

INDIAN SCHOOL AL WADI AL KABIR

First Assessment - 2024-25

Economics – Answer Key

Class: XI

	SECTION A: STATISTICS	
Q. No.	Questions	Marks
1	A: a	1
2	A: b	1
3	A: a	1
4	A: b	1
5	A: a	1
6	A: c	1
7	A: a	1
8	A: a.	1
9	A: d	1
10	A: a	1
11	Number of Workers Corresponding to Different Range of Wages 25 Histogram Smooth Frequency Curve 18 15 15 15 WAGES (in ©) Number of Workers Corresponding to Different Range of Wages	3

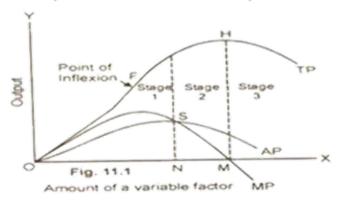
12				3
	Marks	Frequency (f)	Cumulative Frequency	
	10-20	42	42	
	20–30	38	80 (c.f.)	
	(1) 30-40	120 (f)	200	
	40-50	84	284	
	50–60 60–70	48 36	332 368	
	70-80	31	399	
	70-30	N = 399	333	
	N N	$M = \text{Size of } \left(\frac{N}{2}\right) \text{th item}$		
		= Size of $\left(\frac{399}{2}\right)$ th item		
	Hence, median lies	= Size of 199.5th item in the class 30–40.	La	
13	Quantity Tally Marks	Frequency		2+2
	5-9			
		6		
	10 – 14	11		
	15 – 19	13		
	20 – 24	18		
	25 – 29	8		
	30 - 34	5		
	35 – 39	3		
	40 – 44			
	40 - 44	E.C. CA		
		$\sum f = 64$		
	b. Chronological classification			
	to time such as years, quar	g or in decending order with referend ters, months weeks etc.	e	
	82 49 42	data are classified with reference	to	
	[20] [20] [20] [20] [20] [20] [20] [20]	s countries, states cities, districts, et		
14	Answer:	e number of the table in a chron	ological order. Assigning a	4
		more useful when more than or		
	-	noting each table with a unique		
	easily differentiated from	-	namou, one tuoie can be	
	b. Captions	die odiei.		
	c. Body of the table			
	1	s to provide a clear and organiz	ed presentation of the	
	information.	re provide a croat and organiz	- F	

15	Marks (X)	Mid-value $\left(m = \frac{l_1 + l_2}{2}\right)$	Number of Students or Frequency (f)	Deviation (d = m - A) (A = 25)	Multiple of Deviation and Frequency (fd)		4
	0-10	$\frac{0+10}{2}=5$	20	5 - 25 = -20	$20 \times -20 = -400$		
	10-20	$\frac{10+20}{2} = 15$	24	15 - 25 = -10	$24 \times -10 = -240$		
	20-30	$\frac{20+30}{9}=25$	40	25 - 25 = 0	$40 \times 0 = 0$		
	30-40	$\frac{30+40}{2}=35$	36	35 - 25 = +10	$36 \times +10 = +360$		
	40-50	$\frac{40+50}{2}=45$		45 - 25 = +20	$20 \times + 20 = +400$		
		2	$\Sigma f = 140$		$\Sigma fd = 120$		
	$\overline{X} = A$	$+\frac{\Sigma fd}{\Sigma c}$					
		5 + 0.86					
	= 25	5.86					
16	109			100-	Ogive	4 11 12 13	6
	Marks	c.f.	Marks	c.f. 90-			
	Less than 5	7	More than 0	95	1 dive		
	Less than 10	17	More than 5	88	Tran .		
	Less than 15	37	More than 10	78 70-	853		
	Less than 20	50	More than 15	58 60-			
	Less than 25	62	More than 20	45 50-	-		
	Less than 30	72	More than 25	33 40-	- 1		
	Less than 35	A. I	More than 30	23	- 1 700	36 140	
	Less than 40		More than 35	8 20	11111		
		A co a		10	- 1 20 25 20	++>x	

17						6	
	$\overline{X} = A + \frac{\Sigma f d'}{\Sigma f}$	×C					
	$=45+\frac{-108}{216}$	×10					
	=45-5=6						
	Class Mid-valu	e Frequency	Deviation	Step-	Multiple		
	Interval (X) $\left(\mathbf{m} = \frac{l_1 + l_2}{2}\right)$		$(\mathbf{d} = \mathbf{m} - \mathbf{A})$ $(\mathbf{A} = 45)$	deviation $\left(\mathbf{d}' = \frac{\mathbf{d}}{\mathbf{C}} \right)$ $\left(\mathbf{C} = 10 \right)$	of Step- deviation and Frequency		
	0-10 5	12	- 40	- 4	(fd') - 48		
	10–20 15	16	- 30	- 3	- 48		
	20–30 25	32	- 20	- 2	- 64		
	30–40 35	52	- 10	- 1	- 52		
	40-50 45	42	0	0	0		
	50–60 55 60–70 65	32 18	10 20	2	32 36		
	70–80 75	12	30	3	36		
		$\Sigma f = 216$			$\Sigma fd' = -108$		
	SECTION B: MICRO ECONOMICS						
18	A: c						
19	A: c					1	
20	A: c					1	
21	A: a					1	
22	A: a					1	
23	A a					1	
24	A: d					1	
25	A: c					1	
26	A: a					1	
27	A: a A: a					1	
28	Indifference curve analysis:				3		
20	An indifference curve depicts all the combinations of two goods that provide the						
	consumer with equal satisfaction. When the Budget line is tangent to the indifference						
	curve, a consumer will be in equilibrium, according to the indifference curve						
	approach.						
	(Draw n Explain the graphs)						
	A C Consumer's Equilibrium						
	E IC ₂ IC ₁						
	M Goods - X B						

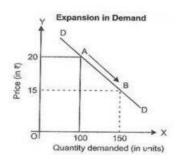
29	A: PPC					3	
	The two-basic p	roperty of produc	tion possibility cur	ve are:			
	a. It slopes dow	nward from left	to right- Production	on possibility curv	e slopes downward		
	because both the	variables involve	e in the equation a	re inversely related	as one increase then		
	other one decrea	other one decreases and vice versa because the resources are constant.					
	b. The curve is	concave to the o	rigin- Since resour	ces are use specifi	c, therefore every time		
		b. The curve is concave to the origin - Since resources are use specific, therefore every time when one more unit of a commodity is produced more units of the other commodity is					
	sacrificed that results in increasing marginal opportunity cost which leads to the concave						
		tion possibility cu					
30				esult in the incre	ase in demand for TV	2+2	
	sets. The dema	nd curve for bot	h TVs will shift 1	rightward.			
					s fare comes down		
	the demand for	train travel will	decrease as a res	sult there would b	be left ward shift of		
	demand curve.						
31	The production	function of a fi	rm depicts the re	lationship betwee	en the inputs used in	4	
-					y units of different		
	_	-	oduce the maxim		-		
	In short run, a	firm cannot cha	ange all the input	s, which means t	hat the output can be		
	increased (decr	eased) only by	employing more	(less) of the varia	able factor (labour). It		
	is generally ass	umed that in sh	ort run a firm doe	es not have suffic	ient or enough time		
	to vary its fixed	d factors such as	, installing a new	machine, etc. He	ence, the output		
	levels vary only	y because of var	ying employmen	t levels of the var	riable factor.		
	In long run, a	firm can change	all its inputs, wh	nich means that th	ne output can be		
	increased (decr	eased) by employer	oying more (less)	of both the input	ts – variable and		
	fixed factors. In	n the long run, a	ll inputs (includi	ng capital) are va	riable and can be		
			red levels of outp				
32	Answer Key:					4	
	1. Inferior						
	2. Negative						
	3. Leftward shift of the demand curve						
	4. Shifts to the left						
33	a. Law of varia	ble proportion o	or returns to varia	ble factor - This	law state that keeping	2+2+2	
	other factors of production constant, when only one variable factor is increased, in the						
	beginning total physical product increases at an increasing rate, then increases at a						
	decreasing rate and ultimately decline.						
	b.						
		2, Mir nth = 11n = 11n		Marginal Product	Stores		
	Land (Units)	Labour (Units)	Total Product (TP)	(MP)	Stages		
	1	1	2	2			
	1	2	5	3	1 Increasing returns		
	1	3	9]	4	ĥ		
	1	4	12	3			
	1.	5	14	2	Diminishing returns		
	1	6	15 📙	1	Į.		
			E 7227	1 5 5	PARTY OF COURT OF THE PARTY OF	1	
	1	7	15 7	0	Negative returns		
	1	7 8	15]	0 -1	Negative returns		

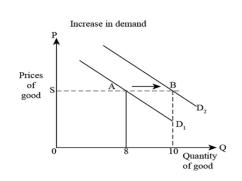
Graph of Law of variable Proportions



34 A: 3+3

2. Extension in Demand	Increase in Demand
This is caused by changed in price only	This is caused by change in the factorsother than price of the commodity.
It results in downward movement alongthe demand curve. When demand increases due to fallsin price only, it is called extention indemand.	Itresults in the rightward shift in demandcurve. When demand increases due to changesfactors other than price, it is calledincrease in demand.





A: Price elasticity of demand indicates the rate of change in quantity demanded of the commodity due to change in its price.

- i. Electricity has elastic demand as it can be put to several uses.
- ii. Cigarettes have inelastic demand as its consumers are habituated.
- iii. Butter for a poor person has elastic demand as it is a luxury item for the poor person.