

SET - 2

Economics

Time allowed: 3 hours

Maximum Marks: 80

General Instructions:

1. This question paper contains two parts:

Part A - Statistics (40 marks)

Part B - Micro Economic (40 marks)

- 2. Marks for questions are indicated against each question.
- 3. Question No. 1-7 and Question No. 16 22 are 1 mark questions and are to be answered in one word/sentence.
- 4. Question No. 8-10 and Question No. 23 25 are 3 marks questions and are to be answered in 60 80 words each.
- 5. Question No. 11-13 and Question No. 26 28 are 4 marks questions and are to be answered in 80-100 words each.
- 7. Question No. 14-15 and Question No. 29 30 are 6 marks questions and are to be answered in 100-150 words each.

Solution

Q	PART - A (STATISTICS)	Marks
1	400 Or Standard deviation	1
2	Economic	1
3	Less than; more than	1
4	Consumer Price Index	1



5	(a)	\sum_{a}		1	
	$q_{01} = 1$	$\overline{\sum_{q_0}}^{q_1} x \ 100$			
6	True			1	
7	Census			1	
8		I		3	
	Basic	Primary data	Secondary data		
	(a) Originality	primary data is being called original data, because is collected directly by the investigator from the source of origin.	Secondary data is not original data, because the investigator uses data collected by some other person or agency.		
	(b) Time	More time is required to collect primary data.	Less time is required to collect secondary data.		
	(c) Cost	More cost and effort is involved in the collection of primary data.	It is cheaper because data is collected from the published or unpublished sources.		
	(d) Suitability	Primary data is more reliable and suitable.	Secondary data does not suit the purpose of investigation.		
9	Meaning of Arithmetic Mean: It is defined as the sum of the values of all observations divided by the number of observations. It is also known as 'Mean' or 'Average' by the common man. It is usually denoted by \overline{X} . Formula of Assumed Mean Method: $\overline{X} = A + \frac{\sum_{fd}}{N}$ Here, A = Assumed mean N = Number of observations f = Frequency d = X - A, i.e. deviations of variables taken from assumed mean $\sum_{fd} = Sum \ of \ the \ product \ of \ frequencies \ and \ their \ respective \ deviations.$ OR				



	v	Vorkers	Daily workers (₹)		
		А	110		
		В	130		
		С	180		
		D	200		
		E	120		
		F	160		
		N = 6	$\sum X = 900$		
	L		_	5	
10	x	$=\frac{\sum X}{N} = \frac{900}{6} =$	= 180	APP	3
10	 Items	$=\frac{\sum X}{N} = \frac{900}{6} =$ Degree of	= 180 component parts	Degree	3
10	x Items Steel	$=\frac{\sum X}{N} = \frac{900}{6} =$ Degree of	= 180 component parts 20 x 3.6	Degree 72°	3
10	x Items Steel Bricks	$=\frac{\sum X}{N} = \frac{900}{6} =$ Degree of	= 180 component parts 20 x 3.6 15 x 3.6	Degree 72° 54°	3
10	items Steel Bricks Timber	$=\frac{\sum_{N} X}{N} = \frac{900}{6} =$ Degree of	= 180 component parts 20 x 3.6 15 x 3.6 25 x 3.6	Degree 72° 54° 90°	3
10	x Items Steel Bricks Timber Cement	$=\frac{\sum_{N} X}{N} = \frac{900}{6} =$ Degree of	= 180 component parts 20 x 3.6 15 x 3.6 25 x 3.6 10 x 3.6	Degree 72° 54° 90° 36°	3







	T 200 N 40	
	$X = 280, N = 40$ $\sum_{n=1}^{\infty} X_{n} = 40 \times 280$	
	$\sum X = 40 \times 280$	
	= 11,200 Calculate $\sum X_{i}$ i.e. 11,200 which is wrong as the student microad the item 130 as 180	
	Conclusion $\sum X$, i.e., 11,200 which is wrong as the statem misread the term 150 as 180.	
	Let us get correct $\sum x$ by substracting the incorrect tiem and dating the correct tiem to $\sum x$.	
	Incorrect $\sum X = 11,200$	
	Less: Incorrect item <u>180</u> 11 020	
	Add: Correct item <u>130</u>	
	Correct $\sum X$ 11,150	
	11, 150	
	Hence, corrected arithmetic mean is 40 = 278.75	
13	The values given in the series will be arranged in an ascending order in the following way:	4
	$\begin{array}{cccccccccccccccccccccccccccccccccccc$	
	33 35 36 40 48 50	
	Median = size of the $\left(\frac{N+1}{2}\right)^{th}$ item = Size of the $\left(\frac{18+1}{2}\right)^{th}$ = 9.5th item	
	The value of 0.5th item Value of the 9^{th} item + Value of the 10^{th} item	
	The value of 9.5" hem \equiv 2	
	24 + 25	
	$=$ $\frac{1}{2}$	
	= 24.5	
	Hence, $Median = 24.5$	



		Calculat	ion of standard	deviation	
Marks	No. of students (f)	Mid-points (m)	fm	m^2	f <i>m</i> ²
0 - 4	8	2	16	4	32
4 - 8	16	6	96	36	576
8 - 12	4	10	40	100	400
12 - 16	2	14	28	196	392
	N = 30		$\sum fm = 180$	C	$\sum f m^2 = 1,400$
	$= \sqrt{\frac{N}{N}}$ We get, N = Substituting $= \sqrt{-}$	$= -(X)^{2}$ $= 30, \sum_{fm} =$ <i>the values</i> $\frac{1,400}{30} - \left(\frac{180}{30}\right)^{2}$	180, $\sum_{fm^2} =$	= 1,400	



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CBSE CLASS 11 ECONOMICS SAMPLE PAPER SET-2 (ANSWERS)

Commo -dities	Base Year 2017		Current Year 2018		Current Year 2018		$p_0 q_0$	$p_{0}q_{1}$	$p_1 q_0$	p_1q_1
	Price	Quantity	Price	Quantity						
	p ₀	q_0	<i>p</i> ₁	q_{1}						
А	30	50	34	90	1,500	1,020	1,700	3,060		
В	26	20	30	40	520	780	600	1,200		
С	22	30	22	50	660	484	660	1,100		
D	18	10	22	30	180	396	220	660		
					$\sum p_0 q_0$	$\sum p_0 q_1$	$\sum p_1 q_0$	$\sum p_1 q$		
					= 2,860	= 2,680	= 3,180	= 6,020		
(a) La	speyre's p	rice index n	umber:				24.			
	Σ									
p_{0}	$_{01} = \frac{-1}{\Sigma}$	$\frac{p_1 q_0}{2} \times 10$	0							
		<i>p</i> ₀ <i>q</i> ₀								
	3,180									
=	$\frac{3,180}{2,860}$	< 100 = 2	111.19							

$$p_{01} = \frac{\sum_{p_1 q_0}}{\sum_{p_0 q_0}} \times 100$$

$$=\frac{3,180}{2,860} \times 100 = 111.19$$

(b) Fisher's price index number:

$$p_{0} = \sqrt{\frac{\sum_{p_{1}q_{0}}}{\sum_{p_{0}q_{0}}} \times \frac{\sum_{p_{1}q_{1}}}{\sum_{p_{0}q_{1}}}} = \sqrt{\frac{3,180}{2,860} \times \frac{6,020}{2,680}} = \sqrt{2.498} \times 100 = 158.04$$



	Microeconomics						
16	Economics	1					
17	As there exists perfect knowledge among buyers and sellers. Moreover, due to homogeneous product and uniform price no individual firm will be able to attract customers of other firms.						
18	Marginal Rate of substitution OR Indifference set						
19	True	1					
20	AR curve is perfectly elastic and thus parallel to the X-axis.	1					
21	It means, the price of the commodity remains constant at all levels of output and the demand is perfectly elastic.	1					
22	change in demand	1					
23	Meaning: It is the cost of the next best alternative forgone. Or we can say that opportunity cost is the cost of the next best alternative sacrificed.	3					
	Example: Suppose Rohan has three job offers						
	(i) To work in MNC at ₹1,50,000 per month						
	(ii) To work as Branch Manager of Private Bank at ₹1,20,000 per month						
	(iii) To work as Branch Manager in Government Bank at ₹1,10,000 per month. In the given case, Rohan has accepted the offer for the job in MNC. Therefore, his opportunity cost for working in MNC is the cost of the next best alternative forgone, i.e., ₹1,20,000 salary of Branch Manager of Private Bank.						
	OR						
	Meaning: This problem refers to the choice of technique of production. This problem arises when there is availability of more than one way to produce goods and services. Types of technique: There are mainly two techniques of production. These are:						
	(i) Labour Intensive Technique In this technique more of labour and less of Capital (machines) is used for production.						
	(ii) Capital Intensive Technique In this technique more of capital (machines) and less of Labour is used for production.						
24		3					



				-		
	Original Quantity	(Q) = 600 units	Original Price = ₹10			
	New Quantity (Q1)=?	New Price = ₹8	Ī		
	Change in quantit	$xy(\Delta Q) = \Delta Q$	Change in Price $(\Delta P) = 10 - 8 = ₹2$			
		Elasticity of D	Demand $\begin{pmatrix} E_d \end{pmatrix} = 5$			
	Price elasticity of supply $(E_s) = \frac{\Delta Q}{\Delta P} \times \frac{P}{Q}$					
	$2.5 = -\frac{1}{2}$	$\frac{\Delta Q}{2} \times \frac{10}{600}$				
	$\Delta Q = 3$	300				
	As price decreases, the q New quantity = O =	uantity supplied will also riginal quantity (Q) - Chai 600 - 300 = 300 units	decrease. It means, nge in quantity			
25			90.	3		
	 (a) Point of satiety 'Points of Satiety' is that stage or level of consumption where MU becomes 'Zero' and TU is maximum and constant. It is the level beyond which MU becomes negative and TU fall Or we can say that beyond this level consumer starts getting disutility and, in some cases,, commodity may harm the consumer. 					
	 (a) Point of equilibrium Equilibrium is the level of consumption at which a consumer gets maximum satisfaction, given the prices of the commodiand income of a consumer. To determine equilibrium, we match utility and price. 					
	(c) Difference between point & satiety and equilibrium	 At the 'Point of MU is not zero, 	Satiety' MU has to be 'zero'. But at 'Equilibrium , it is equal to the price paid for it.			
	(d) In case of goods available 'free of cost'	 If a commodity then 'Level of E Because at thi 	v is available free of cost i.e. its Price is 'Zero', Equilibrium' will be the same as 'Point of satiety'. s level both MU and Price are 'Zero'.			
26		I		4		
	(a) Meaning of shift in the demand curve When demand for the commodity changes due to change in any fac other than the own price of the commodity, it is known as 'change in demand'					
	(b) Rightward shift of demand curve	When demand rises at the demand curve .	the same price, it leads to the rightward shift in			















This phase ends where TP is maximum and constant at point 'm'. Reason– Factors of production are imperfect substitutes for each other, Ideal the combination of fixed and variable factors is distorted.

Phase-3 Phase of Negative Returns

Beyond a certain limit if we increase number of workers (units of variable factor) we start getting negative returns i.e., TP starts declining. In the given diagram this phase operates when more than 'L1' are employed with the same fixed factors.

Reason–Scarcity of fixed factors, mismanagement.



