MYMENSINGH GIRLS' CADET COLLEGE

SECOND TERM END EXAMINATION - 2025

CLASS: XII

MULTIPLE CHOICE QUESTIONS

STATISTICS

SECOND PAPER

[According to the Syllabus of 2026] TIME – 25 minutes

FULL MARKS – 25

Subject	Code:	1	3	0

Set: Ka

[N.B. – Answer all the questions. Each question carries ONE mark. Block fully, with a black ball-point pen, the circle of the letter that stands for the correct/best answer in the "Answer sheet" for the Multiple Choice Questions Examination.]

Candidates are asked not to leave any mark or spot on the question paper.

1. Which is an example of time series of	l. Whic	s data?
--	---------	---------

- (a) Number of calls received by a call center each month
- (b) Height of children at different ages
- (c) Tota salary of all employees at a company
- (d) Population of different countries in 2020

2. Which can measure trend most precisely?

(a) Graphical method

(b) Semi-average method

(c) Moving average method

(d) Quarter-average method

Answer the next THREE questions based on the following information

Year	2016	2017	2018	2019	2020	2021	2022	2023
USD Exchange Rate	78.35	79.49	82.87	83.26	84.60	84.37	85.80	106.70

3. What is the second value of semi-average method?

- (a) 85.40
- (b) 90.37
- (c) 91.73
- (d) 89.78

4. What kind of a trend do the data have?

(a) Upward

- (b) Downward
- (c) Both upward & downward
- (d) No trend

5. Which component of time series is visible in the later part of the data?

- (a) Seasonal Variation (b) General Trend
- (c) Irregular Variation
- (d) Cyclic Variation

6.
$$^{n}p_{r} =$$

(a)
$$\frac{n!}{(n-r)!}$$

(b)
$$\frac{n!}{(n+r)!}$$

(c)
$$\frac{n!}{r!}$$

(d)
$$\frac{n!}{(r-n)!}$$

7. The probability of two disjoint sets happening together is:

- (a) 0.5
- (b) 0
- (c) 1
- (d) $0 \le x < 1$

8. $P(A \cap B) = P(A) \times P(B)$ implies A & B are –

- (a) Disjoint
- (b) Independent
- (c) Joint
- (d) Independent

9. Tossing a die r times generates how many outcomes?

- (b) r^6
- (c) 6^r
- (d) 2^r

Answer the next three questions using the following information

$$P(C) = \frac{2}{5}, P(D) = \frac{3}{4} \& P(C \cup D) = \frac{9}{10}$$

10. $P(C \cap D) = ?$

- (a) $\frac{1}{10}$
- (b) $\frac{1}{4}$
- (c) $\frac{7}{20}$
- (d) $\frac{4}{5}$

11.
$$P(C \cap \bar{D}) = ?$$

- (a) $\frac{1}{10}$
- (b) $\frac{2}{5}$
- (c) $\frac{2}{20}$
- (d) $\frac{3}{10}$

	(a) $\frac{17}{20}$	(b) $\frac{7}{10}$	(c) $\frac{3}{4}$	(d) $\frac{11}{20}$
	Answer the next TV	WO questions based o	n the following inform	nation.
	An urn contains 5 red,	7 blue, and 8 green balls	S.	
13.	What is the probabi	ility that the ball dra	wn is red?	
	(a) 0.26	(b) 0.25	(c) 0.2	(d) 0.4
14.	P(The ball drawn is	not blue)–		
	(a) $\frac{13}{20}$	(b) 0.5	(c) $\frac{7}{20}$	(d) $\frac{8}{20}$
15.	Which one is NOT a	an example of a conti	nuous random variabl	e –
	(a) Weight	(b) Height	(c) Time	(d) Size of television
16.	The properties of a i. $\sum P(X) = 1$	discrete probability d	listribution table are–	
	ii. $P(X) \ge 0$ for all X			
	iii. Each probability co	erresponds to a discrete v	value.	
	Which one is correc	t?		
	(a) i and ii	(b) ii and iii	(c) i and iii	(d) i, ii, and iii
17.	What is $F(-\infty)$ for a	a distribution functio	$\mathbf{n} F(x)$?	
	(a) $-\infty$	(b) -1	(c) 0	(d) 1
	Answer the next two	o questions based on	the following information	tion
		$\frac{x}{P(x)}$	$\begin{array}{c ccccccccccccccccccccccccccccccccccc$	
18.	What is $F(2)$?			
	(a) $\frac{2}{3}$	(b) $\frac{5}{6}$	(c) $\frac{1}{2}$	(d) 1
19.	$P(1 < X \le 2)$			
	(a) $\frac{5}{6}$	(b) $\frac{2}{3}$	(c) $\frac{1}{2}$	(d) $\frac{1}{6}$
20.	If $E(X) = 4$ and $V(X)$	$E(X) = 5$, what is $E(X^2)$?		
	(a) 9	(b) 16	(c) 21	(d) 25
21	E(4x+2Y) = ?	,	, ,	. ,
-1 .		(b) $4E(X) + 2E(Y)$	(c) $2E(X) + 4E(Y)$	(d) $E(X) \times E(Y)$
22.				value of the random variabl
	from their mean?			
	(a) Arithmetic Mean	(b) Expectation	(c) Variance	(d) Co-variance
23.	If $E(X) = -0.5$, then	E(1-2X) = ?		
	(a) 0	(b) -1	(c) 2	(d) 1
24.	The possible relation i. $E(X) \ge E(X^2)$ ii. $E(X) \le E(X^2)$ iii. $E(X) = E(X^2)$	nship between $E(X)$ an	$ndE(X^2)$	
	Which one is correc	t?		
	(a) i and ii	(b) i and iii	(c) ii and iii	(d) i, ii and iii
25.	What is the value of	f V(2X+5)?		
	(a) $4V(X) - 5$	(b) 20	(c) $4V(X)$	(d) 0
	"W	, •	another person with an c Edwards Deming	ppinion."

12. What is the probability that D occurs or C does not occur?

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STATISTICS

SECOND PAPER

[According to the Syllabus of 2026]

Subject Code:	1	3	0

Set: Kha

TIME-25 minutes FULL MARKS - 25

[N.B. – Answer all the questions. Each question carries ONE mark. Block fully, with a black ball- point pen, the circle of the letter that stands for the correct/best answer in the "Answer sheet" for the Multiple

r	,	Choice Question	ons Examination.								
	Candidates are	e asked not to leave ar	ny mark or spot on the	e question paper.							
1.	$^{n}p_{r}=$										
	(a) $\frac{n!}{(n-r)!}$	(b) $\frac{n!}{(n+r)!}$	(c) $\frac{n!}{r!}$	(d) $\frac{n!}{(r-n)!}$							
2.	The probability of tw	vo disjoint sets happe	ning together is:								
	(a) 0.5	(b) 0	(c) 1	(d) $0 \le x < 1$							
3.	$P(A \cap B) = P(A) \times P(A)$	B) implies A & B are	_								
	(a) Disjoint	(b) Independent	(c) Joint	(d) Independent							
4.	Tossing a die r times	generates how many	outcomes?								
	(a) $6 \times r$	(b) r^6	(c) 6^r	(d) 2^r							
	Answer the next three questions using the following information										
	$P(C) = \frac{2}{5}, P(D) = \frac{3}{4} \& F$	$P(C \cup D) = \frac{9}{10}$									
5.	$P(C \cap D) = ?$										
	(a) $\frac{1}{10}$	(b) $\frac{1}{4}$	(c) $\frac{7}{20}$	(d) $\frac{4}{5}$							
6.	$P(C \cap \bar{D}) = ?$										
	(a) $\frac{1}{10}$	(b) $\frac{2}{5}$	(c) $\frac{2}{20}$	(d) $\frac{3}{10}$							
7.	7. What is the probability that D occurs or C does not occur?										
	(a) $\frac{17}{20}$	(b) $\frac{7}{10}$	(c) $\frac{3}{4}$	(d) $\frac{11}{20}$							
	Answer the next TWO questions based on the following information.										
	An urn contains 5 red, '	7 blue, and 8 green balls.									
8.	What is the probabil	lity that the ball draw	n is red?								
	(a) 0.26	(b) 0.25	(c) 0.2	(d) 0.4							
9.	P(The ball drawn is	${\rm not \ blue})-$									
	(a) $\frac{13}{20}$	(b) 0.5	(c) $\frac{7}{20}$	(d) $\frac{8}{20}$							
10.	Which one is NOT a	n example of a contin	uous random variable	_							
	(a) Weight	(b) Height	(c) Time	(d) Size of television							
11.	The properties of a d	discrete probability di	stribution table are—								
	i. $\sum P(X) = 1$										
	ii. $P(X) \ge 0$ for all X										
	iii. Each probability cor	responds to a discrete va	lue.								
	Which one is correct		()	(1)							
	(a) i and ii	(b) ii and iii	(c) i and iii	(d) i, ii, and iii							
12.		distribution function									
	$(a) -\infty$	$(b)_{-1}$	(c) 0	(d) 1							

Answer the next two questions based on the following information

$$\begin{array}{c|ccccc} x & 1 & 2 & 3 \\ \hline P(x) & \frac{1}{3} & \frac{1}{2} & \frac{1}{6} \\ \end{array}$$

13.	What is $F(2)$?											
	(a) $\frac{2}{3}$	(b) $\frac{5}{6}$			(c) $\frac{1}{2}$			(d) 1				
14.	$P(1 < X \le 2)$											
	(a) $\frac{5}{6}$	(b) $\frac{2}{3}$			(c) $\frac{1}{2}$			(d) $\frac{1}{6}$				
15.	If $E(X) = 4$ and V	Y(X) = 5, what	at is $E(X)$	(X^2) ?								
	(a) 9	(b) 16			(c) 21			(d) 25				
16.	What is the value	e of V(2X+5)?									
	(a) $4V(X) - 5$	(b) 20			(c) $4V$	(X)		(d) 0				
17.	E(4x+2Y) = ?											
	(a) $E(X) - E(Y)$	(b) 4E(X	+ 2E(Y)	<i>(</i>)	(c) 2E((X) + 4	E(Y)	(d) $E(X) \times E(X)$	Y)			
18.	What is the expection their mean?		f of the s	squar	ed dev	iation	of the v	value of the rand	lom variable			
	(a) Arithmetic Mear	n (b) Expe	ctation		(c) Var	riance		(d) Co-variance				
19.	If $E(X) = -0.5$, th	en E(1-2X)) =?									
	(a) 0	(b) -1			(c) 2			(d) 1				
20.	The possible relat	tionship bety	ween $E(z)$	X) and	$E(X^2)$							
	i. $E(X) \ge E(X^2)$ ii. $E(X) \le E(X^2)$ iii. $E(X) = E(X^2)$											
	Which one is corr	ect?										
	(a) i and ii	(b) i and	iii		(c) ii a	nd iii		(d) i, ii and iii				
21.	 Which is an example of time series data? (a) Number of calls received by a call center each month (b) Height of children at different ages (c) Tota salary of all employees at a company (d) Population of different countries in 2020 											
22.	Which can measu	re trend mo	st precis	sely?								
	(a) Graphical metho	od			(b) Ser	ni-aver <i>a</i>	age meth	nod				
	(c) Moving average	method			(d) Qu	arter-av	verage m	nethod				
	Answer the next	THREE que	stions b	ased	on the	follow	ing info	ormation				
US		2016 2017 78.35 79.49		2019 83.26	2020 84.60	2021 84.37	2022 85.80	2023 106.70				
23.	What is the secon	nd value of s	emi-aveı	rage r	\mathbf{nethod}	1?						
	(a) 85.40	(b) 90.37			(c) 91.	73		(d) 89.78				
24.	What kind of a tr	end do the	data hav	ve?								
	(a) Upward				(b) Do	wnward						
	(c) Both upward & o	downward			(d) No	trend						
25.	Which component	t of time ser	ies is vis	sible i	n the	later p	art of t	the data?				
	(a) Seasonal Variation	on (b) Gene	ral Trend		(c) Irre	egular V	ariation	(d) Cyclic Varia	ation			
	,	"Without data		-	_	erson w Deming		opinion."				
		"Without data		-	_			opinion."				

ii. $E(X) \le E(X^2)$ iii. $E(X) = E(X^2)$

(a) i and ii

Which one is correct?

(b) i and iii

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STATISTICS

SECOND PAPER

[According to the Syllabus of 2026] TIME – 25 minutes

FULL MARKS – 25

Subject Code: 1 3

1 3 0

Set:

Ga

[N.B. – Answer all the questions. Each question carries ONE mark. Block fully, with a black ball- point pen, the circle of the letter that stands for the correct/best answer in the "Answer sheet" for the Multiple Choice Questions Examination.]

Candidates are asked not to leave any mark or spot on the question paper.

1.	Which one is NOT a	n example of a contin	uous random variable	_								
	(a) Weight	(b) Height	(c) Time	(d) Size of television								
2.	i. $\sum P(X) = 1$ ii. $P(X) \ge 0$ for all X	discrete probability discrete values										
	Which one is correct	-										
	(a) i and ii	(b) ii and iii	(c) i and iii	(d) i, ii, and iii								
3.	What is $F(-\infty)$ for a	distribution function	F(x)?									
	(a) $-\infty$	(b) -1	(c) 0	(d) 1								
	Answer the next two	questions based on t	he following informati	on								
	$\begin{array}{c c c} x & 1 & 2 & 3 \\ \hline P(x) & \frac{1}{3} & \frac{1}{2} & \frac{1}{6} \end{array}$											
4.	What is $F(2)$?											
	(a) $\frac{2}{3}$	(b) $\frac{5}{6}$	(c) $\frac{1}{2}$	(d) 1								
5.	$P(1 < X \le 2)$											
	(a) $\frac{5}{6}$	(b) $\frac{2}{3}$	(c) $\frac{1}{2}$	(d) $\frac{1}{6}$								
6.	If $E(X) = 4$ and $V(X)$	$) = 5$, what is $E(X^2)$?										
	(a) 9	(b) 16	(c) 21	(d) 25								
7.	What is the value of	V(2X+5)?										
	(a) $4V(X) - 5$	(b) 20	(c) $4V(X)$	(d) 0								
8.	E(4x+2Y) = ?											
	(a) $E(X) - E(Y)$	(b) 4E(X) + 2E(Y)	(c) 2E(X) + 4E(Y)	(d) $E(X) \times E(Y)$								
9.	What is the expected from their mean?	d value of of the squar	red deviation of the va	llue of the random variable								
	(a) Arithmetic Mean	(b) Expectation	(c) Variance	(d) Co-variance								
10.	If $E(X) = -0.5$, then	E(1-2X) = ?										
	(a) 0	(b) -1	(c) 2	(d) 1								
11.	The possible relation i. $E(X) \ge E(X^2)$	nship between $E(X)$ and	$dE(X^2)$									

(c) ii and iii

(d) i, ii and iii

	(b) Height of children(c) Tota salary of a(d) Population of d	ıll emplo	yees at	a com							
13.	Which can meas	ure trei	nd mo	st pred	cisely?						
(a) Graphical method (b) Semi-average m											
	(c) Moving average	method	[(d) Quarter-average method					
	Answer the next	THRE	E que	stions	based	on the	follow	ing info	rmati	on	
	Year	2016	2017	2018	2019	2020	2021	2022	2023		
US	SD Exchange Rate		79.49	82.87	83.26	84.60	84.37	85.80	106.70)	
						_					
14.	What is the seco				erage 1				(1)	00 =0	
	(a) 85.40	(b) 90.37			(c) 91.	73		(d)	89.78	
15.	What kind of a t	rend d	o the	data h	ave?						
	(a) Upward					(b) Do	wnward				
	(c) Both upward &	downwa	ard			(d) No	trend				
16.	Which componen	nt of tir	ne ser	ies is v	visible	in the	later p	art of t	he da	ta?	
	(a) Seasonal Variat	ion (b) Gene	ral Trer	nd	(c) Irre	egular V	⁷ ariation	(d)	Cyclic Variation	
17.	$^{n}p_{r}=$										
	(a) $\frac{n!}{(n-r)!}$	(b	$) \frac{n!}{(n+1)!}$	$\overline{r)!}$		(c) $\frac{n!}{r!}$			(d)	$\frac{n!}{(r-n)!}$	
18.	The probability	of two	disjoin	t sets	happeı	ning to	gether	is:			
	(a) 0.5	(b) 0			(c) 1			(d)	$0 \le x < 1$	
19.	$P(A \cap B) = P(A)$	$\times P(B)$	implie	es A &	B are	_					
	(a) Disjoint			endent		(c) Joi	nt		(d)	Independent	
20.	Tossing a die r ti	imes ge	nerat <i>e</i>	es how	manv	outcon	nes?				
	(a) $6 \times r$	O) r^6		1110111	(c) 6^r	.2021		(d)	2^r	
	Answer the next	`	/	ons usi	ng the	` /	ing info	ormatic	()		
	$P(C) = \frac{2}{5}, P(D) =$	$\frac{3}{4}\&P(C$	$\cup D) =$	$=\frac{9}{10}$							
21.	$P(C \cap D) = ?$										
	(a) $\frac{1}{10}$	(b	$\frac{1}{4}$			(c) $\frac{7}{20}$			(d)	$\frac{4}{5}$	
22.	$P(C \cap \bar{D}) = ?$										
	(a) $\frac{1}{10}$	(b	$\frac{2}{5}$			(c) $\frac{3}{20}$			(d)	$\frac{3}{10}$	
23.	What is the prob	oability	that	D occu	ırs or (C does	not oc	cur?			
	(a) $\frac{17}{20}$		$\frac{7}{10}$			(c) $\frac{3}{4}$			(d)	$\frac{11}{20}$	
	Answer the next		10	ons ba	sed on	` / 4	llowing	g inforn			
	An urn contains 5		_								
24.	What is the prob	oability	that	the bal	ll draw	n is rec	d?				
	(a) 0.26	•) 0.25			(c) 0.2			(d)	0.4	
25	P(The ball draw)	`	,	_		. /			. /		
- ∪.	(a) $\frac{13}{20}$) 0.5	•		(c) $\frac{7}{20}$			(d)	8	
	20		,			_0					
		"Witho	ut data		-	nother p dwards		vith an o	pinion		

12. Which is an example of time series data?

(a) Number of calls received by a call center each month

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STATISTICS

SECOND PAPER

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TIME – 25 minutes

Subject Code: $\boxed{1}$ $\boxed{3}$ $\boxed{0}$

Set: Gha

FULL MARKS – 25

[N.B. – Answer all the questions. Each question carries ONE mark. Block fully, with a black ball- point pen, the circle of the letter that stands for the correct/best answer in the "Answer sheet" for the Multiple Choice Questions Examination 1

	Candidates are asked not to leave any mark or spot on the question paper.										
1.	What is the value of	V(2X+5)?									
	(a) $4V(X) - 5$	(b) 20	(c) $4V(X)$	(d) 0							
2.	If $E(X) = 4$ and $V(X)$	$=5$, what is $E(X^2)$?									
	(a) 9	(b) 16	(c) 21	(d) 25							
3.	E(4x+2Y) = ?										
	(a) $E(X) - E(Y)$	(b) $4E(X) + 2E(Y)$	(c) 2E(X) + 4E(Y)	(d) $E(X) \times E(Y)$							
4.	What is the expected	d value of of the squar	ed deviation of the va	lue of the random variable							

- from their mean? (a) Arithmetic Mean (b) Expectation (c) Variance (d) Co-variance
- 5. If E(X) = -0.5, then E(1 2X) = ?
 - (a) 0
- (b) -1
- (c) 2
- (d) 1
- 6. The possible relationship between E(X) and $E(X^2)$
 - i. $E(X) \ge E(X^2)$
 - ii. $E(X) \leq E(X^2)$
 - iii. $E(X) = E(X^2)$

Which one is correct?

- (a) i and ii
- (b) i and iii
- (c) ii and iii
- (d) i, ii and iii

- 7. Which is an example of time series data?
 - (a) Number of calls received by a call center each month
 - (b) Height of children at different ages
 - (c) Tota salary of all employees at a company
 - (d) Population of different countries in 2020
- 8. Which can measure trend most precisely?
 - (a) Graphical method

(b) Semi-average method

(c) Moving average method

(d) Quarter-average method

Answer the next THREE questions based on the following information

Year	2016	2017	2018	2019	2020	2021	2022	2023
USD Exchange Rate	78.35	79.49	82.87	83.26	84.60	84.37	85.80	106.70

- 9. What is the second value of semi-average method?
 - (a) 85.40
- (b) 90.37
- (c) 91.73
- (d) 89.78

- 10. What kind of a trend do the data have?
 - (a) Upward

- (b) Downward
- (c) Both upward & downward
- (d) No trend
- 11. Which component of time series is visible in the later part of the data?
 - (a) Seasonal Variation (b) General Trend
- (c) Irregular Variation (d) Cyclic Variation

12.	$^{n}p_{r}=$			
	(a) $\frac{n!}{(n-r)!}$	(b) $\frac{n!}{(n+r)!}$	(c) $\frac{n!}{r!}$	(d) $\frac{n!}{(r-n)!}$
13.	The probability of two disjoint sets happening together is:			
	(a) 0.5	(b) 0	(c) 1	(d) $0 \le x < 1$
14.	$P(A \cap B) = P(A) \times P(B)$ implies A & B are -			
	(a) Disjoint	(b) Independent	(c) Joint	(d) Independent
15.	Tossing a die r times generates how many outcomes?			
	(a) $6 \times r$	(b) r^6	(c) 6^r	(d) 2^r
	Answer the next three questions using the following information $P(C) = \frac{2}{5}, P(D) = \frac{3}{4} \& P(C \cup D) = \frac{9}{10}$			
16.	$P(C \cap D) = ?$			
	(a) $\frac{1}{10}$	(b) $\frac{1}{4}$	(c) $\frac{7}{20}$	(d) $\frac{4}{5}$
17.	$P(C \cap \bar{D}) = ?$			
	(a) $\frac{1}{10}$	(b) $\frac{2}{5}$	(c) $\frac{2}{20}$	(d) $\frac{3}{10}$
18.	What is the probability that D occurs or C does not occur?			
	(a) $\frac{17}{20}$	(b) $\frac{7}{10}$	(c) $\frac{3}{4}$	(d) $\frac{11}{20}$
	Answer the next TW	O questions based or	the following informa	ation.
	An urn contains 5 red, 7 blue, and 8 green balls.			
19.	What is the probabil	lity that the ball draw	n is red?	
	(a) 0.26	(b) 0.25	(c) 0.2	(d) 0.4
20.	P(The ball drawn is not blue)-			
	(a) $\frac{13}{20}$	(b) 0.5	(c) $\frac{7}{20}$	(d) $\frac{8}{20}$
21.	Which one is NOT an example of a continuous random variable –			
	(a) Weight	(b) Height	(c) Time	(d) Size of television
22.	The properties of a discrete probability distribution table are— i. $\sum P(X) = 1$ ii. $P(X) \geq 0$ for all X iii. Each probability corresponds to a discrete value. Which one is correct?			
	(a) i and ii	(b) ii and iii	(c) i and iii	(d) i, ii, and iii
23.		distribution function		
	$(a) -\infty$	(b) -1	(c) 0	(d) 1
	Answer the next two questions based on the following information			
	$\begin{array}{c cccc} x & 1 & 2 & 3 \\ \hline P(x) & \frac{1}{3} & \frac{1}{2} & \frac{1}{6} \end{array}$			
24.	What is $F(2)$?			
	(a) $\frac{2}{3}$	(b) $\frac{5}{6}$	(c) $\frac{1}{2}$	(d) 1
25.	$P(1 < X \le 2)$			
	(a) $\frac{5}{6}$	(b) $\frac{2}{3}$	(c) $\frac{1}{2}$	(d) $\frac{1}{6}$
	"Without data, you're just another person with an opinion." — William Edwards Deming			

Answer Key

- 1. (a) Number of calls received by a tall (den Size and television
- 2. (c) Moving average method
- 3. (b) 90.37
- 4. (a) Upward
- 5. (c) Irregular Variation
- 6. (a) $\frac{n!}{(n-r)!}$
- 7. (b) 0
- 8. (b) Independent
- 9. (c) 6^r
- 10. (b) $\frac{1}{4}$
- 11. (c) $\frac{2}{20}$
- 12. (a) $\frac{17}{20}$
- 13. (a) 0.26
- 14. (a) $\frac{13}{20}$
- 15. (d) Size of television
- 16. (d) i, ii, and iii
- 17. (c) 0
- 18. (b) $\frac{5}{6}$
- 19. (c) $\frac{1}{2}$
- 20. (c) 21
- 21. (b) 4E(X) + 2E(Y)
- 22. (c) Variance
- 23. (c) 2
- 24. (d) i, ii and iii
- 25. (c) 4V(X)
- 1. (a) $\frac{n!}{(n-r)!}$
- 2. (b) 0
- 3. (b) Independent
- 4. (c) 6^r
- 5. (b) $\frac{1}{4}$
- 6. (c) $\frac{2}{20}$
- 7. (a) $\frac{17}{20}$
- 8. (a) 0.26
- 9. (a) $\frac{13}{20}$

- 11. (d) i, ii, and iii
- 12. (c) 0
- 13. (b) $\frac{5}{6}$
- 14. (c) $\frac{1}{2}$
- 15. (c) 21
- 16. (c) 4V(X)
- 17. (b) 4E(X) + 2E(Y)
- 18. (c) Variance
- 19. (c) 2
- 20. (d) i, ii and iii
- 21. (a) Number of calls received by a call center each month 5. (c) 2
- 22. (c) Moving average method
- 23. (b) 90.37
- 24. (a) Upward
- 25. (c) Irregular Variation
- 1. (d) Size of television
- 2. (d) i, ii, and iii
- 3. (c) 0
- 4. (b) $\frac{5}{6}$
- 5. (c) $\frac{1}{2}$
- 6. (c) 21
- 7. (c) 4V(X)
- 8. (b) 4E(X) + 2E(Y)
- 9. (c) Variance
- 10. (c) 2
- 11. (d) i, ii and iii
- 18. (a) $\frac{17}{20}$ 12. (a) Number of calls received by a call center each month
- 13. (c) Moving average method
- 14. (b) 90.37
- 15. (a) Upward
- 16. (c) Irregular Variation
- 17. (a) $\frac{n!}{(n-r)!}$
- 18. (b) 0
- 19. (b) Independent

- 20. (c) 6^r
- 21. (b) $\frac{1}{4}$
- 22. (c) $\frac{3}{20}$
- 23. (a) $\frac{17}{20}$
- 24. (a) 0.26
- 25. (a) $\frac{13}{20}$
- 1. (c) 4V(X)
- 2. (c) 21
- 3. (b) 4E(X) + 2E(Y)
- 4. (c) Variance

- 6. (d) i, ii and iii
- 7. (a) Number of calls received by a call
- 8. (c) Moving average method
- 9. (b) 90.37
- 10. (a) Upward
- 11. (c) Irregular Variation
- 12. (a) $\frac{n!}{(n-r)!}$
- 13. (b) 0
- 14. (b) Independent
- 15. (c) 6^r
- 16. (b) $\frac{1}{4}$
- 17. (c) $\frac{2}{20}$
- 19. (a) 0.26
- 20. (a) $\frac{13}{20}$
- 21. (d) Size of television
- 22. (d) i, ii, and iii
- 23. (c) 0
- 24. (b) $\frac{5}{6}$
- 25. (c) $\frac{1}{2}$