D 91850		(Pag	es : 4)		Name	<u>}</u>	
					Reg. I	No	
THIRD SE	MESTER M.A.	DEGREE	EXAM	INATION,	DECI	EMBER 2015	
		(CU	JCSS)				
		Applied 1	Economi	cs			
Option ime: Three Hours	nal IV—COMPU7			IN ECONO		ANALYSIS aximum : 36 Weig	ghtage
			art A				
	Each bunch o	Answer <b>a</b> of <b>four</b> quest			ge of 1.		
A. Multiple ch		, 1					
1 Raiesh	Mehta wants to st of the following app	core data of l olications is a	his montl nost suita	nly expenditu able for this p	ure over ourpose	r the last financia ?	ıl year.
` '	Microsoft Word. Microsoft Outlook.			osoft Powerl osoft Excel.	Point.		
2 What k	ind of computer me	emory is nor	n-volatile <sup>(</sup>	?			
(a)	RAM.	(b) ROM.		(c) LOTUS	S.	(d) UNIX.	
3 What's	a quick way to exter	nd numbers i	in an Exce	el worksheet	to a long	ger sequence, for in	nstance
1 thro	ugh 20 ?						
(a)	Select both cells, a	and then dra	ıg the fill l	handle over t	the rang	ge you want, for i	nstance
(b)	18 more rows. Select the range ye	ou want, inc	lude both	cells, point t	to fill on	the edit menu, a	nd then
(c)	click down. Copy the second of arrow on the Past					ard toolbar click th	ne down
(d)	All of above.						
4 Formu	ılas in Excel start v	with:					
(a) B. Multiple c	%. hoice :	(b)		(c) +.		(d) @.	
-	ean value of a frequ	ienov distrib	ution is 2	n and the ma	adion wa	due is 07 The ma	de volue
	is frequency distrib	=		o and the me	aiaii va	uuc 18 41, 1116 1110	uc value

(b) 25.

(b) Histogram.

(a) 28.5.

(a) Polygon.

(d) 31.5.

(d) Ogive.

Turn over

(c) 21.

(c) Bar chart.

 $6~\mathrm{A}$  simple line graph of a frequency, relative frequency or percentage distribution is called :

- 7 Which of the following is responsible for co-ordinating statistical activities in India, which includes preparation of national accounts, processing and publishing industrial statistics, etc.
  - (a) National Sample Survey Organization. (b) Central Statistical Organization.
  - (c) National Industrial Organization.
- (d) None of these.
- 8 A relative frequency distribution presents frequencies in terms of .
  - (a) Fractions.

(b) Whole numbers.

(c) Percentages.

(d) Both (a) and (c).

- C. Fill in the blanks:
  - 9 \_\_\_\_\_ is the name of the tool used for finding synonyms and antonyms in MS Word.
  - 10 The procedure of combining two or more overlapping series of index numbers into one continuous series is known as \_\_\_\_\_
  - 11 The food production in India during 2010-11 and 2011-12 were 255 million tons and 260 million tons, respectively. The sample percentage annual growth rate of food production in India during the above mentioned period is
  - 12 HTTP stands for \_\_\_\_\_
- **D.** State True or False:
  - 13 The value most often repeated in a data set is called the arithmetic mean.
  - 14 In MS Excel, the shortcut key combinations used for navigating to the end of a column are  $CTRL + down \ arrow \ key$  (4) or  $END + down \ arrow \ key$  (J.).
  - 15 Page breaks can be inserted using view menu.
  - 16 The value most often repeated in a data set is called the arithmetic mean.

 $(16 \times \frac{1}{4} = 4 \text{ weightage})$ 

## Part B (Short Answer Questions)

Answer any **ten** questions. Each question carries a weight of 2.

17 Write formula, for the operations given in (a) to (b) based on the spreadsheet given below along with the relevant cell address:

1999 A	Α	В	C	<b>D</b>	E	F	G
1	SNO	Name	Science	Maths	Computers	Total	Average
2	1	Swati	70	80	87		
3	2	Shruti	90	98	89	_	
4	3	Neelu	90	90	98	_	_
5	4	Rosy	60	76	79		_
6	5	Shreya	50	45	67		
7	Max				_		
8	Total						

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- (a) To calculate the Total Marks as sum of Science, Maths and Computers for each student and display them in column F.
- (b) To calculate the average marks for each student and display them in column G.
- (c) To calculate the highest marks in Computers and display it in cell E7.
- (d) To calculate the total number of students appearing for the Science test and display it in cell C8.
- 18 What is Pie diagram? Explain its uses.
- 19 What is histogram? Draw histogram for the following data:—

Range of marks	10-15	15-20	20-25	25-30	30-35
Number of students	10	25	50	40	15

- 20 What are the major classification of computers? Explain.
- 21 The mean annual salary paid to all employees in a company is Rs. 5,000. The mean annual salary for all male employees is Rs. 5,200 and for all female employees is Rs. 4,200. Find out the percentage of males and females employed by the company.
- 22 What is coefficient of variation? How is it calculated? For what purpose it is used?
- 23 What does Lorenz Curve indicate? State at least two practical applications of Lorenz Curve in Economics.
- 24 Calculate the present value of Rs. 6,000 that is expected to be received in three years' time with simple interest of 7.5 % per annum.
- 25 What is purpose of Networking? Explain different methods of networking.
- 26 Differentiate between Laspeyer's formula and Paasche's formula for the construction of Index numbers. Which is more appropriate for measuring National Income of a country? Why?
- 27 An opinion survey among 120 households regarding the construction of a new airport provides 58 Yes, 42 No, and 20 no-option answers. Construct (i) a Pie chart; and (ii) a bar graph using the information.
- 28 Rs. 5,000 is invested at 8 % compounded interest per annum for three years :
  - (a) Calculate the value of the investment at the end of three years.
  - (b) Compute the present value of receiving Rs. 15,000 in three years' time when the discount rate is 8 %.

 $(10 \times 2 = 20 \text{ weightage})$ 

## Part C (Essay Questions)

Answer any **three** questions. Each question carries a weight of 4.

29 What are the different measures of average? Compare them their relative merits and demerits.

Turn over

30 The marks obtained by two students in 10 tests of 100 marks each are given below. Find out the mean, standard deviation, and coefficient of variation of marks obtained by each student. Who is more intelligent and who is more consistent?

Marks of Student X	25	50	45	30	70	42	36	48	34	60
Marks of Student Y	10	70	50	20	95	55	42	60	48	80

31 The prices and quantities of fruits consumed by a family for two different months are given below:

Fruit	Price per	unit	Quantity in numbers		
	January, 2014	October, 2014	January, 2014	October, 2014	
<u>Pear</u>	4	7	100	80	
<u>Orange</u>	5	9	80	60	
Apple	6	8	150	120	
Lime	2	2	50	60	

Taking January, 2014 as the base period, calculate weighted index number by (i) Laspeyer's method; and (ii) Paasche' method.

32 The Wholesale Price Index (WPI) was constructed with 1995-96 as base year and continued upto 1999-00. From 1999-00 WPI was computed with 1999-00 as base year. The corresponding WPI values are given below. Prepare spliced series of WPI with base 1999-00.

Year	WPI with base 1995-96	WPI with Base 1999-00
1995-96	100	
1996-97	114	
1997-98	128	
1998-99	140	
1999-00	150	100
2000-01		104
2001-02		111

33 Give a note on MS Access. How it is used in Database Management?

 $(3 \times 4 = 12 \text{ weightage})$