Section - A

1.	Which of the	following	facts is statistics?
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- (A) Ram secured 66% marks in English.
- (B) Ram secured 80% marks in Mathematics.
- (C) Ram secured 90% marks in Economics.
- (D) Ram secured 90% marks in Economics, this year, whereas he secured 80% marks in Economics previous year.

(C) Ogive

- 2. An investigator has collected required information by personal interview with the informants. What type of data it is? [1]
- (A) Primary
 (B) Secondary
 (C) Tertiary
 (D) None of these
 (D) None of these
- (A) Pie chart (B) Histogram
- 5. Read the following Assertion (A) and Reason (R) and choose the correct alternative: [1] Assertion (A): The Class Interval needs to be continuous while drawing a Histogram. Reason (R): Histogram is a rectangular diagram using frequency distribution which are joined to one another. Alternative: (A) and Barry (D) and Barry (D) and Construction (D) and
 - (A) Both Assertion (A) and Reason (R) are true, and Reason (R) is the correct explanation of Assertion (A)
 - (B) Both Assertion (A) and Reason (R) are true, but Reason (R) is not the correct explanation of Assertion (A).
 - (C) Assertion (A) is true, but Reason (R) is false.
 - (D) Assertion (A) is false, but Reason (R) is true.
- 6. Which average is affected most by the presence of extreme items?(A) Median(B) Arithmetic mean(C) Mode

[1](D) All of the above

(D) All of the above

An index number, which accounts for the relative importance of the item is known as[1](A) Simple Index Number(B) Weighted Index Number(C) Aggregate Index Number(D) Average Index Number

Read the following passage and answer questions 7 to 10 that follows:

Happiness is considered as a kind of positive emotion which has a significant impact on the physical, cognitive and psychological mechanisms and improves human performance in different fields. This research aims to study the correlation between happiness and death anxiety in health personnel of Zareh hospital of city of Sari. The current research is a descriptive cross-sectional and correlative study. The population includes all of the health personnel of Zareh hospital located in the city of Sari and they are 226 individuals. Two questionnaires of Oxford Happiness Questionnaire and Templer's Death Anxiety Questionnaire were completed and surveyed by 144 individuals (97 females and 47 males) of health personnel chosen by simple random sampling. In order to analyze data, the inferential and descriptive statistics including simultaneous equation regression model, Pearson's correlation coefficient, cut-point, and t-test were used for two independent groups. Research results showed that for each one unit of increase in the variable of happiness 0.27 is decreased from the personnel's' death anxiety. Also another part of the result showed that the difference between females' happiness and males' happiness was not significant.

 7.
 (Correlation/Regression/Index number) between happiness and death anxiety is being studied. [1]

 8.
 (Questionnaire/Interview/Survey) was completed by surveying 144 individuals. [1]

 9.
 What type of correlation is present between happiness and death anxiety? [1]

 (A) Positive
 (B) Negative

A]] [1]

15

[3]

10. Read the following statements -Assertion (A) and Reason (R).

Assertion (A): There is a significant and inverse correlation between two variables of personnel's happiness and death anxiety.

Reason (R): Happiness is considered as a kind of positive emotion which has a significant impact on the physical, cognitive and psychological mechanisms and improves human performance in different fields. [1]

Select the correct alternative from the following:

(A) Both Assertion (A) and Reason (R) are true. (C) Only Assertion (A) is true.

- (B) Both Assertion (A) and Reason (R) are false. (D) Only Reason (R) is true.
- 11. In how many groups, different commodities have been divided while constructing Wholesale Price Index in India? [3]
- **12.** Calculate mean from the following series:

Class-Interval	Frequency
0-2	2
2-4	4
4 - 6	6
6-8	4
8 - 10	2
10 - 12	6

OR

An inquiry into the budget of the middle class families in a certain city gave the following information :

Expenses on Items	Food 35%	Fuel 10%	Clothing 20%	Rent 15%	Miscellaneous 20%
Price(in ₹) in 2004	1,500	250	750	300	400
Price(in ₹) in 1995	1,400	200	500	200	250

What is the cost of living index of 2004 as compared with 1995?

13. Construct a pie-diagram to represent the cost of construction of a house in Delhi:

Items	Expenditure %
Labour	25
Bricks	15
Cement	20
Steel	15
Timber	10
Supervision	15
OR	

The following table gives absolute values (in lakh of tonne) of food grains production in India:

Year	Food Grains production (in lakhs of tonnes)
2002 - 03	1994
2003 - 04	1923
2004 - 05	2030
2005 - 06	1091

Represent the data by an appropriate bar diagram.

14. Find out Median value of the following distribution:

Wages	No. of Workers
0 - 10	22
10 - 20	38
20 - 30	46
30 - 40	35
40 - 50	20

15. Calculate Mode from the following data:

Marks	No. of students
0 - 10	5
10 - 20	12
20 - 30	14

[3] [4]

[4]

[4]

[4]

30 - 40	10
40 - 50	8
50-60	6

16. Draw a frequency polygon of the following distribution of the students obtaining marks in Economics: [6]

Marks	No. of students
10 - 20	5
20 - 30	12
30 - 40	15
40 - 50	22
50 - 60	14
60 - 70	4

17. Calculate median from the following data:

Size	Frequency
0 - 10	1
10 - 20	2
20-30	4
30 - 40	1
40 - 50	2

OR

Calculate coefficient of correlation between the price and quantity demanded:

Price	Demand
5	40
10	35
15	30
20	25
25	20

Section - B

18. Identify the correct pair of items from the following Columns Land II:

10.	. Identify the correct pair of items from the following Columns I and II:						[1]
		Colum	in I		Column	II	
	Α.	Utility		1.	Bread and butter		
	В.	Normal Goods 💧		2.	Rise in price		
	C.	Contraction in dem		3.	Capacity of a commodity t	to satisfy human wants	
	D.	Complementary go	ods	4.	Positively related		
	Alter	matives:					
	(A) A	1-1	(B) $B - 2$		(C) C-3	(D) D – 4	
	a 6 1				OR		
	Read	the following Asser	tion (A) and Reason	(R) a	nd choose the correct altern	native:	[1]
	Asse	rtion (A): If due to fa	ll in the price of good	X, d	emand for good Y rises, the	two goods are complemen	tarv
	Keas	on (K): There is an in native:	verse relationship bet	wee	n the demand for the good	and the price of its complem	nents.
			d Poscon (D) and true	- J	Deces (D) is the second	1 ***	
	(B) B	oth Assertion (A) an	d Reason (R) are frue,	and	Reason (R) is the correct ex	planation of Assertion (A)	A
	ici A	ssertion (A) is true 1	out Reason (R) is false.	but	Reason (R) is not the correc	t explanation of Assertion (/	4).
	(D) A	ssertion (A) is false,	but Reason (R) is true.				
19.		utility is					
	(A) N	linimum	(B) Maximum	aner	y. (C) Zero	(D) Mana at these	[1]
20					(C) Zelo	(D) None of these	
20.	$(\Delta) N$	h of the following ha fatchbox	(B) Water				[1]
21					(C) Medicine	(D) Air conditioners	
21.	(A) Direct (B) Inverse (C) Proportional (D) None of the above				ntity demanded.	[1]	
22			(B) Inverse		(C) Proportional	(D) None of the above	: :
22.	Read	the following Asserti	on (A) and Reason (R) and	choose the correct alternat	ive:	[1]
	Asser	tion (A): Demand fo	r salt is inelastic.				
	Reaso	on (R): In case of ela	stic demand, percent	tage	change in price of a comm	odity causes relatively less	than
	perce	ntage change in qua	ntity demanded.			•	

[6]

[1]

Alternative:

- (A) Both Assertion (A) and Reason (R) are true, and Reason (R) is the correct explanation of Assertion (A)
- (B) Both Assertion (A) and Reason (R) are true, but Reason (R) is not the correct explanation of Assertion (A).

(C) Assertion (A) is true, but Reason (R) is false.

(D) Assertion (A) is false, but Reason (R) is true.

23 Identify the correct pair of items from the following Columns I and II-

23.	Identify the correct pair of items from the following Columns I and II: [1]						
		Column I		Column II			
	Α.	Unitary elastic supply curve	1.	U shaped Supply Curve			
	В.	Relatively elastic supply curve	2.	Vertical line parallel to Y–Axis			
	C.	Perfectly elastic supply curve	3.	Horizontal line parallel to X-axis			
	D.	Perfectly inelastic supply curve	4.	Downward sloping supply curve			
	Alternatives:						
Agric costs. quan enjoy its op the ex bank retur brand brand and c	ultura A tra tify th s both eratio ctent o branc ns to a thes g thes o leposi	Atract given below and answer question of Development Bank of Pakistan uses ins log cost function is estimated to pro- e extent to which its production costs in overall and product-specific econom- ons at declining average cost. Even the of such economies is larger for branche hes grow larger in size in terms of both a factor. It is also shown that the margin row larger in size in terms of either t	the povide s are ies o bugh s op a loan hal ce he n he n	production function approach for measuring bar e an assessment of the bank's scale and scope eff sensitive to size and output mix. Results shows f scale and, therefore, there exists scope for the b bank branches in all size categories enjoy econ erating at a smaller scale of production. This imp n and deposit accounts, they move closer to attain osts of servicing both loan and deposit accounts of umber of loans or the number of deposits. This re attained greater cost efficiency in terms of service	ficiency, and to s that the bank bank to expand comies of scale, blies that as the ning increasing decline as bank s confirms that vicing the loan		
25.	Economies of scale is larger for which type of bank? (C) Medium Branches (D) None of the above						
26.	When	When the banks grow in size, they move closer in achieving (increasing/decreasing/ constant) returns to scale. [1]					
27.	The increasing returns to scale in larger branches is due to [1] (A) Increase in loans (B) Increase in deposits (C) Both (A) and (B) (D) None of them						
28.	Unde	er which market form a firm is called a	'pric	e taker' and why? OR	[3]		
	Explain the implications of the feature "homogeneous product" in a perfectly competitive market.						
		ain the implications of the feature "homogeneous product" in a perfectly competitive market. [3] It are the characteristics of a perfectly competitive market? [3]					
30.	 A consumer spends ₹1,000 on a good priced at ₹8 per unit. When price rises by 25 percent, the consumer continues to spend ₹1,000 on the good. Calculate price elasticity of demand by percentage method. [4] 						
31.	Complete the following table: [4]						

Price (₹)	Output (Units)	Total Revenue (TR in ₹)	Marginal Revenue (MR in ₹)
	1	6	_
4	_	_	2
	3	6	
1		_	(-) 2

OR

Giving reasons, state whether the following statements are true or false:

Average product will increase only when marginal product increases.

- (ii) With increase in level of output, average fixed cost goes on falling till it reaches zero.
- (iii) Under diminishing returns to a factor, total product continues to increase till marginal product reaches zero.
- (iv) When there are diminishing returns to a factor, total product always increases.
- (i) Write three examples each of normative economics and positive economics.

OR

- (ii) State three reasons which give rise to an economic problem.
- Explain the conditions of producer's equilibrium.

Explain any three factors that determine supply of a commodity.

34. Explain the distinction between budget set and budget line. When can a budget line shift?

AII [6]

[2]

[2]

[6]