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## INDIAN SCHOOL MUSCAT SECOND TERM EXAMINATION <br> ECONOMICS (030)

CLASS: XI

TERM 2
Max. Marks: 40

| MARKING SCHEME |  |  |  |
| :---: | :---: | :---: | :---: |
| QN | SET | VALUE POINTS | $\begin{gathered} \text { MARKS } \\ \text { SPLIT UP } \end{gathered}$ |
| 1. | A | 1. Helpful in formulation of policies.  <br> 2. Measuring inflation  <br> 3. Measuring changes in standard of living.  <br> 4. Fixing and increasing salaries of employees. (Any two) <br>    <br> OR   <br> 1. Quantitatively expressed.  <br> 2. Measure relative changes.   <br> 3. They are averages. (Any two)  | $1+1=2 \mathrm{Marks}$ |
|  | B | Standard deviation is the square root of the mean of the squares of the deviations of the values from the mean. <br> Formula $\sigma=\sqrt{\frac{\Sigma d x^{2}}{N}} \quad \text { OR } \quad \sigma=\sqrt{\frac{\left(\Sigma(X-\bar{X})^{2}\right)}{N}}$ <br> OR <br> Merits <br> 1. Based on all values. <br> 2. Rigidly defined. <br> 3. Least affected by fluctuations of sampling. <br> Demerits <br> 1. Difficult to calculate. <br> 2. Affected by extreme values. <br> 3. Cannot be used for comparison. | $1+1=2 \text { Marks }$ <br> Two Merits $1 / 2$ Mark each Two Demerits $1 / 2$ Mark each $1 / 2 \times 4=2$ Marks |
|  | C | Relation between TC and TVC <br> (a) Total cost can never be zero, even when the level of output is zero, because fixed cost is positive and constant at zero level of output. <br> (b) As the level of output increases, Total Cost also increases due to increase in variable cost <br> (c) TC and TVC are $S$ shaped (they rise initially at a decreasing rate, then at a constant rate \& finally at an increasing rate) due to law of variable proportions. <br> (d) TC and TVC curves parallel to each other. | 1/2 Mark each $1 / 2 \times 4=2$ Marks <br> 1 Mark |


|  | OR <br> Average Fixed Cost: - Fixed cost per unit output. AFC $=\frac{\text { TFC }}{\text { Output }}$ AFC curve is a rectangular hyperbola. Since TFC remains constant, AFC keeps falling with increase in output but never reaches zero. | $\begin{gathered} \text { Definition } \\ 1 \text { Mark for } \\ \text { shape } \\ 1+1=2 \text { Marks } \end{gathered}$ |
| :---: | :---: | :---: |


| 2. | A | Standard deviation is the square root of the mean of the squares of the deviations of the values from the mean. <br> Formula $\sigma=\sqrt{\frac{\Sigma d x^{2}}{N}} \quad \text { OR } \quad \sigma=\sqrt{\frac{\left(\Sigma(X-\bar{X})^{2}\right)}{N}}$ <br> OR <br> Merits <br> 4. Based on all values. <br> 5. Rigidly defined. <br> 6. Least affected by fluctuations of sampling. <br> Demerits <br> 4. Difficult to calculate. <br> 5. Affected by extreme values. <br> 6. Cannot be used for comparison. | $1+1=2 \text { Marks }$ <br> Two Merits ½ Mark each Two Demerits $1 / 2$ Mark each $1 / 2 \times 4=2$ Marks |
| :---: | :---: | :---: | :---: |
|  | B | Positive Correlation: <br> 1. Price and Supply <br> 2. Income and Expenditure. <br> Negative Correlation: <br> 1. Price and Demand <br> 2. 2. Temperature and Sale of woolens (Any other valid examples) | Two Positive Correlation $1 / 2$ Mark each Two Negative Correlation $1 / 2$ Mark each $1 / 2 \times 4=2$ Marks |
|  | C | The statement is false because MP is rate of change in TP. Hence TP keeps increasing even when MP is falling but is positive. | 1 Mark for Justification 1 Mark for reason $1+1=2$ Marks |


| 3. | A | Positive Correlation: <br> 1. Price and Supply <br> 2. Income and Expenditure. <br> Negative Correlation: <br> 1. Price and Demand <br> 2. Temperature and Sale of woolens (Any other valid examples) | Two Positive <br> Correlation <br> $1 / 2$ Mark each <br> Two Negative <br> Correlation <br> $1 / 2$ Mark each <br> $1 / 2 \times 4=2$ Marks |
| :---: | :---: | :--- | :---: |
|  | B | 1. Helpful in formulation of policies. <br> 2. Measuring inflation <br> 3. Measuring changes in standard of living. <br> 4. Fixing and increasing salaries of employees. |  |
|  |  | (Any two) |  |


|  |  | 2. Measure relative changes. <br> 3. They are averages. | (Any two) |
| :--- | :--- | :--- | :---: |


| 4. | A | Relation between TC and TVC <br> (e) Total cost can never be zero, even when the level of output is zero, because fixed cost is positive and constant at zero level of output. <br> (f) As the level of output increases, Total Cost also increases due to increase in variable cost <br> (g) TC and TVC are S shaped (they rise initially at a decreasing rate, then at a constant rate \& finally at an increasing rate) due to law of variable proportions. <br> (h) TC and TVC curves parallel to each other. <br> OR <br> Average Fixed Cost: - Fixed cost per unit output. $\mathrm{AFC}=\frac{\mathrm{TFC}}{\text { Output }}$ <br> AFC curve is a rectangular hyperbola. Since TFC remains constant, AFC keeps falling with increase in output but never reaches zero. | $1 / 2$ Mark each $1 / 2$ x4 = 2 Marks <br> 1 Mark Definition 1 Mark for shape $1+1=2$ Marks |
| :---: | :---: | :---: | :---: |
|  | B | The statement is false because MP is rate of change in TP. Hence TP keeps increasing even when MP is falling but is positive. | $\begin{gathered} \text { 1 Mark for } \\ \text { Justification } \\ 1 \text { Mark for } \\ \text { reason } \\ 1+1=2 \text { Marks } \\ \hline \end{gathered}$ |
|  | C | Standard deviation is the square root of the mean of the squares of the deviations of the values from the mean. <br> Formula $\sigma=\sqrt{\frac{\Sigma d x^{2}}{N}} \quad \text { OR } \quad \sigma=\sqrt{\frac{\left(\Sigma(X-\bar{X})^{2}\right)}{N}}$ <br> OR <br> Merits <br> 1. Based on all values. <br> 2. Rigidly defined. <br> 3. Least affected by fluctuations of sampling. <br> Demerits <br> 1. Difficult to calculate. <br> 2. Affected by extreme values. <br> 3. Cannot be used for comparison. | $1+1=2 \text { Marks }$ <br> Two Merits $1 / 2$ Mark each Two Demerits $1 / 2$ Mark each $1 / 2 \times 4=2$ Marks |


| 5. | A | The statement is false because MP is rate of change in TP. Hence TP keeps <br> increasing even when MP is falling but is positive. | 1 Mark for <br> Justification <br> 1 Mark for <br> reason <br> $1+1=2$ Marks |
| :---: | :---: | :--- | :--- |





| 8. | A | Units of capital | Units of labour | Total product | MP | 3 Marks |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  |  | 2 | 1 | 10 | 10 |  |
|  |  | 2 | 2 | 24 | 14 |  |
|  |  | 2 | 3 | 40 | 16 |  |
|  |  | 2 | 4 | 50 | 10 |  |
|  |  | 2 | 5 | 58 | 8 |  |
|  |  | 2 | 6 | 64 | 6 |  |
|  |  | 2 | 7 | 68 | 4 |  |
|  |  | 2 | 8 | 68 | 0 |  |
|  |  | 2 | 9 | 60 | -8 |  |




| 10. | A | $\begin{aligned} & \text { Given } \mathrm{P}=₹ 5 \quad \Delta \mathrm{P}=15 \quad \Delta \mathrm{Q}=15 \quad \mathrm{Es}=0.5 \mathrm{Q}=? \text { final output }=\text { ? } \\ & \mathrm{Es}=\frac{\Delta \mathrm{Q}}{\Delta \mathrm{P}} \times \frac{\mathrm{P}}{\mathrm{Q}} \quad 0.5=\frac{15}{15} \times \frac{5}{\mathrm{Q}} \quad=0.5 \mathrm{Q}=5 \quad \mathrm{Q}=\frac{5}{0.5} \quad 10 \text { units } \\ & \mathrm{Q}=\mathbf{5 0} \text { units } \\ & \text { Final output }=\mathbf{Q}+\Delta \mathrm{Q}=\mathbf{1 0}+\mathbf{1 5}=\mathbf{2 5} \text { units } \end{aligned}$ | $\begin{gathered} 1 \text { Mark for } \\ \text { formula } \\ 1 \text { mark for } \\ \text { finding 'Q' } \\ 1 \text { mark for } \\ \text { finding 'final } \\ \text { output' } \\ 1+1+1=3 \\ \text { marks } \\ \hline \end{gathered}$ |
| :---: | :---: | :---: | :---: |
|  | B | Given $\mathrm{P}=₹ 200 \Delta \mathrm{P}=₹ 50 \Delta \mathrm{Q}=50 \quad \mathrm{Es}=1 \mathrm{Q}=?$ final output $=$ ? $\text { Es }=\frac{\Delta \mathrm{Q}}{\Delta \mathrm{P}} \times \frac{\mathrm{P}}{\mathrm{Q}} \quad 1=\frac{50}{50} \times \frac{200}{\mathrm{Q}} \quad=\mathrm{Q}=200 \text { units }$ | 1 Mark for formula 1 mark for finding ' Q ' 1 mark for |









