(a) 1/4 (b) 3/8 (c) ½  10. A letter is chosen at random from the letters			
(a) 6/13 (b) 7/13 (c) 1	(d) none of th		
11. A dice is thrown. Find the probability of gettin (A) 2/3 (B) 1 (C) 5/6 (D)	g an even num	ber.	
12. Two coins are thrown at the same time. Find to getting both heads.  (A) 3/4 (B) 1/4 (C) 1/2 (D) 0	he probability	of	
13. Two dice are thrown simultaneously. The prob	ability of getting	ng a	
sum of 9 is:			
sum of 9 is:			
(4) 1/10 (0) 0/10	4/9		
(4) 1/10 (0) 0/10		•	

(A) 1/6 (A) (C) (A) 1228 - (B) (A)

申しのも目の

	1. The probabil Sunday is:	ity of a leap yea	ar selected at ra	andom contain 53
		(b) 1/7	(c) 2/7	(d) 53/365
				marble is drawn at
	random. The pro			
			(c) 0/5	
				0.85. What is the
	probability that i			
				(d) none of these
			The state of the s	ted from the numbers
	(1, 2, 3,,1			
			(c) 2/15	(d) 1/3
	5. What are the			The state of the s
	(a) 4	(b) 5	(c) 8	(d) 7
	6. The probabil	ity that a prime	number select	ed at random from the
	numbers (1,2,3,			
	(a) 12/35	(b) 11/35	(c) 13/35	(d) none of these
	7. The sum of the			
	(a) 2	(b) 1 (c)	0 (d) nor	ne of these.
	8. The followin	g probabilities	are given; choos	se the correct answer
	for that which is			
	(a) 0.15	(b) 2//	(c) 7/5	(d) none of these.
	9. If three coins	are tossed sim	nultaneously, th	an the probability of
	getting at least 1	(b) 3/8	/a\1/	(1) - :-
	10. A letter is o	hosen at rando	(C) /2	(d) 1/8
	ASSASSINAT	IONA The pro	hability that the	ers of the word letter chosen has:
E III O	<b>5</b> 0 <b>6 8</b>		bability that the	letter chosen has:

	(B) 10	(C) 15	(D) 20	
		s contains 12 d		
taken out	at random for	rom this box. 7	hen the prob	ability that it is
(A) 143/1			(C) 1/25	(D) 1/50
(-, -, -, -, -, -, -, -, -, -, -, -, -, -	(5)	147/100	(0) 1/23	(D) 1/30
17. Cards	marked with	numbers 2 to	101 are plac	ed in a box and
mixed tho	roughly. On	e card is drawn	from this ho	x randomly, then
the proba	bility that the	e number on ca	ard is a perfe	et square
(A) 9/100	(B) 1/10	0 (C) 3/10	(D) 19/	100
			Andrew Control	
18. What	is the proba	bility of getting	g 53 Mondays	in a leap year?
(A) 1/7	(B) 53/36	66 (C) 2/		7/366
10 4	d:- d			
19. A Car	a is arawn fr	om a well shut	fled deck of	2 cards. Find the
	y or getting a	a king of red su		
(A) 1/26	(B) 3/20	(C) 7/52	(D) 1/13	
(A) 1/26				
(A) 1/26	ne of chance	consists of sr	inning an arr	our subjek in
(A) 1/26 20. A gan	ne of chance	consists of sp	oinning an arr	ow which is
(A) 1/26 20. A gar equally lik	cely to come	to rest pointin	g to one of th	e number
(A) 1/26 20. A gan equally lik 1,2,31	cely to come 2, then the p	to rest pointin	g to one of th	e number an odd number is

21. A game consists of tossing a one rupee coin 3 times and noting its outcome each time. Aryan wins if all the tosses give the same result i.e. three heads or three tails and loses otherwise. Then the probability that Aryan will lose the game. (A) 3/4 (B) 1/2 (C) 1

(D) 1/4

22. Riya and Kajal are friends. Probability that both will have the same birthday is the same birthday is: (A) 364/365 (B) 31/365 (C) 1/365

(D) 1/133225

23. A number x is chosen at random from the numbers -2, -1, 0, 1, 2. Then the probability that x2 < 2 is?

(A) 1/5

(B) 2/5 (C) 3/5 (D) 4/5

24. A jar contains 24 marbles. Some are red and others are white. If a marble is drawn at random from the jar, the probability that it is red is 2/3, then the number of white marbles in the jar is:

(A) 10

(B) 6

A number is colouted at random from first 50 natural numbers

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25. A number is selected at random from first 50 natural numbers. Then the probability that it is a multiple of 3 and 4 is: (A) 7/50 (B) 4/25 (C) 1/25 (D) 2/25

26. Consider a dice with the property that that probability of a face with n dots showing up is proportional to n. The probability of face showing 4 dots is?

c)  $\frac{1}{21}$  d)  $\frac{4}{21}$ 

27. Runs scored by batsman in 5 one day matches are 50, 70, 82,

93, and 20. The standard deviation is \_\_\_\_\_.

a) 25.79

b) 25.49

c) 25.29

d) 25.69

28. Find median and mode of the messages received on 9 consecutive days 15, 11, 9, 5, 18, 4, 18, 13, 17.

a) 13, 15

b) 13, 18 c) 18, 15

d) 13, 16

29. A coin is tossed up 4 times. The probability that tails turn up in 3 cases is \_\_\_\_\_.

b)  $\frac{1}{3}$ 

c) 1/4

30. X is a variate between 0 and 3. The value of E(X2) is \_\_\_\_

a) 8

b) 7

c) 27

31. The random variables X and Y have variances 0.2 and 0.5 respectively. Let Z= 5X-2Y. The variance of Z is?

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- a) 3
- b) 4

c) 5

d) 7

32.Out of the following values, which one is not possible in probability?

- a) P(x) = 1
- b)  $\sum x P(x) = 3$
- c) P(x) = 0.5
- d) P(x) = -0.5

33.If E(x) = 2 and E(z) = 4, then E(z - x) = ?

- a) 2
- b) 6

c) 0

d) Insufficient data

34. The covariance of two independent random variable is

a) 1

b) 0

c) - 1

d) Undefined

35.If  $\Sigma P(x) = k^2 - 8$  then, the value of k is?

a) 0

b) 1

c) 3

d) Insufficient data

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41. What is the mean and variance for standard normal distribution?

4

- a) Mean is 0 and variance is 1 b) Mean is 1 and variance is 0
- c) Mean is 0 and variance is  $\infty$  d) Mean is  $\infty$  and variance is 0

42. Variance of a random variable X is given by \_\_\_\_\_

- a) E(X)
- b) E(X2) c) E(X2) (E(X))2
- d) (E(X))2

43.Mean of a random variable X is given by \_\_\_\_\_

- a) E(X)
- b) E(X2) c) E(X2) (E(X))2
- d) (E(X))2

44.Mean of a constant 'a' is \_\_\_\_\_

a) 0

b) a

c) a/2

d) 1

45. Variance of a constant 'a' is \_\_\_\_\_.

a) 0

b) a

c) a/2

d) 1

46 Find the mean and variance of X?

(M) (□) (125% +

36.If P(x) = 0.5 and x = 4, then E(x) = ?

a) 1

b) 0.5

c) 4

d) 2

37.In a discrete probability distribution, the sum of all probabilities is always?

a) 0

b) Infinite

c) 1

d) Undefined

38.If the probability of hitting the target is 0.4, find mean and variance.

a) 0.4, 0.24

b) 0.6, 0.24 c) 0.4, 0.16 d) 0.6, 0.16

39.If the probability that a bomb dropped from a place will strike the target is 60% and if 10 bombs are dropped, find mean and variance?

a) 0.6, 0.24

b) 6, 2,4

c) 0.4, 0.16

d) 4, 1.6

40. Find the mean of tossing 8 coins.

a) 2

b) 4

c) 8

d) 1

41. What is the mean and variance for standard normal distribution?

46. Find the mean and variance of X?

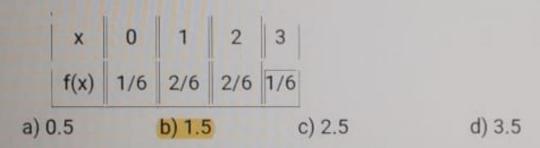
×	0	1	2	3	4
f(x)	1/9	2/9	3/9	2/9	1/9

- a) 2, 4/3
- b) 3, 4/3

c) 2, 2/3

d) 3, 2/3

47. Find the expectation of a random variable X?



48. In a Binomial Distribution, if p, q and n are probability of success, failure and number of trials respectively then variance is given by

5





b) npq

c) np2q

d) npq2

49. If 'X' is a random variable, taking values 'x', probability of success and failure being 'p' and 'q' respectively and 'n' trials being conducted, then what is the probability that 'X' takes values 'x'? Use Binomial Distribution.

- a) P(X = x) = nCx px qx
- b) P(X = x) = nCx px q(n-x)
- c) P(X = x) = xCn qx p(n-x)
- d) P(x = x) = xCn pn qx

50. If 'p', 'q' and 'n' are probability pf success, failure and number of trials respectively in a Binomial Distribution, what is its Standard Deviation?

- a)  $\sqrt{np}$  b)  $\sqrt{pq}$  c) (np)2
- d)  $\sqrt{npq}$









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