisson Variate is 25% find the parameter and mode.
 10. The mean of PD is 1 and x is a Poisson Variate. Find $P(x > 1), P(0 < x < 3)$
 11. If $P(x = 0) = P(x = 1)$ Find $P(x \text{ is utmost to } 1)$ where x is a Poisson Variable.
 12. X is a PV with mean 3. Find $P(x > 2)$.
 13. X is Poisson Variable with mean 1. Find $P(4 < x < 6)$ you are given $e^{-1} = 0.3678$
 - a) 0.001
 - b) 0.002
 - c) 0.0031
 - d) 0.0189
 14. X belongs to PD with parameter 3 and Y to PD with parameter 2. Find $P(x + y \geq 1)$ where X and Y are independent variable
 15. X is a Poisson Variate. If $P(x = 24) = P(x = 25)$. Find the parameter and mode.
 16. X is a Poisson Variable with parameter m . Find $P(x + 1)$ is
 - a) $\frac{m}{m+1} P(x)$
 - b) $\frac{m}{x+1} P(x)$
 - c) $\frac{m}{x} P(x)$
 - d) None
 17. The SD of PD $\sqrt{3}$. Find the probabilities of
 - a) Zero Success
 - b) Non Zero Success
 18. If $n = 100$ and $p = 1\%$. Find Mean and Sd. Find $P(x = 2)$
 19. A Co., has 2 cars to hire. The Mean demand is 1.5 cars/day. The % of day only one car is demanded. You are given $e^{-1.5} = 0.2231$

20. $P(x = 2) = 9P(x = 4) + 90P(x = 6)$ where x is a PV the SD is
- 2
 - 1
 - 3
 - None
21. 5% of Tools are defectives. Out of 40, find the probability of ~~at most~~ 2 defective ($e^{-2.3} = 0.135$)
22. $P(x = 2) = 3P(x = 4)$. Find ~~variable~~ of X , where X is a Poisson Variable.
23. The Parameter of PD is 16 & $n = 500$. Find p
24. The ~~Variable~~ of PD is 20 & $n = 500$. Find P
25. Of 0.1% of Toys are defective. Out of 200 Toys. Find Probability that
- None is defective
 - One is defective
26. The average number of customers arriving in a bank is 3 customer/ minute. During one minute, find the probability that
- No Customers arrives
 - One or more customers arrive. Assume the arrival of customers follows Poisson Law
27. A book has 200 pages containing 200 mistakes. A page is taken at random. What is the probability that
- It has no mistakes
 - One mistake
 - More than ~~3~~ mistakes (Assume mistakes follows Poisson Distribution)
28. In a Poisson Distribution, the probability of ~~three~~ Successes is half of the Probability of 3 Successes. Find the Mean of the Distribution.
29. x is PV with SD. $\sqrt{3}$ find $P(x \text{ lies in between } -1 \text{ and } 2.6)$
30. The probability of non zero success of PD is $1 - e^{-2.7}$. Find the Mode.
31. Mean of PD is 10. Find SD
32. The parameter of PD is 3. Find SD and CV
33. SD of PD is 2. Find Mode
34. In Poisson Distribution $P(x = 0) = P(x = 2)$. Find $E(x)$
35. If x is a Poisson Variate $P(x = 3) = 5P(x = 5)$. Find SD
36. If $E(x) = 1$. Find $P(x > 1)$ where x is a Poisson Variate.
37. If PD has two modes 3 and 4. Find the
- Parameter
 - CV
 - $P(x \leq 1)$
38. In Poisson Distribution, probability of a success is very close to
- 1
 - m
 - 0
 - None
39. The parameter of Poisson Distribution is 2 and SD is $\sqrt{3}$. test the validity of the date.
40. If x and y are Poisson Variables and are independent. Such that $P(x=1)=P(x=2)$ and $P(Y=2) = P(\frac{x-2}{y=3})$. Find
- $E(2x + 5y)$
 - $E(x - 4y)$
 - $V(x + 2y)$
41. Mean of Poisson Distribution is 6. Find Variance and Co-efficient of ~~Variables.~~ variation

42. 4 Coins are tossed 1600 times. What is the probability that none of the coin show Head.

completed

43. Let x be the Poisson variable with parameter λ . Find the $P(x)$ where x is odd no.

a. $\frac{e^\lambda - e^{-\lambda}}{2}$

b. $\frac{e^\lambda + e^{-\lambda}}{2}$

c. $\frac{e^{2\lambda} - 1}{2}$

d. $\frac{1 - e^{2\lambda}}{2}$

a. $1600 \cdot e^{-4}$ b. $100 \cdot e^{-160}$ c. e^{-100} d. none

1. The Parameters of BD are $16, \frac{1}{4}$. Find Mean and SD
2. The Mean & SD of a BD are 12 & 2. Find BD
3. If x is a Binomial variate with Mean 4 and SD is $\sqrt{2}$. Find the parameters.
4. In a BD, Mean is K times of Variance. Find K
 - a) q
 - b) $\frac{1}{p}$
 - c) $\frac{1}{1-p}$
 - d) None
5. The Binomial Distribution is $\left(\frac{3}{4} + \frac{1}{4}\right)^{16}$. Find
 - a) The parameters
 - b) Mean
 - c) SD
 - d) Variance
 - e) Co-efficient of Variation
 - f) Mode
 - g) Positively or Negatively Skewed
 - h) Probability of '0' success
 - i) Probability of Non Zero success.
6. The parameter of BD are (12,0.5). Find the maximum variance
7. If $p > \frac{1}{2}$ then B.D. is Skewed.
8. X belongs to BD of parameter (6,0.25) and Y belongs to another BD of parameter (10,0.25), If X & Y are indept variables then $X + Y$ belongs to which BD
9. Mean and SD of a BD are 4&3. Test the consistency.
10. In BD of parameter (n, $\frac{q}{p}$). then X always takes the values
 - a) Between 0 and n
 - b) Between 0 and n (both Inclusive)
 - c) Between 0 and 1
 - d) ~~Between 0 and ∞~~ Natural numbers upto n inclusive of 0
11. $n = 10, q = \frac{2}{3}$ find mean, variance mode
12. $P(X) = \frac{10C4}{10C4} (0.6)^6 \cdot (0.4)^4$ find parameter
13. In BD the sum of the powers of p & q is always equals to
14. In BD mean is $2 \cdot p = 0.5$ find $P(X \text{ when } X \geq 1)$
15. Mean & SD of a BD are 4 & $\sqrt{2}$ prob. Of Non Zero Success
16. Find the probability of getting 3 heads from 6 coins
17. Find the probability of making 3 correct guessing in 5 True or False type of question.
18. In an examination, the over all % of pass is 60, what is the probability that **atleast** one student out of 4 has passed the exam.
19. In a family of 4 children what is the probability that two of them are girls. (Assume birth of a boy and girl are equally likely)
20. 80% of commerce students like C.P.T course. In a sample 5 commerce students, find the probability that 80% of them like the course.
21. An experiment succeeds twice as often as it fails. Find the probability that out of 5 experiments two of them succeed.
22. 10 Dates are taken at random what is the probability that two of them are Sundays. **completed**
23. Mean and SD of BD are 10 & $\sqrt{5}$ find the mode
24. The probability of non zero success in BD is $1 - (0.6)^8$ find the parameter mode and C.V

25. X is a Binomial variate with Mean 4 and $SD\sqrt{2}$. Find $P(X \geq 2)$

26. In a BD maximum variance in 2.5 find the parameter & mode

27. X is a Binomial variate and if

$4P(X = 4) = P(X = 2)$ and $n = 6$ find the parameter

- a) $\frac{2}{3}$
- b) $\frac{1}{3}$
- c) $\frac{1}{2}$
- d) None

28. If $10P(X = 1) = P(X = 2)$ and P is 0.8 find ' n ' where X is B variate

- a) 8
- b) 6
- c) 4
- d) None

29. X belongs to $B(6, \frac{1}{2})$ is Y balance to $B(4, \frac{1}{2})$ find $P(X + Y \geq 1)$

30. In a BD, $\mu = 4, \sigma^2 = 3$ find Mode.

31. X is a binomial variate.

$P(x = 1) = 0.4096, p(x = 2) = 0.2048, n = 5$. Find P

- a) $\frac{3}{5}$
- b) $\frac{1}{5}$
- c) $\frac{2}{5}$
- d) None

32. For a B.D. Mean is 2 and Variance is 4. Find forth central moments.

33. Mean and Variance of B.D. are 4 and $\frac{4}{3}P(x \geq 1)$

34. If Mean > Variance then the distribution is

35. Mean and Variance of BD are 3 and 2. Find Parameter.

36. X is a Binomial Variate. $E(x) = 2$ and $V(x) = \frac{4}{3}$. Find the parameter.

37. Mean of BD is 20 add SD is 4. Find the parameter.

38. The parameter of a BD are $[n, p]$ when the distribution tends to

- i) Poisson
- ii) Normal

39. $X \sim B(5, p)$ and $p(x = 2) = 0.4362, p(x = 3) = 0.2181$. Find p

40. If B.D. $(15, \frac{1}{3})$ find mode.

41. X belongs to B.D with parameter $(6, \frac{1}{3})$. If $k p(x=4) = P(x=2)$ then k is equal to

42. X belongs to $B(n, p)$ then the distribution of $Y = n - x$ follows i.e . calculate $E(Y)$

- a) $B(n, 1)$
 - b) $B(n, x)$
 - c) $B(n, p)$
 - d) $B(n, q)$
- which distribution

43. Mean and Variance of B.D. are 3, 2. Find B.D

- a) $(\frac{2}{3} + \frac{1}{3})^9$
- b) $(\frac{1}{3} + \frac{2}{3})^9$
- c) $(\frac{2}{6} + \frac{1}{6})^9$
- d) None

44. In B.D, if variance = $(Mean)^2$ then n & P

- a) $1, \frac{1}{2}$
- b) 1, 1
- c) $2, \frac{1}{2}$
- d) $3, \frac{1}{2}$

45. In a B.D, if $P(x = 2) = 3 P(x = 3)$ and $n=4$. Find p

46. In a B.D. if $B(4, \frac{1}{3})$. Find Mean

47. The Probability that a Student is not a Swimmer is $\frac{1}{5}$. Find the Probability that out of 5 Students, 4 are Swimmers

a) $\left(\frac{4}{5}\right)^4 \cdot \left(\frac{1}{5}\right)$

completed

b) $5c, \left(\frac{1}{5}\right)^4 \cdot \left(\frac{4}{5}\right)$

c) $5C_4 \left(\frac{4}{5}\right)^4 \cdot \frac{1}{5}$

d) None

48. The Mean and Variance of B.D. are 5 and 3. Which of the following is True

- a) $p > q$
- b) $p < q$
- c) $P = q$
- d) None

49. The Mean and S.D of B.D are 2 & 1. Find q.

1. The parameter of ND are 10 and 25. Find
 - a) CV
 - b) Q_1
 - c) Q_2
 - d) Q_3
 - e) Quartile Deviation
 - f) Mean Deviation
 - g) Points of Inflection
 - h) Mode
2. Two Quartiles of Normal Distribution are 14.6 & 25.4. Find SD
 - a) 9
 - b) 6
 - c) 10
 - d) 8
3. MD of ND is 16. Find Quartile Deviation
4. Points of inflection of Normal Distribution are 40 & 60. Find
 - a) Parameter of ND
 - b) MD
 - c) QD
5. Quartile Deviation of ND is 4.05. Find MD
6. $Q_1 = 13.25$
MD about Median = 8.
Find Mode.
7. If $X \sim N(3, 36)$; $Y \sim N(5, 64)$ then $X + Y \sim N(8, A)$. Find A. X and Y are independent variable
8. The CV of ND is 70% & Mean is 10. Find
 - a) MD 2
 - b) 25th Percentile.
9. The % of the area of normal curve under 1, 2, 3 sigma limit.
10. Two Tails of a Normal Curve will never touch the Horizontal axis. Test the Correctness.
11. The number of methods of fitting the normal distribution.
12. X belongs to normal distribution with Mean 10 and SD 3.
Y belongs to normal distribution with Mean 12 and SD 4.
Find the parameter of ND in which $(x + y)$ belongs to
13. The ratio of QD, MD and SD of Normal Distribution is
14. the probability density function of Normal variety is
 - a) $f(x) = \frac{1}{4\sqrt{2\pi}} e^{-\frac{(x-10)^2}{32}}$ find the parameter.
 - b) $f(x) = \frac{1}{\sqrt{72\pi}} e^{-\frac{(x-15)^2}{72}}$ find the parameter.
 - c) $f(x) = \frac{e^{-\frac{(x-4)^2}{\pi}}}{\sqrt{\pi}}$ find the parameter.
 - d) $f(x) = \frac{5}{\sqrt{\pi}} e^{-25x^2}$ find the parameter.
15. $f(x) = Ke^{-\frac{(x-6)^2}{18}}$ find K
16. $f(x) = Ae^{-\frac{(x^2-6x+9)}{8}}$ find A.
17. $f(x) = \frac{1}{m} e^{-(x^2-8x+16)}$. Find the 'm'.
18. Find 50th percentile value of standardized normal distribution.
19. Find the Maximum ordinate of the Normal Distribution of Parameter (μ, a^2)
20. Find the variance of standardized Normal Distribution.
21. In a ND QD is 6, find SD
 - a) 4
 - b) 9
 - c) 7
 - d) 6

36. _____ is/are bi-Parametric distribution

- a) B.D
- b) N.D
- c) P.D
- d) ~~a and c~~ a and b

37. In Normal Distribution, $Q1=54.52$ and $Q3 = 78.86$. Find Median.

38. For a normal distribution $f(x)=\sqrt{\frac{2}{11}} \cdot e^{-2(x-3)^2}$. Find Mean and S.D

39. Which is not a characteristic of ND?

- a. Mean lies at the centre of the NC
- b. Multimodal
- c. Mean=Median=Mode
- d. It is Symmetric

40. If X belongs to $N(50,16)$, which is not true?

- a. $P(X>60)=.3$
- b. $P(X<60)=.4$
- c. $P(X<50)=.5$
- d. $P(X>50)=.5$

TYPE -1 – PROBLEMS USING SET THEORY

1. If $P(A) = \frac{1}{4}$ $P(B) = \frac{2}{5}$ $P(A \cup B) = \frac{1}{2}$. Find $P(A \cap B)$.
2. If $P(A \cup B) = \frac{2}{5}$ $P(B) = \frac{1}{3}$. If A & B are independent. Find $P(A)$
3. If $P(A) = \frac{1}{2}$ $P(B) = \frac{1}{2}$ $P(A \cup B) = \frac{7}{12}$. Find
 - a) $P(A \cap B)$
 - b) $P\left(\frac{A}{B}\right)$
 - c) $P\left(\frac{B}{A}\right)$
 - d) $P(\text{Exactly one event to occur})$
4. If $P(A) = \frac{1}{3}$ $P(B) = \frac{1}{4}$ $P\left(\frac{A}{B}\right) = \frac{1}{6}$. Find $P\left(\frac{B}{A}\right)$
5. If $P(A \cap B) = P(A) \times P(B)$ then A & B are
6. If $P(B - A) = P(B)$ then A & B are
7. $P\left(\frac{A}{B}\right) = P(A)$ then A and B are
8. If $P(A \cup B) = P(A)$ then $P(A \cap B)$ is equal to
9. $P(A) = \frac{1}{2}$ $P(\bar{B}) = \frac{5}{8}$ $P(A \cup B) = \frac{3}{4}$. Find $P(\bar{A} \cap \bar{B})$ (A and B are not independent event.)
10. $P(A) = \frac{3}{8}$; $P(B) = \frac{1}{2}$; $P(A \cap B) = \frac{3}{4}$. Find $P(A' \cup B')$ where A and B are two events.
11. For 2 event A and B the probability of occurrence of exactly one event is denoted by
 - a) $P(A \cap \bar{B}) + P(\bar{A} \cap B)$
 - b) $P(A \cap \bar{B})$
 - c) $P(A^c \cup B)$
 - d) $P(A^c \cup B^c)$
12. $P(A) = 0.45$; $P(B) = 0.35$ $P(A \text{ and } B) = 0.25$. Find
 - a) $P\left(\frac{A}{B}\right)$
 - b) $P\left(\frac{B}{A}\right)$
13. If $P(A_1) = \frac{2}{3}$; $P(A_2) = \frac{3}{8}$; $P(A_1 \cap A_2) = \frac{1}{4}$; then A_1 & A_2 are
 - a) Mutually exclusive event but not independent
 - b) Mutually exclusive event and independent
 - c) Independent but not Mutually Exclusive
 - d) None
14. For any two events A & B, which of the following is true
 - a) $P(A \cap B) \leq P(A) < P(B)$
 - b) $P(A \cup B) \leq P(A) + P(B)$
 - c) $P(A) \leq P(A \cup B)$
 - d) All the above

15. $P(A) = \frac{2}{3}, P(B) = \frac{3}{5}; P(A \cup B) = \frac{5}{6}$. Find $P(A/B')$

16. $P(A) = \frac{1}{2}; P(B) = \frac{1}{3}; P(A \cap B) = \frac{1}{4}$. Find $P(A \cup B)$

17. $P(A \cup B) = 0.8; P(A \cap B) = 0.3$. $P(\bar{A}) + P(\bar{B})$ is equal to

17.A. Two events A&B do not occur simultaneously then A and B are
a. Mutually exclusive b. Mutually exhaustive
c. Mutually independent d. Dependent

TYPE -2 -STATEMENT FORM OF PROBLEM

18. If a die is rolled on, find the probability of getting

- a) Prime Number
- b) Odd Numbers
- c) Multiples of 3.

17.B. A and B are two events. Which of the following are true?

- a. $P(A-B) = P(A) - P(B)$
- b. $P(A-B) = P(A) - P(A \cap B)$
- c. $P(B-A) = P(B) + P(A \cap B)$
- d. $P(B-A) = P(A) + P(B) - P(A \cap B)$

19. If two dice are rolled on find the probability of getting the sum of face number is-

- a) 7 or 11
- b) Both faces show the same face number (or difference at the Face Numbers is Zero)
- c) **Sum is neither 3 nor 16.**

17.C. $P(A)=0.3, P(B)=0.35, P(A \cup B)=0.45$.
Find $P(A \cap B)$

20. A card is drawn from a pack 52 cards. Find the probability of getting

- a) A king or spade
- b) King or Jack (KNAVE)
- c) King or Black card
- d) Queen or Red

17.D. $P(A)=2/3, P(B)=3/5, P(A \cup B)=5/6$
Find $P(B/A)$

21. A bag contains 6 red and 4 White Balls. Two Balls are drawn at a time. What is the probability of getting.

- a) Both of them are Red.
- b) One is Red and Other is white

17.E. $P(A) = 1/4, P(B)=2/5, P(A \cup B)=11/20$
Find (i) $P(A \cap B)$ (ii) $P(A \cap B)$

17.F. A & B are MEE. $P(A \cup B)=2/3, P(A)=2/5$
 $P(B)=?$

22. A bag contains 3 Red and 9 White Balls. 5 Balls are drawn at a time. Find the probability that 3 of them are Red.

23. **A bag contains 5 Red, 4 Black and M Green Balls. 2 Balls are at a time. If the probability of getting two green balls is $\frac{1}{7}$. Find the value of M.**

- a) 5
- b) 6
- c) 7
- d) None

17.G. A&B are independent. A and B are mutually exhaustive. $P(A) = 1/5$. Find $P(B)$
(Problem wrong)

~~24. Two Balls are drawn one after another without replacement from a bag containing 4 White and 3 Black.~~

25. Two balls are drawn one after another without replacement from a bag containing 4 White and 3 Black. What is the probability that the first ball is White and second ball is Black?

26. **A Family has 3 Children. What is the probability that they celebrate the Birthday on different dates.**

27. What is the probability that a year has 53 Sundays or 53 Mondays or 53 Tuesdays.

28. A pack has 52 cards with 2 Extra Jokers. Find the probability of getting King Spade card.

29. A problem in Statistics is given to two students A and B. The odds favouring A in solving is 3 : 2 and the odds against B in solving are 4 : 3. Find the probability that the problem is solved.
30. Two candidates A and B applied for two vacancies for the same post. The chances of A being selected are 60% and that of B are 80%. Find the probability that
- 'A' alone is selected
 - Both of them are selected
 - At least one of them is selected
 - None of them is selected.
 - Exactly one is selected.
31. 3 Horses A, B, C are in a Race. A's winning chance is Twice of B; B's winning is twice of C. Find the probability of each horse winning.
32. A team of 4 is to be formed from 6 Boys and 5 Girls. Find the probability that the team includes exactly 2 Girls.
33. A's getting Scholarship is 0.6 and B's getting Scholarship is 0.7. Find the probability of at least one of them is getting Scholarship.
34. A committee of 5 is to be formed from 8 Boys and 3 girls. What is the probability that if two particular girls are included in the committee.
35. Four couples are placed in a room. Two persons are selected. Find the probability that they are a Gentleman and a Lady but not a Couple.
36. A bag contains 6 Red Balls and Some Blue Balls. If Probability of Drawing a Blue Ball is Twice that of a Red Ball. Find number of Blue Balls
- 10
 - 12
 - 14
 - 16
37. Two dice are rolled on. Find the probability of getting a Multiples of 2 on one die and multiple of 3 on the other.
38. A Cricket team winning a match at Kanpur is $\frac{2}{5}$ and losing at Delhi is $\frac{1}{7}$. What is the probability of winning of winning at least one match?
39. Two cards are drawn from a pack of 52 cards one after another without replacement. What is the probability that
- Both are Spades
 - First Card is Red and Second Card is ~~Blue~~. black
40. A Bag contains 2 Red 3 Green and 2 Blue Balls. Two Balls are drawn at random. Find the probability that none of them is Blue.
41. In a game of cards, are distributed equally among 4 players. What is the probability that a specific player get all the 4 kings.
42. 'A' can hit the Target 3 out of 6 shots and 'B' can hit 4 out of 5 shots. Find the probability of hitting the target.
43. A die is thrown twice. Find the probability that the sum of the numbers is divisible by 4.

44. Sum of the face numbers, when 2 dice are rolled on in S. The probability of S is maximum. Then S is ____
- 5
 - 7
 - 6
 - 8
45. Find the probability of getting exactly 2 Heads if 3 coins are tossed.
46. When an unbiased die is rolled on odds in favour of getting multiples of 3.
47. Probability of getting at least 3 Heads in 8 tosses of unbiased coins is.
48. If 7:6 are the odd favourites a person. A will alive next 5 years and odds favouring B living for next five year 5:3. Find the probability that atleast one of the alive for next 5 years.
49. A bag contains 6 Green and 5 Red balls. What is the probability of getting a Red ball.
50. Two dice are tossed. Find the probability that the sum of the face nos. Is divisible by 4 or 3.
51. The 2 different dice are rolled on simultaneously. Find the probability that the sum of face nos is 9.
52. Probability that a leap year has 53 Wednesday.
53. A coin is tossed six times. Find the probability of getting heads and tails alternatively.
54. Ram is known to hit the target in 2 out of 3 shots. Shyam hits the target 5 out of 11 shots. What is the probability that the target is hit, if both of them tries.
55. Two letters are taken from the letters of the word 'HOME'. What is the probability that none of the letter is Vowel.
56. Find the chance of getting 7 or 11 if two dice are thrown.
57. A bag contains 15 "One Rupee coins", 25 "Two Rupee coins" and 10 "Five Rupee coins". A coin is taken at random. Find the probability that the coin is not one rupee coin
58. 3 dice are roled on. Find the probability that atleast one die show face number 6.
59. Sum of all probabilities of mutually exclusive and exhaustive is
a.0 b. 1 c.1/2 d.none
60. A bag contains 3 White and 5 Red balls. Another bag contains 4 White and 2 Red balls. A ball is chosen from each bag. Find the probability that both balls are white.
61. There are 6 positive integers and 8 negative integers. Four integers are taken at a time. They are multiplied. What is the possibility that the product is positive.
62. A bag contains 4R and 5B balls. Another bag contains 5R and 3B balls. A ball is taken from each bag. Find the probability that one ball is red and another is black.
63. 2 Dice are rolled. Find the probability of getting atleast one die which shows face no. 4
64. A, B, C are mutually exclusive and exhaustive. $P(A)= 2P(B)=3P(C)$. Find $P(B)$
65. A product has 2 components A and B. Probability that A is defective is 8% and probability that B is defective is 5%. What is the probability that the product is defective? A person bought 1000 units of the product. How many of them are defective?