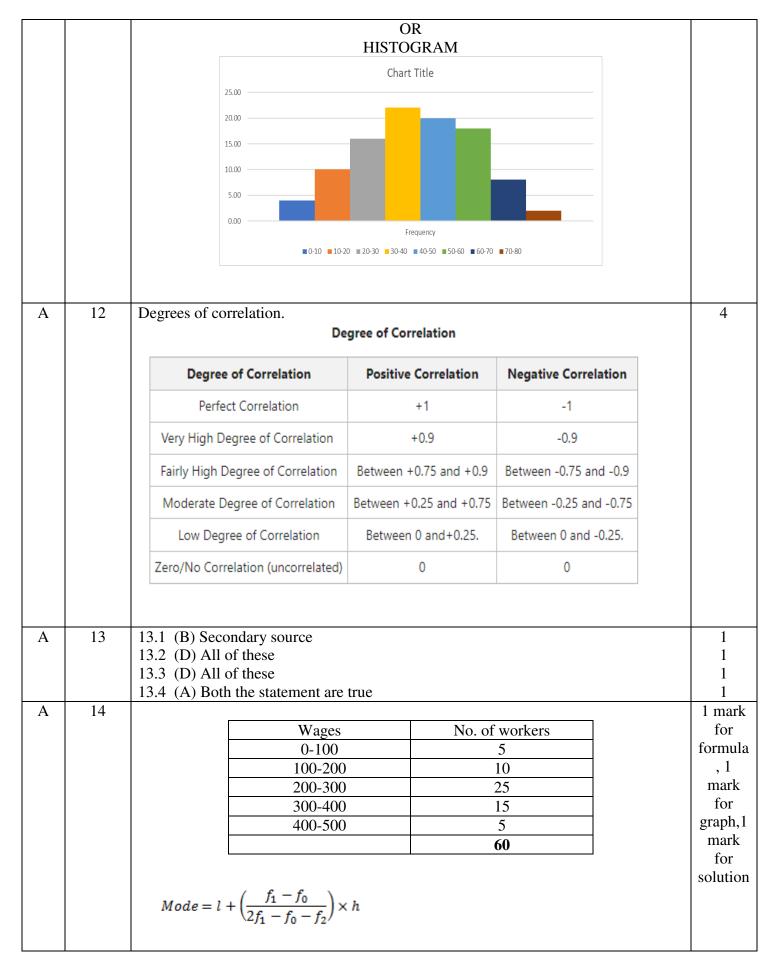
SET	A
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INDIAN SCHOOL MUSCAT FINAL EXAMINATION 2023 ECONOMICS 030

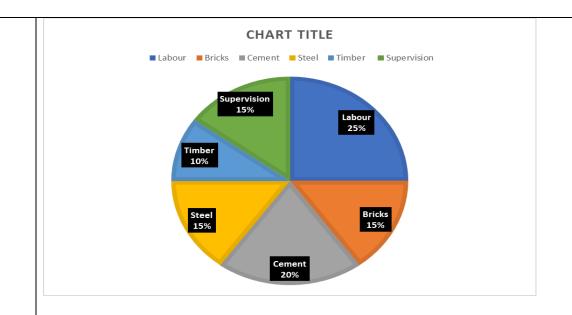
CLASS:XI Max. Marks:

		MARKING SCHEME						
SET	QN.NO	VALUE POINTS						
		STATISTICS FOR ECONOMICS	UP					
A	1	(A)- its source of origin OR (D) – All of these	1					
A	2	(C) – Average of the largest and smallest observation	1					
A	3	(C) – wants	1					
A	4	(C) - 360° OR (B) one dimensional diagram	1					
A	5	(C)– unorganized	1					
A	6	(A) Assertion and Reason is true but Reason is correct explanation for assertion	1					
A	7	(D) Karl Pearson's method	1					
A	8	(B) +1	1					
A	9	(B)Zero	1					
A	10	(A) index number	1					
A	11	Chart Title 50 45 40 35 30 25 20 15 10 5 0 Wheat Rice Gram						



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			25-10 / 2(25)-10-15 X 60 = 260	1100	
A	15	Ogive Curve: co	nvert to exclusive		
		Less than Ogi	ve	More than Ogive	
		Weight	F	Weight	F
		Less than 35	3	More than 0	60
		Less than 40	3+5=8	More than 35	60-3=57
		Less than 45	8+12=20	More than 40	57-5=52
		Less than 50	20+18=38	More than 45	52-12=40
		Less than 55	38+14=52	More than 50	40-18=22
		Less than 60	52+6=58	More than 55	22-14=8
		Less than 65	58+2=60	More than 60	8-6=2
				More than 65	2-2 =0
			70 60 50 40 30 20 10		
		Pie chart	Categarygalfygalfygory 4	more than Column:	1



|--|

Marks	f	M	fm	D(x-a)	fd
0-10	5	5	25	-20	-100
10-20	10	15	150	-10	-100
20-30	25	25	625	0	0
30-40	30	35	1050	10	300
40-50	20	45	900	20	400
50-60	10	55	550	30	300
	f=100		3300		800

2 marks for formula , 2 marks for solution and 2 marks for final answers solution

Direct Method:

ethod: Assumed Mean:

$$X = \Sigma fm / \Sigma f$$
$$= 3300 / 100$$
$$Mean = 33$$

$$X = A + \Sigma fd / \Sigma f$$

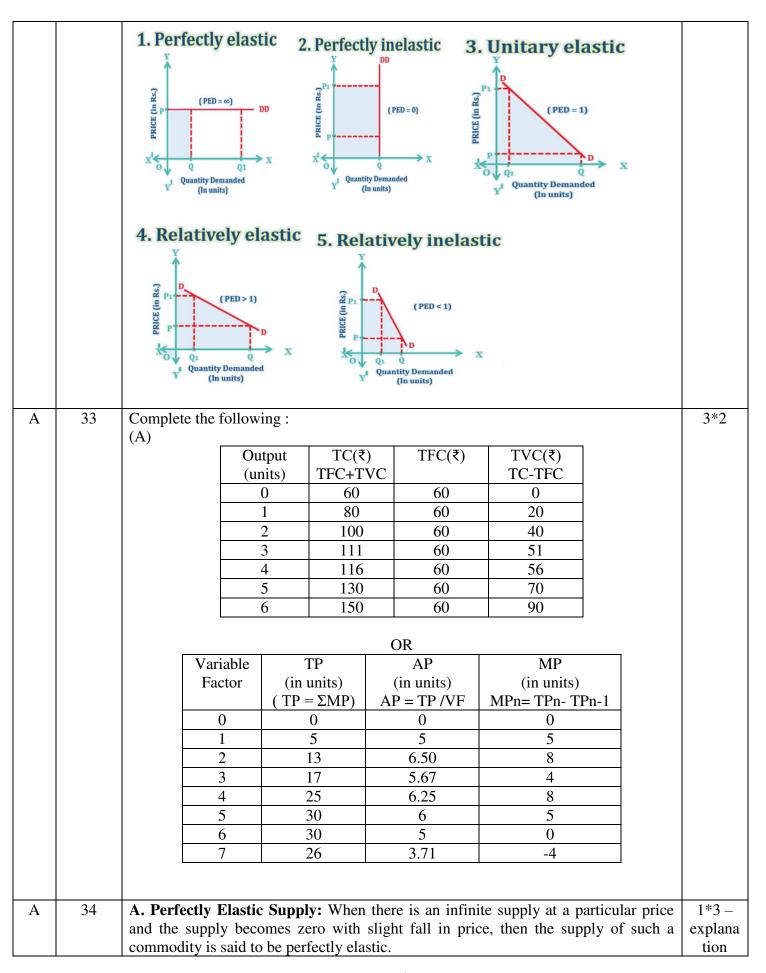
= 25 + 800/ 100
Mean = 33

OR

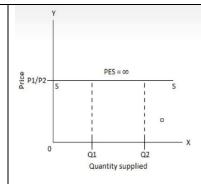
X	R1	Y	R2	D=R1-R2	D^2
55	3	12	5.5	-2.5	6.25
45	5	12	5.5	-0.5	0.25
50	4	40	1	3	9
10	10	6	8.5	1.5	2.25
25	8	20	4	4	16
25	8	4	10	-2	4
75	1	30	2	-1	1
40	6	9	7	-1	1
25	8	6	8.5	-0.5	0.25
67	2	25	3	-1	1
					$\sum D^2 = 41$

		$r_k = 1 - $	ΣD^2	(m ³	3 ₁ - m ₁) ₊ (n	1 ³ 2 - 1	m ₂)]		
		$r_k = 1 - \frac{1}{2}$			n(n	² – n)	12				
		= 1-6 (41+1/12(8-2)+1/12(64-4) / 1000-10 = 1-251.5 / 990 = 0.25									
		= 1 - 231.378 = 1 - 0.25 = 0.0			ve correl	ation)					
A	17	Commodity	2019	2019	2020	2020	p_1q_1	$p_{0}q_{1}$	$p_{1}q_{0}$	p_0q_0	2 marks
			Price	Qty.	Price	Qty.	40	24	40	20	for formula
		A B	3	10 20	<u>4</u> 5	12 15	48 125	24 75	40 100	60	2 marks
		C	5	30	8	10	80	50	240	150	for
							253	149	380	230	formula calculat
						. ,					ion and
		Laspeyre's Met	thod:		Paasc	he's me	thod:				2 marks
		$P_{01} = \frac{\sum p_1 q_0}{\sum p_0 q_0} \times \frac{1}{\sum p_0 q_0} = \frac{\sum p_1 q_0}{\sum p_0 q_0} = \frac{\sum p_1 q_0}{\sum p_0 q_0} = \frac{\sum p_0 q_0}{\sum p_0} = \frac{\sum p_0 q_0}{\sum p_0} = \frac{\sum p_0 q_0}{\sum p_0} = \frac{\sum p_0}{\sum p_0} = \frac{\sum p_0}{\sum p_0} = \frac{\sum p_0}{\sum p_0} =$	100		$P_{0.1}$	$\sum_{i=1}^{n} p_{i}$	$\frac{q_1}{} \times 1$	100			for solution
		$\sum p_0 q_0$	100		P_{01} =	$\sum p_0$	q_1				
		$= 380 / 230 \times 10^{-165}$	00				/230 x2	100			
		165.2 169.7									
		MICROECONOMICS									
A	18	(D) implies that consumer's wants will never be completely satisfied							1		
	10	(2) impries that	Consumo	1 5 77 411	to will lie	, C1 00 C	omprote	19 5441511	ou.		1
A	19	(B) Marginal Rate of Substitution								1	
		(B) Indifference	curve is	concave		OR rigin					
A	20	(A) Substitutes		• • • • • • • • • • • • • • • • • • • •							1
	21	(A) FD:	•								1
A	21	(A) TP is increasing OR							1		
L		(C) only (i) is correct						<u> </u>			
A	22	(A) Both Assertion (A) and (R) are true and Reason(R) is the correct explanation to									
A	23	Assertion(A) (A) AP rises									1
_ ^	23	(A) AI 115C5									
A	24	(A) constant rate	;								1
A	25	₹3									1
A	23	<3							1		
A	26	(A) Price ceiling							1		

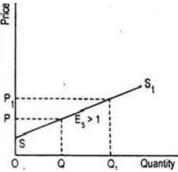
A	27	False				
A	28	 (A) Average Cost: It refers to the per unit fixed cost of production. It is calculated by dividing TFC by total output. (B) Marginal Cost: It refers to addition to total cost when one more unit of output is produced. MCn=TCn-TCn-1 (C) Total cost: it is the total expenditure incurred by a firm on the factors of production required for the production of a commodity. TC= TFC+TVC 				
A	29	A) Marginal Opportunity Cost (MOC): refers to the number of units of a commodity sacrificed to gain one additional unit of another commodity. MOC = Change units sacrificed by change units Gained. Production Possibility Curve: PPC may be defined as a curve, which represents all the possibilities of production of two given commodities with a given scarce and state of technology.				
		OR B) Relationship between Total Utility and Marginal utility ✓ When MU is falling but remains positive, it leads to rising total utility, though at the falling rate. ✓ When MU becomes zero, it will result into constant TU ✓ Eventually when MU becomes negative, the TU will start diminishing.	1+1+1			
A	30	A) Original Quantity(Q) = 125 units Original Price(P) = ₹8 Fall in Qunatity(\triangle Q) = 25 units New Price (P1) = ₹6 New Quantity (Q1) = 100 units Change in Price(\triangle P) = ₹2 Elasticity of Supply (Es) = ? Percentage change in Price = Change in Price / New Price * 100 = 2/8 *100 = 25% Percentage change in Supply = Change in Quantity / New Quantity X100 = 25/125*100 = 20% $E_s = \frac{\text{Percentage change in quantity supplied}}{\text{Percentage change in price}}$ 20 % / 25% = 0.8 Es = 0.8 (Supply is less elastic as Es <1)				
A	31	31.1 Inverse 31.2 Substitute 31.3 Fall 31.4 Nature of a commodity	1 1 1			
A	32	Degrees of Elasticity of Demand:	4			







B. High Elasticity Supply: When percentage change in quantity supplied is more than the percentage change in price, then supply for such a commodity is said to be highly elastic supply.



C. Unitary Elastic Supply: When percentage change in quantity supplied is equal to percentage change in price, the supply for such a commodity is said to be unitary elastic.

