ATOMIC ENERGY CENTRAL SCHOOL, NARORA

UNIT TEST-II 2018-2019

| Class: XI-Com. | | | Max marks: 50 Time allowed: 1-1/2 hrs | | | | | |
|--|-------------------------------|-----------------------------|--|--------|--|--|--|--|
| Sub: Economics | | | | | | | | |
| General Instructi | ons: | | | | | | | |
| (i) All questions | are compulsory and m | arks are mention | ed in front of each ques | tions. | | | | |
| (ii) Electronic dev | vices are prohibited to | use in the examir | nation. | | | | | |
| (iii) Use Blue or I | Black pen only. | | | | | | | |
| (iv) Don't write a | nswer or objectionable SEC | things on questic TION-A | on paper. | | | | | |
| 1. Answer the following questions:1x 5 | | | | | | | | |
| (i) Define produc | tion function. | | | | | | | |
| (ii) What is mean | nt by producer's equilib | rium? | | | | | | |
| (iii) Give two exa | imples each of fixed co | st and variable c | ost. | | | | | |
| (iv) What are net | t profits? | | | | | | | |
| (v) Find the aver factor are 4. | age product when tota | l product is 100 u | nits and units of variabl | е | | | | |
| 2. Answer the fo | llowing questions: | | | | | | | |
| (a) Distinguish b | etween fixed costs and | l variable costs. | | 3 | | | | |
| (b) What is mean | nt by total revenue, ave | erage revenue an | d marginal revenue? | 3 | | | | |
| (c) Explain the re | elationship between av | erage cost and m | arginal cost. | 3 | | | | |
| 3. Complete the | following table: | | | 3 | | | | |
| Output | TVC | AVC | MC | | | | | |
| (units) | (Rs) | (Rs) | (Rs) | | | | | |
| 1 | 20 | | | | | | | |
| | | 16 | 12 | | | | | |
| 3 | 54 | | | | | | | |
| | | 20 | 26 | | | | | |
| 4. Complete the | following table: | | | 4 | | | | |
| Output | Average revenue | Total revenue | Marginal revenue | | | | | |
| (units) | (Rs) | (Rs) | (Rs) | | | | | |
| 1 | 20 | | | | | | | |
| 2 | | 36 | | | | | | |
| 3 | | | 9 | | | | | |
| 4 | 13 | 52 | | | | | | |
| 5 | | | - 2 | | | | | |
| 5 Mbat are the | different phases in the | low of voriable pr | onortiono in tormo of | | | | | |

5. What are the different phases in the law of variable proportions in terms of total product? Use diagram.

SECTION -B

- 6. Answer the following questions:
- (i) What do you mean by mode?
- (ii) Find the median of the following values:

1 x 5=5

4

| 30, 20, 15, 10, 25, 35, 18, 21, 28, 40, 36 | | | | | | | | | | |
|--|---|--|--|-----------|--|----------|--------|-------|-----|---|
| | (iii) Give any two characteristics of good average. | | | | | | | | | |
| (iv) Pocket allowance of 10 students is Rs.15, 20, 30, 22, 25, 18, 40, 50, 55, | | | | | | | | | | |
| | and 65. Fi | nd out th | ie averag | ge pocke | et allowa | nce. | | | | |
| | (v) Give formu | , 15, 10, 25, 35, 18, 21, 28, 40, 36a) two characteristics of good average.allowance of 10 students is Rs.15, 20, 30, 22, 25, 18, 40, 50, 55,. Find out the average pocket allowance.mula of weighted average.ne following:(b) Standard deviation(c) Lorenz curvee range and coefficient of range from the following data:3(Rs):50708090100120130150cers:2812743610101301501210182024arithmetic mean using direct or short-cut method.ate median, Q1, Q3 and D9 from the following data:43945801001101301501802005789112012434578911201243434439458911201243 | | | | | | | | |
| | 7. Define the f | ollowing | 10, 25, 35, 18, 21, 28, 40, 36 characteristics of good average. ance of 10 students is Rs.15, 20, 30, 22, 25, 18, 40, 50, 55, out the average pocket allowance. of weighted average. bwing: (b) Standard deviation (c) Lorenz curve ge and coefficient of range from the following data: 50 2 8 12 7 4 3 86 90 100 120 130 150 2 8 12 7 4 3 86 6 100 120 130 150 2 150 2 100 120 130 150 2 130 150 2 130 150 150 2 130 150 150 2 100 120 130 150 150 150 110 130 150 180 200 110 130 150 180 200 110 120 12 4 3 | | | | | | | |
| (a) Range (b) Standard deviation (c) Lorenz curve | | | | | | | | | | |
| | 8. Calculate ra | ange and | 10, 25, 35, 18, 21, 28, 40, 36o characteristics of good average.vance of 10 students is Rs.15, 20, 30, 22, 25, 18, 40, 50, 55,d out the average pocket allowance.a of weighted average.llowing:(b) Standard deviation(c) Lorenz curveige and coefficient of range from the following data: 50 2 8 12 7 4 3 6 in. Discuss its merits and demerits.class XI obtained following marks in statistics in the 4 5 6 7 8 12 10 18 20 24 netic mean using direct or short-cut method.edian, Q1, Q3 and D9 from the following data: 39 45 8 9 11 20 12 45 8 9 11 20 12 4 | 3 | | | | | | |
| | Income (Rs |): 50 |) 70 | 80 | 90 | 100 1 | 20 130 |) 150 | | |
| | No. of workers | s: 2 | 8 | 12 | 7 | 4 3 | 8 8 | 6 | | |
| | 9. Define med | ian. Disc | cuss its n | nerits an | , 28, 40, 36 is Rs.15, 20, 30, 22, 25, 18, 40, 50, 55, ket allowance. . 3 riation (c) Lorenz curve range from the following data: 3 90 100 120 130 150 7 4 3 8 6 and demerits. 3 3 6 and demerits. 3 3 6 20 24 24 3 ct or short-cut method. 9 110 130 150 180 200 9 11 20 12 4 3 | 3 | | | | |
| 10. Students of class XI obtained following marks in statistics in the | | | | | | | | | | |
| | weekly tes | st: | | | • | | | | | 3 3 3 3 3 4 <u>200</u> 3 |
| | Marks: | 4 | 5 | 6 | 7 | 8 | | | | |
| | No. of student | s: 12 | 10 | 18 | 20 | 24 | | | | |
| | Calculate arith | metic m | ean usin | a direct | or short- | -cut met | hod. | | | 3 3 3 3 3 4 200 3 |
| 11. Calculate median. Q1. Q3 and D9 from the following data: | | | | | | | | 4 | | |
| | Wages | 39 | 45 | 80 | 100 | 110 | 130 | 150 | 180 | 200 |
| | No of | 5 | 7 | 8 | 9 | 11 | 20 | 12 | 4 | 3 |
| | students | • | • | | | | | | | |
| | | | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 |

12. Find out quartile deviation and the coefficient of quartile deviation of the following data:

| the following data: | | | | | | | | 4 | |
|---------------------|----|----|----|----|----|----|----|----|----|
| Height(inches) | 58 | 59 | 60 | 61 | 62 | 63 | 64 | 65 | 66 |
| No. of | 2 | 3 | 6 | 15 | 10 | 5 | 4 | 3 | 1 |
| students | | | | | | | | | |