THIRD SEMESTER B.Com./B.B.A. DEGREE EXAMINATION, NOVEMBER 2016

(CUCBCSS—UG)

Common Course

A 11—BASIC NUMERICAL SKILLS

COMMERCE: 80 Marks

Time: Three Hours

7.0			-
	a	201	

			Lait		
			Answer all qu		
<i>u</i> 1.	A seri	es is obtained by adding a co	onstant numb	er to its preceding term is ——	
	The state of the s	G.P.	/r (b)	A.P.	
	(c)	The 1996 and the 1996 and the 1996 and	(d)	None.	
\s2.	Which	of the following measure is	based on all	the observations?	
	(a)	[10] [10] [10] [10] [10] [10] [10] [10]		G.M.	
	(c)	H.M.	(d)	All.	
√ 3.	Which	measure ensures highest d	egree of relial	oility?	
	eather so	Range.	· (b)	그리는 그는 그리고 있는 물리를 하고 있다. 그는 그는 그리고 있었다. 그리고 있는 그리고 있는 것이 없는 그 없는 그리는	
	(c)		(d)	QD.	
4.	Circle	diagram is also called :			
	(a)	Pictogram.	(b)	Cartogram.	
	(c)	Pie diagram.	(d)	None.	
5.	(— index is known as the 'id	eal' index.		
1	(a)	Laspeyre's.	The state of the s	Paasche's.	
	(c)	Fisher's.	(d)	Kelley's.	
_6.	Exampl	e of probability sampling is	ı:		
		Quota sampling.		Judgement sampling.	j kom
		Convenience sampling.	(d)	None.	
67.		nmon difference of the A.P.	1, -1, -3, -	5, ——— is :	
/		1.	(b)		
		- 2 .	(d)	2.	n en et e
	,•,				

Turn over

		and the second											
7	8. When	$A = \{a, i\}$	b}, its]	power se	t has —	ele	ment	s.					
		2.		£.,		, (p	8.			0.8			1182944
	(c)	1.				/s(q)	4.						
1	9. Statist	ics deal	s with										
	(a)	Qualit	ative o	data.		(p)	Qu	antita	tive da	ta.			
	(c)	Both.				(d)	No	ne of t	hese.			s at early	A ing
K 10	. A time	series i	s a set	of value	s arrang	ged in —		order.					
	(a)	Ascene	ding.			(b)	Des	cendi	ng.				
	√ (c)	Chron	ologica	d.		(d)	No	ne.	T.				
											($10\times 1=1$	0 marks)
				Pa	rt II (Sl	nort Ans	wer (l uesti	ons)		(4.7		
					Answer	any eigh	ht que	stions		0. A.	1 30		
11 .	. What is	power	set?										
. 12.	What is	a pie-d	iagran	n?								3 6	
/1 3.	What is	progres	ssion?									1 3	
p 14.	What d	o you u	nderst	and by o	classifica	tion of da	ata ?	442	.12	16		4 1	
-1 5.	Define 1	matrix.							`×	1	\ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \	- 1	ā.
- 16	Represe	nt A -	lartar is	9 an inter	mor r ² <	4) in ros	tor for	wo:	>	2/3	?		
						1) 111108	ret 101						
, 17.	Find mo		the fo) 	11		
	† Size	*	140	5	8	10	121	29		35	40	46	13
	V.	-			12		(fo)	31		20	18	7	× (0)
18.	P+2,4F	9-6, 3F	2-2a			*				and the second	lue of I	Ρ.	S.
►19 .	Solve: 3	x + 8 = 3	17.	330	48:17	32=17)-8	= 9	or =	13		ii.	
20.			ound i	nterest				veste					pounded
	semiann	ually.	2		100 (17 10/00 100)			14	10/00	1/12)	l6 marks)
		. 201	IN						(0)	0 (4)	7,00	$(8 \times 2 = 1)$	l6 marks)
	•				Part 1	II (Sho	rt Ess	ays)					
					Answe	r any six	ques	tions.					
21.	Define pr	rimary o	lata. S	tate the					ng prin	nary d	ata.		
	The third												
				1	ar ens b	I October 01	. 200 211				3 n=		

meddia Lang

Calculate median for the following data:

Class

5 - 1010-15 15-20 20-25

Frequency:

10

15

Consider the statement: "Integers between - 3 and 3". Write the roster and set builder forms. 24.

Solve 5y + y = 30.

Draw the less-than ogive of the following frequency distribution and locate the median there

12

from:

Marks

5449-30=0

20-30

30-40

50-60

60-70

11

No. of students

- In Mumbai city, there are 1000 families. A survey indicated that 300 subscribe to The Hindustan Times' daily newspaper and 250 Subscribe to 'The Indian Express daily newspaper. Of these two categories, 100 subscribe to both. Express the data using Venn diagram.
 - 28. A man travelled from one place to another at the rate of 20 kms/hour and returned at the rate of 30 kms/hour. Find the average speed in the whole journey.

 $(6 \times 4 = 24 \text{ marks})$

Part IV (Long Essays)

Answer any two questions.

From the following data find the trend values by 5 yearly moving averages:

Year

2000

2001

2002

2003

2004

2005

2006

2007 2008

Sales

.36

43

43

34

44

54

34

24

14

- 30. In an election 72,000 votes were casted. Out of four candidates, the first got 24,000 votes, the second got 20,000 votes, the third got 18,000 votes and the fourth got 10,000 votes. Draw a pie-chart for these data.
 - 31. Find the inverse of a matrix A given by:

$$A = \begin{bmatrix} 5 & -2 & 4 \\ -2 & 1 & 1 \\ 4 & 1 & 0 \end{bmatrix}.$$

A-1= [m]

 $(2 \times 15 = 30 \text{ marks})$

D	1235	1-A		
---	------	-----	--	--

(Pages: 4)

Name	***************************************
Reg. No	************************

THIRD SEMESTER B.Com./B.B.A. DEGREE EXAMINATION, NOVEMBER 2016

(CUCBCSS—UG)

Common Course

A 11-BASIC NUMERICAL SKILLS

(Multiple Choice Questions for SDE Candidates)

Time: 15 Minutes

Total No. of Questions: 20

Maximum: 20 Marks

INSTRUCTIONS TO THE CANDIDATE

- 1. This Question Paper carries Multiple Choice Questions from 1 to 20.
- 2. The candidate should check that the question paper supplied to him/her contains all the 20 questions in serial order.
- 3. Each question is provided with choices (A), (B), (C) and (D) having one correct answer. Choose the correct answer and enter it in the main answer-book.
- 4. The MCQ question paper will be supplied after the completion of the descriptive examination.

A 11-BASIC NUMERICAL SKILLS

(Multiple Choice Questions for SDE Candidates)

	•	(Multiple	luences	like
1.	A time	e series is unable to adjust the inf	(D)	
	► (A)	Customs and policy changes.	(B)	Seasonal changes.
	(C)	Long term influences.	(D)	None of these.
2.		— Index is based on the price an	ıd quant	ities of both base year and current year.
	(A)	Paasche's.	(B)	Laspeyer's.
	(C)	Fishers.	(D)	None of these.
3.	Measu	res of central tendency are called	d averag	es of the — order.
\	(A)	First.	(B)	Second.
	(C)	Third.	(D)	None.
4.		— is called positional measure.		
<u> </u>	(A)	Mean.	(B)	Median.
•	(AC)	Mode.	(D)	Harmonic mean.
5.	Index	number for the base period is alw		
		200.		The state of the s
			(B)	
	(C)		►(D)	
6.	Divided	bar chart is considered for :		
	(A)	Comparing different component	ts of a ve	ariable.
	(B)	The relation of different compor	ents to	the total.
	(C)	(A) or (B).		
	(D)	(A) and (B).		
7.	In chro	nological classification data are c	lassifiad	On the book of
	(A)	Attributes.	1 <u>1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 </u>	
		Time.	(B)	Class intervals.
			(D)	Area.

8	. In dire	ect personal investigation,	the investigate	or should be :
	(A)	Biased.	(B)	Tactful.
	(C)	Optimistic.	(D)	그리고 그리고 그 사람들이 아니라 아이들 아이들의 이렇게 하는 사람들이 아니는 아이들의 생활을 들어 하는 것을 받는 것을 하는 것을 살아 없다. 그리고 살아보는 것을 살아 없는 것을 살아 없다.
. 9.	A sing	le value which can repres	ent the whole s	et of data is called:
	(A)	Set.	(B)	Average.
	(C)	Interest.	(D)	Matrices.
№ 10.	The sec	cond quartile is equal to :	ωO⁄	Service Philipp Page 1977 (SI)
	(A)	Mean.	(Q) →(B)	Median.
	(C)	Mode.	(0)	Standard deviation.
\ 11.	Statist	ical results are :	graph the N	是一种。这种人,他们是各种。
	(A)	Absolutely correct.	(B)	Not true.
	√ (C)	True on an average.	(D)	Universally true.
12.	Tally n	narks determine :		The respect this section is
	\(A)	Class width.		Class boundary.
	(C)	Class Limit.	(D)	Class frequency.
13.	Bar dia	grams are :		
	(A)	One dimensional.	^ (B)	Two.
	(C)	Three.	(D)	None of these.
/14.	The poi	nt of intersection of the le	ess than and th	e greater than ogives corresponds to :
	(A)	Mean.	(B)	Mode.
	9(C)	Median.	(D)	Geometric Mean.
\15 .	In a rai	accident the appropriate	method of dat	a collection is :
	7 3 4 4 4 4	Personal enquiry.	\ (B)	Indirect oral investigation.
	(C)	Direct Interview.		All these.

16	. The di	fference between the maximum ar	nd the	minimum observation of the given data is called
	— (A)	Range.	(B)	Mean Deviation.
	(C)	Quartile Deviation.	(D)	Standard Deviation.
17.	A time	series is a set of data recorded :		
	(A)		(B)	At time intervals.
	~(C)	At successive points of time.	(D)	All the above.
18.	Index	numbers are :		
	(A)	Special type of averages.	(B)	Measure of the economic barometers.
	\(\) (C)	Measure of relative changes.	(D)	All of these.
19.	Consur	mer price Index number is constru	cted fo	r: CR/2 W/
	∀ (A)	A well defined section of people.	(B)	All people.
96	(C)	Factory workers only.	(D)	All the above.
20.	For a n	ormal distribution, $Q_3 + Q_1 - 2$ me	edian =	
	(A)	2.	(B)	1.
	(C)	3.	(D)	0.

12/3