| SET | B |
| :---: | :---: |

INDIAN SCHOOL MUSCAT FINAL EXAMINATION 2023

ECONOMICS 030
CLASS：XI

| MARKING SCHEME |  |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| SET | QN．NO | VALUE POINTS |  |  |  | $\begin{gathered} \hline \text { MARKS } \\ \text { SPLIT } \\ \text { UP } \\ \hline \end{gathered}$ |
|  |  | SECTION ASTATISTICS FOR ECONOMICS |  |  |  |  |
| B | 1 | （A）quantitative |  |  |  | 1 |
| B | 2 | （A）census <br> （D）All of these |  |  |  | 1 |
| B | 3 | False |  |  |  | 1 |
| B | 4 | （B）Time |  |  |  | 1 |
| B | 5 | （A）Difference between the largest and the smallest observations |  |  |  | 1 |
| B | 6 | （C）continuous series |  |  |  | 1 |
| B | 7 | （C）c－iii |  |  |  | 1 |
| B | 8 | （B）Base year <br> （D）all of these |  |  |  | 1 |
| B | 9 | （C）Assertion is true but Reason is False |  |  |  | 1 |
| B | 10 | Zero |  |  |  | 1 |
| B | 11 |  |  |  |  | 3 |
|  |  |  |  |  |  |  |
|  |  |  | Class Enterval | Tally Bar | Frequency（f） |  |
|  |  |  | 1－7 | Wサせ！UK | 15 |  |
|  |  |  | 8－14 | やり以11 | 12 |  |
|  |  |  | 15－21 | せり以い比， | 15 |  |
|  |  |  | 22－28 | せ！リ | $10$ |  |
|  |  |  | 29－35 | H11 | 6 － |  |
|  |  |  | 36－42 | II | 2 |  |
|  |  |  |  |  | $\mathrm{N}=60$ |  |





|  |  | $\begin{aligned} & \mathbf{r}_{\mathbf{k}}=\mathbf{1}-\frac{\mathbf{6}\left[\sum \mathbf{D}^{2}+\frac{\left(\mathbf{m}^{3} \mathbf{1}-\mathbf{m}_{1}\right)}{12}+\frac{\left(\mathbf{m}^{\mathbf{3}} \mathbf{2}-\mathbf{m}_{2}\right)}{12}+\cdots \cdot\right]}{\mathbf{n}\left(\mathbf{n}^{2}-\mathbf{n}\right)} \\ & =1-6(41+1 / 12(8-2)+1 / 12(64-4) / 1000-10 \\ & =1-251.5 / 990=0.25 \\ & =\underline{\mathbf{1}-0.25}=\mathbf{0 . 7 5}(\text { High positive correlation }) \end{aligned}$ |  |  |  |  |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| B | 17 | Commodity | $\begin{aligned} & 2019 \\ & \text { Price } \end{aligned}$ | $\begin{aligned} & 2019 \\ & \text { Qty. } \end{aligned}$ | $\begin{aligned} & 2020 \\ & \text { Price } \end{aligned}$ | $\begin{gathered} 2020 \\ \text { Qty. } \end{gathered}$ |  | $p_{0} q_{1}$ | $p_{1} q_{0}$ | $p_{0} q_{0}$ | 2 marks for formula 2 marks for formula calculati on and 2 marks for solution |
|  |  | A | 2 | 20 | 5 | 15 | 75 | 30 | 100 | 40 |  |
|  |  | B | 4 | 4 | 8 | 5 | 40 | 20 | 32 | 16 |  |
|  |  | C | 1 | 10 | 2 | 12 | 24 | 12 | 20 | 10 |  |
|  |  | D | 5 | 5 | 10 | 6 | 60 | 30 | 50 | 25 |  |
|  |  |  |  |  |  |  | 199 | 92 | 202 | 91 |  |
|  |  | Laspeyre's M $\begin{gathered} P_{01}=\frac{\sum p_{1} q_{0}}{\sum p_{0} q_{0}} \\ =202 / 91 \mathrm{x} 1 \\ \mathbf{2 2 1 . 9 7} \\ \mathbf{1 2 1 \%} \mathbf{~ i n c} \end{gathered}$ | hod: <br> $\times 100$ <br> 0 <br> ease |  | Paas <br> $P$ | $\begin{aligned} & =\frac{\sum 1}{\sum 1} \\ & =1 \\ & =199 \end{aligned}$ | od: <br> $q_{1}$ $q_{1}$ <br> $92 \times 10$ <br> 216.30 <br> $116 \%$ | 100 <br> incre |  |  |  |
|  |  |  |  |  | $\begin{gathered} \text { SEC } \\ \text { CROE } \end{gathered}$ | $\begin{aligned} & \text { ION B } \\ & \text { ONOM } \end{aligned}$ | ICS |  |  |  |  |
| B | 18 | A) Increasing | MRT |  |  |  |  |  |  |  | 1 |
| B | 19 | A) Zero |  |  |  |  |  |  |  |  | 1 |
| B | 20 | C) Leftward S | ift war |  |  |  |  |  |  |  | 1 |
| B | 21 | C) $<1$ |  |  |  |  |  |  |  |  | 1 |
| B | 22 | D) Statement 2 is true and Statement 1 is false |  |  |  |  |  |  |  |  | 1 |
| B | 23 | A) TVC <br> A) TR increases |  |  |  |  |  |  |  |  | 1 |
| B | 24 | (B) increase production |  |  |  |  |  |  |  |  | 1 |
| B | 25 | D) $\mathrm{Es}>1$ <br> A) Decrease in supply |  |  |  |  |  |  |  |  | 1 |


| B | 26 | (A) Expansion in supply | 1 |
| :---: | :---: | :---: | :---: |
| B | 27 | (C)Assertion is true but Reason is false | 1 |
| B | 28 | Positive Economics Normative Economics <br> a. It deals with what is or how the <br> economic problems are actually <br> solved a. It deals with what ought to be or <br> how the economic problems should <br> be solved. <br> b. It can be verified with actual <br> data b. It cannot be verified with actual <br> data <br> c. It aims to make real description <br> of an economic activity c. It aims to determine the ideals <br> d. It is based upon facts, and thus <br> not suggestive d. . It is based upon individual <br> opinion and therefore, it is <br> suggestive in nature <br> e.g. Prices in Indian economy are <br> constantly rising E.g., India should take steps to <br> control rising prices. <br> (any three points) | 1 mark for each point. |
| B | 29 | (A)Average Cost: It refers to the per unit fixed cost of production. It is calculated by dividing TFC by total output. <br> (B) Marginal Cost: It refers to addition to total cost when one more unit of output is produced. $\mathrm{MCn}=\mathrm{TCn}-\mathrm{TCn}-1$ <br> (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 $=\mathrm{TFC}+\mathrm{TVC}$ | $\begin{gathered} \text { One } \\ \text { mark } \\ \text { each } \\ 1^{*} 1^{*} 1 \end{gathered}$ |
| B | 30 | Degrees of Elasticity of Demand ( any four) <br> 1. Perfectly elastic <br> 3. Unitary elastic <br> 2. Perfectly inelastic <br> 4. Relatively elastic | Diagram and explanati on any four each one mark. 4 |


|  |  | 5. Relatively inelastic |  |
| :---: | :---: | :---: | :---: |
| B | 31 | 31.1 Inverse <br> 31.2 Substitute <br> 31.3 Fall <br> 31.4 Nature of a commodity | $\begin{aligned} & 1 \\ & 1 \\ & 1 \\ & 1 \\ & \hline \end{aligned}$ |
| B | 32 | A) <br> Percentage change in Price $=$ Change in Price $/$ New Price * 100 $=2 / 8 * 100=25 \%$ <br> Percentage change in Supply $=$ Change in Quantity / New Quantity X100 $=25 / 125 * 100=20 \%$ $E_{s}=\frac{\text { Percentage change in quantity supplied }}{\text { Percentage change in price }}$ $20 \% / 25 \%=0.8$ <br> $\mathrm{Es}=0.8($ Supply is less elastic as Es $<1)$ <br> OR <br> Initial demand $(\mathrm{Q})=100$ units <br> Rise in price $=$ Rs 5 <br> Fall in demand= 5units <br> New demand $=95$ units (decrease in demand) <br> $\mathrm{Ed}=-1.2$ <br> Original Price= ? | Formula 1 mark Substitut e with each 3 marks |


|  |  | $\begin{aligned} & E d= \frac{\Delta Q}{\Delta P} \times \frac{P}{Q} \\ & 1.2=\frac{5}{5} \times \frac{P}{100} \\ & 1.2 \times \frac{5}{5} \times 100=P \\ & \frac{600}{5}=120 \\ & \text { Ed }=P=120 \\ & \text { Price before change in demand (original price) }=\text { Rs } \mathbf{1 2 0} \end{aligned}$ |  |
| :---: | :---: | :---: | :---: |
| B | 33 | A. Perfectly Elastic Supply: When there is an infinite supply at a particular price and the supply becomes zero with slight fall in price, then the supply of such a commodity is said to be perfectly elastic. <br> B. Less Elasticity Supply:When percentage change in the quantity demanded is less than percentage change in price, the demand for such a commodity is said to be less elastic . <br> C. Unitary Elastic Supply: 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. | 2 marks each $2 * 3=6$ |


|  |  |  |  | ntity supplied (units) |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| B | 34 | Complete the following : <br> A) |  |  |  | $\begin{gathered} 1 \text { mark } \\ \text { for } \\ \text { formula } \\ \text { and } 1 \\ \text { mark for } \\ \text { solving } \\ * 3 \\ \text { compone } \\ \text { nts } \\ 3 * 2=6 \end{gathered}$ |
|  |  | Output <br> (units) | $\begin{gathered} \mathrm{TC}(₹) \\ (\mathrm{AC} * \text { Output }) \end{gathered}$ | $\mathrm{AC}(₹)$ <br> (TC / Output) | $\begin{gathered} \mathrm{MC}(₹) \\ (\mathrm{TCn}-\mathrm{TCn}-1) \end{gathered}$ |  |
|  |  | 0 | 50 | -- | - -- |  |
|  |  | 1 | 70 | 70 | 20 |  |
|  |  | 2 | 100 | 50 | 30 |  |
|  |  | 3 | 151 | 33 | 51 |  |
|  |  | 4 | 207 | 51.75 | 56 |  |
|  |  | 5 | 267 | 53.4 | 60 |  |
|  |  | 6 | 337 | 56.1 | 70 |  |
|  |  | OR |  |  |  |  |
|  |  | Variable Factor | TP (in units) $(\mathrm{TP}=\Sigma \mathrm{MP})$ | $\begin{gathered} \text { AP } \\ \text { (in units) } \\ \mathrm{AP}=\mathrm{TP} / \mathrm{VF} \\ \hline \end{gathered}$ | $\begin{gathered} \text { MP } \\ \text { (in units) } \\ \text { MPn= TPn- TPn-1 } \end{gathered}$ |  |
|  |  | 0 | 0 | -- | -- |  |
|  |  | 1 | 4 | 4 | 4 |  |
|  |  | 2 | 10 | 5 | 6 |  |
|  |  | 3 | 18 | 6 | 8 |  |
|  |  | 4 | 24 | 6 | 6 |  |
|  |  | 5 | 25 | 5 | 1 |  |

