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Name.....

Roll No.....

Date: 15/06/2016

## SHREE GURU KRIPA'S INSTITUTE OF MANAGEMENT



### REVISION TEST – 3

### CPT – ECONOMICS & MATHS

**Total Marks: 100**

**Time: 2 hours**

**Total No. of Questions: 100**

**No. of Printed pages: 8**

1. Allocation of resources is the subject matter of \_\_\_\_
  - (a) Micro economics
  - (b) Macro economics
  - (c) Development economics
  - (d) Welfare economics
2. Micro Economics is connected with \_\_\_\_
  - (a) Consumer's Behaviour
  - (b) Product pricing
  - (c) Factor pricing
  - (d) all of these
3. Fixed costs are also called \_\_\_\_
  - (a) direct costs
  - (b) prime costs
  - (c) supplementary costs
  - (d) opportunity costs
4. Direct costs are also known as \_\_\_\_
  - (a) traceable costs
  - (b) indirect costs
  - (c) opportunity costs
  - (d) none of these
5. Change in Scale means that all Factors of Production are increased or decreased –
  - (a) In different proportions
  - (b) In the same proportion
  - (c) To infinity
  - (d) None of the above
6. The firm's AFC is Rs.200 for 10 units. What will be the average fixed costs at 20 units?
  - (a) 500
  - (b) 200
  - (c) 150
  - (d) 300
7. Long run price is also known as \_\_\_\_
  - (a) administered price
  - (b) market price
  - (c) normal price
  - (d) none
8. Toothpaste industry is an example for \_\_\_\_
  - (a) monopoly
  - (b) monopolistic competition
  - (c) oligopoly
  - (d) perfect competition
9. AR & MR are same in \_\_\_\_ market
  - (a) oligopoly
  - (b) monopoly
  - (c) perfect competition
  - (d) none
10. In monopoly when price elasticity is 1, then the MR is \_\_\_\_
  - (a) 1
  - (b) 0
  - (c) negative
  - (d) positive
11. Amount paid to the outside factors of production are known as \_\_\_\_
  - (a) implicit costs
  - (b) explicit costs
  - (c) traceable costs
  - (d) opportunity costs
12. An increase in demand with unchanged supply leads to \_\_\_\_
  - (a) rise in price
  - (b) fall in price
  - (c) no change in price
  - (d) an increase in supply
13. When supply curve takes a rightward shift, then supply \_\_\_\_
  - (a) decreases
  - (b) contracts
  - (c) expands
  - (d) increases
14. When the income increases, then demand decreases for \_\_\_\_
  - (a) veblen goods
  - (b) conspicuous goods
  - (c) normal goods
  - (d) inferior goods
15. Which of the following are not true?
  - (a) Wants are limited
  - (b) resources are scarce
  - (c) resources have alternative uses
  - (d) both (b) & (c)
16. Average revenue curve is also known as \_\_\_\_
  - (a) profit curve
  - (b) demand curve
  - (c) supply curve
  - (d) none of these
17. Which of the following statements is incorrect?
  - (a) Competitive firms are price takers and not price makers
  - (b) Price discrimination is possible in monopoly only
  - (c) Duopoly may lead to monopoly
  - (d) Competitive firms always try to discriminate prices
18. Find AFC of 2 units by using the table given below:
 

Output	0	1	2
TC	580	690	850

  - (a) 105
  - (b) 135
  - (c) 290
  - (d) 161
19. Market Demand is the sum total of –
  - (a) All quantities that Producers can produce
  - (b) All quantities actually sold in the market
  - (c) All quantities demanded by individual households and consumers
  - (d) All of the above

20. The first stage of law of variable proportions is known as \_\_\_\_\_  
(a) increasing returns  
(b) diminishing returns  
(c) constant returns  
(d) none
21. Primary sector includes \_\_\_\_\_  
(a) Transport and shipping  
(b) banking and financial institutions  
(c) mining and quarrying  
(d) insurance
22. The IRDP was started in \_\_\_\_\_ plan  
(a) 5th  
(b) 6th  
(c) 7th  
(d) 8th
23. Which is the regulatory authority of telecom in India  
(a) BSNL  
(b) MTNL  
(c) SEBI  
(d) TRAI
24.  $GNP = \text{_____} + NFIA$   
(a) NNP FC  
(b) NNP MP  
(c) GDP  
(d) National Income
25. National Income is measured by \_\_\_\_\_  
(a) Ministry of finance  
(b) CSO  
(c) RBI  
(d) SBI
26. The difference between narrow money and broad money is \_\_\_\_\_  
(a) Time deposits  
(b) Saving deposits  
(c) Post office saving deposits  
(d) none of these
27. Which of the following related to financial reforms \_\_\_\_\_  
(a) Banking  
(b) Insurance  
(c) Capital  
(d) All of these
28. The main reason behind the implementation of economic reforms in the year 1991 is \_\_\_\_\_  
(a) Indication from world bank  
(b) Failure of economic policies of present government  
(c) low foreign exchange reserves  
(d) none of these
29. National Bank for agriculture and rural development (NABARD) is \_\_\_\_\_  
(a) a commercial bank  
(b) a co-operative bank  
(c) an apex bank set up for rural & agriculture credit  
(d) a subsidiary of SBI
30. In India, most of the unemployment is \_\_\_\_\_  
(a) Disguised  
(b) Open  
(c) Cyclical  
(d) Urban
31. Personal disposable income is \_\_\_\_\_  
(a) Personal Income – net indirect taxes  
(b) Personal Income – Indirect taxes  
(c) Personal Income – personal taxes  
(d) none of these
32. Fiscal policy refers to \_\_\_\_\_  
(a) Public debt  
(b) public revenue  
(c) public expenditure  
(d) all of the above
33. The systematic record of all receipts and payments of international trade is known as \_\_\_\_\_  
(a) Balance of Trade  
(b) Balance of Payment  
(c) Balance of current account  
(d) Balance of capital account.
34. 1921 is termed as \_\_\_\_\_ in the history of Indian population  
(a) beginning census  
(b) Great divide  
(c) beginning registration system  
(d) beginning of family planning
35. Trade disputes in international trade are settled by \_\_\_\_\_  
(a) WTO  
(b) ILO  
(c) IBRD  
(d) UNO
36. The static function of money is \_\_\_\_\_  
(a) store of value  
(b) medium of exchange  
(c) standard of deferred payments  
(d) all of these
37. The apex bank for industrial finance in India is \_\_\_\_\_  
(a) IDBI  
(b) RBI  
(c) SBI  
(d) Ministry of Finance

38. The main cause for unemployment in India is \_\_\_\_
- raising prices
  - increase in public expenditure
  - defective mandatory policy
  - unproper utilization of resources
39. Devaluation of currency stands for \_\_\_\_
- increase in the value of domestic currency in terms of foreign currency
  - decrease in the value of domestic currency in terms of foreign currency
  - keeping value of domestic currency as constant in terms of foreign currency
  - none of these
40. Purchasing power of a consumer is low when rise in the general price level is a situation relates to \_\_\_\_
- inflation
  - deflation
  - stagflation
  - none
41. Measurement of value of goods and services is \_\_\_\_ function of money
- medium of exchange
  - unit of account
  - standard of differed payments
  - store of value
42. Important problem in calculating GNI is \_\_\_\_
- double counting
  - smuggling
  - black marketing
  - unorganized market
43. Encouragement of Foreign Direct Investment & removal of Quantitative Restrictions are both parts of
- Industrial Reforms in India
  - External Sector Reforms in India
  - Land Reforms in India
  - Banking Reforms in India
44. Which of the following organization gives interest free loans to the poor countries?
- International Monetary Fund
  - World Bank
  - International Financial Corporation
  - International Development Association
45. Lowering of margin requirements by Central Bank \_\_\_\_\_ borrowings?
- Encourages
  - discourages
  - No impact
  - None of these
46. When the Government tries to meet the gap of Public Expenditure and Public Revenue through Borrowing, it is called—
- Deficit Financing
  - Debt Financing
  - Credit Financing
  - None of the above
47. The Inflation experienced in the country at present is ..... Inflation.
- Cost–Push
  - Demand–Pull
  - Scarcity
  - Excess
48. Problems like managerial difficulties, low employee morale, higher input prices, etc. arising out of large scale operations lead to—
- RLarge Economies of Scale
  - Pecuniary Economies of Scale
  - Real Economies of Scale
  - Diseconomies of Scale
49. In India, Foreign Direct Investment (FDI) is allowed
- At a standard rate of 26%
  - At a standard rate of 49%
  - In different levels i.e. 26%, 49%, 51%, 74% and even up to 100%
  - In different levels i.e. 26%, 49%, 51%, 74% but not 100%
50. Which of the following is not an instrument of Monetary Policy?
- Open market Operations
  - Bank Rate Policy
  - Reserve Requirement Changes
  - Government Spending
51. In a group of 20 males and 15 females, 12 males and 8 females are service holders. What is the probability that a person selected at random from the group is a service holder given that the selected person is a male?
- 0.20
  - 0.30
  - 0.60
  - 0.75
52. If you save 1 paise today, 2 paise the next day 4 paise the succeeding day and so or, then your total savings in two weeks will be
- ₹ 163
  - ₹ 18
  - ₹ 163.83
  - None of these
53. In Binomial distribution if mean = 20, SD=4 then n is equal to
- 80
  - 100
  - 90
  - None

54. If  $p:q$  is the Sub Duplicate Ratio of  $p - x^2 : q - x^2$  then  $x^2$  is –

- (a)  $\frac{p}{p+q}$   
 (b)  $\frac{q}{p+q}$   
 (c)  $\frac{pq}{p-q}$   
 (d)  $\frac{pq}{p+q}$

55. For tabulation, 'caption' is

- (a) The upper part of the table  
 (b) The lower part of the table  
 (c) The main part of the table  
 (d) The upper part of a table that describes the column and sub-column

56. Find the Value of  $\int_3^3 x\sqrt{8-x^2} dx$

- (a) -1  
 (b) 1  
 (c) 0  
 (d) None of these

57. The more scattered the points are around a straight line a scattered diagram the \_\_\_\_\_ is the correlation coefficient.

- (a) Zero  
 (b) More  
 (c) Less  
 (d) None

58. 6 seats of articled clerks are vacant in a 'Chartered Accountant firm'. How many different batches of candidates can be chosen out of 10 candidates if one candidate is always selected?

- (a) 124  
 (b) 125  
 (c) 126  
 (d) None of these

59. Find the mean and standard deviation of  $x$  where  $x$  is a Poisson variate satisfying the condition  $P(x=2) = P(x=3)$ .

- (a) 2  
 (b) 3  
 (c) 4  
 (d) 5

60. A sum was put at simple interest, at a certain rate for 3 years. Had it been put at 1% higher rate it would have fetched ₹63 more. The sum is –

- (a) ₹2,400  
 (b) ₹2,200  
 (c) ₹2,100  
 (d) ₹2,480

61. The mean of the following data is 6. Find the value of  $P$ .

x:	2	4	6	10	P+5
Y:	3	2	3	1	2

- (a) 4  
 (b) 6  
 (c) 8  
 (d) 7

62. In the Co-ordinate Plane, if the points (1,3), (-2, 1) and (k, -1) are Collinear then the value of 'k' is

- (a) 0  
 (b) -5  
 (c) 4  
 (d) 7

63. The independent probabilities that the three sections of a costing department will encounter a computer error are 0.2, 0.3 and 0.1 per week respectively. What is the probability that there would be at least one computer error per week?

- (a) 0.25  
 (b) 0.50  
 (c) 0.94  
 (d) 0.65

64. The sum of  $m$  terms of the series is  $1+11+111+\dots$  is equal to

- (a)  $\frac{1}{81} [10^{m+1} - 9m - 10]$   
 (b)  $\frac{1}{27} [10^{m+1} - 9m - 10]$   
 (c)  $[10^{m+1} - 9m - 10]$   
 (d) None of these

65. Compute the correlation coefficient between  $x$  and  $y$  from the following data.

$$n = 10, \quad \sum x = 40, \quad \sum y = 50, \quad \sum xy = 220, \\ \sum x^2 = 200, \quad \sum y^2 = 262.$$

- (a) 0.33  
 (b) 0.51  
 (c) 0.91  
 (d) 0.87

66. Bowley's Index Number = 150, Laspeyer's Index = 180, then Paasche's Index Number is –

- (a) 120  
 (b) 30  
 (c) 105  
 (d) None

67. What must be added to each of the numbers 10, 18, 22, 38 to make them proportional:

- (a) 5  
 (b) 2  
 (c) 3  
 (d) 9

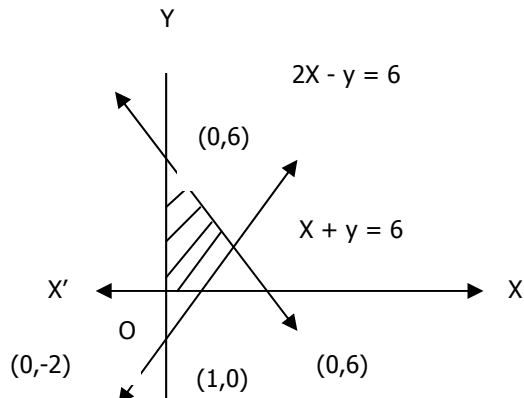
68. Hidden trend, if any, in the data can be noticed in  
 (a) Textual presentation  
 (b) Tabulation  
 (c) Diagrammatic representation  
 (d) All these
69. If 7 distinct things are to be divided in 3 groups, consisting of 2, 2, and 3 things respectively, find the number of ways this can be done.  
 (a) 105  
 (b) 210  
 (c) 100  
 (d) None
70. In a circular test the condition must be satisfied  
 (a)  $P_{01} \times P_{12} \times P_{20} = 1$   
 (b)  $P_{02} \times P_{10} \times P_{20} = 1$   
 (c)  $P_{10} \times P_{20} \times P_{21} = 1$   
 (d) None of these
71.  $U = 5t^4 + 4t^3 + 2t^2 + t + 4$  at  $t = -1$  find  $du/dt$   
 (a) -11  
 (b) 11  
 (c) -16  
 (d) 16
72. If the weekly wages of 5000 workers in a factory follows Normal Distribution with Mean and Std Deviation as ₹ 700 and ₹ 50 respectively. What is the expected number of workers with Wages between ₹ 660 and ₹ 720?  
 (a) 2,050  
 (b) 2,200  
 (c) 2,218  
 (d) 2,300
73. Johnson left ₹1,00,000 with the direction that it should be divided in such a way that his minor sons Tom Dick and Harry aged 9, 12 and 15 years should each received equally after attaining the age 25 years. The rate of interest being 3.5% how much each son receive after getting 25 years old?  
 (a) ₹50,000  
 (b) ₹51,994  
 (c) ₹52,000  
 (d) None
74. A random variable  $x$  has the following probability distribution:
- |      |    |    |   |     |       |        |            |
|------|----|----|---|-----|-------|--------|------------|
| X    | 1  | 2  | 3 | 45a | 5     | 6      | 7          |
| P(X) | 2k | 3k | k | 2k  | $k^2$ | $7k^2$ | $2k^2 + k$ |
- Find the value of  $P(2 < x \leq 5)$ .  
 (a) 0.56  
 (b) 0.48  
 (c) 0.69  
 (d) 0.31
75. Evaluate  $\int \frac{(3x+2)dx}{(x-2)(x-3)}$ .  
 (a)  $-\log(x-2) + 11\log(x-3) + c$   
 (b)  $\log(x-2)(x-3) + c$   
 (c)  $\log(3x+2) + c$   
 (d)  $-\log(x-2) + \log(x-3) + c$
76. For the variables  $x$  and  $y$ , the regression equations are given as  $7x - 3y - 18 = 0$  and  $4x - y - 11 = 0$ . After finding the arithmetic means of  $x$  and  $y$ , compute the correlation coefficient between  $x$  and  $y$ . If the variance of  $x$  is 9, find the SD of  $y$ .  
 (a) 8.5642  
 (b) 6.2453  
 (c) 9.1647  
 (d) 7.4789
77. In a class 30 students, 20 students like maths, 18 like science and 12 like both the subject. Find the number of student who likes no subject.  
 (a) 4  
 (b) 5  
 (c) 8  
 (d) None of these
78. A factory produces 60,000 pairs of shoes on a daily basis. From a sample of 600 pairs, 3 per cent were found to be of inferior quality. Estimate the number of pairs that can be reasonably expected to be spoiled in the daily production process at 95% level of confidence.  
 (a) [989,2612]  
 (b) [782,2618]  
 (c) [882,2618]  
 (d) None of these
79. If  $(25)^{150} = (25x)^{50}$  then the value of  $x$  will be  
 (a)  $5^3$   
 (b)  $5^4$   
 (c)  $5^2$   
 (d) 5
80. Quartile deviation is called \_\_\_\_\_. Hence it is \_\_\_\_\_ the Inter Quartile Range.  
 (a) Semi Inter Quartile range , Half  
 (b) Quartile range, Equal  
 (c) Both (a) and (b)  
 (d) None
81. From the table, compute the Real GNP for the year 1972
- | Year | Wholesale Price Index | GNP at current prices. |
|------|-----------------------|------------------------|
| 1970 | 113.1                 | 7499                   |
| 1971 | 116.3                 | 7935                   |
| 1972 | 121.2                 | 8657                   |
| 1973 | 127.7                 | 9323                   |
- (a) 6630  
 (b) 7143  
 (c) 7301  
 (d) 6823

82. Marks of 8 students in Mathematics and Statistics are given as follows.

Maths	80	75	76	69	70	85	72	68
Stats	85	65	72	68	67	88	80	70

Find the regression lines. When mark of a student in Mathematics is 90, what is his most likely mark in Statistics?

- (a) 73  
 (b) 64  
 (c) 92  
 (d) 81
83. By lines  $x + y = 6$ ,  $2x - y = 2$ , the common region shown in the diagram refers to



- (a)  $x + y \geq 6$ ,  $2x - y \leq 2$ ,  $x \geq 0$ ,  $y \geq 0$   
 (b)  $x + y \leq 6$ ,  $2x - y \leq 2$ ,  $x \geq 0$ ,  $y \geq 0$   
 (c)  $x + y \leq 6$ ,  $2x - y \geq 2$ ,  $x \geq 0$ ,  $y \geq 0$   
 (d) None of these
84.  $f(x) = \frac{x-x}{x}$ ,  $x \neq 0$  and  $f(0) = 2$  then  $f(x)$  is:
- (a) Un defined  
 (b) Continuous at  $x = 0$   
 (c) Continuous at  $x = 2$   
 (d) Not continuous
85. The following data relate to the marks of a group of students :

Marks	No. of students
Below 10	15
Below 20	38
Below 30	65
Below 40	84
Below 50	100

How many students got marks more than 30?

- (a) 65  
 (b) 50  
 (c) 35  
 (d) 43
86. The four numbers in AP whose sum is 20 and the sum of their squares is 120 are
- (a) 3, 5, 7, 9  
 (b) 2, 4, 6, 8  
 (c) 5, 9, 13, 17  
 (d) None

87. For a moderately skewed distribution, which of the following relationship holds?

- (a) Mean - Mode = 3 (Mean - Median)  
 (b) Median - Mode = 3 (Mean - Median)  
 (c) Mean - Median = 3 (Mean - Mode)  
 (d) Mean - Median = 3 (Median - Mode)

88. If  $\log \frac{x+y}{5} = \frac{1}{2}(\log x + \log y)$ , then  $\frac{x}{y} + \frac{y}{x} =$

- (a) 20  
 (b) 23  
 (c) 22  
 (d) 21

89. The standard deviation of a Poisson variate is 1.732. What is the probability that the variable lies between -2.3 to 3.68?

- (a) 0.55  
 (b) 0.65  
 (c) 0.75  
 (d) 0.85

90. If  $f(x) = x^2 - 1$  and  $g(x) = \frac{x+1}{2}$  then  $\frac{f(3)}{f(3)+g(3)}$  is

- (a) 5/4  
 (b) 4/5  
 (c) 3/5  
 (d) 5/3

91. Consecutive rectangles in a \_\_\_\_\_ have no space in between.

- (a) Pie Chart  
 (b) Bar chart  
 (c) Histogram  
 (d) Frequency polygon

92. In what time will ₹8,000 amount to ₹8820 at 5% p.a. interest compounded half-yearly?

- (a) 3 years  
 (b) 2 years 5 months  
 (c) 2 years  
 (d) 2 years 1 month

93. Two variables X and Y are related as  $4x + 3y = 7$ , then the Correlation between x and y is -

- (a) Perfect Positive  
 (b) Perfect Negative  
 (c) Zero  
 (d) None of these

94.  $\lim_{x \rightarrow 3} \frac{x^n - 3^n}{x - 3} = 405$  find n:

- (a) 4  
 (b) 5  
 (c) 3  
 (d) 1

95. The sum of the squares of deviations for 10 items from the mean ( $= 50$ ) is 250. The coefficient of variation is –
- (a) 25
  - (b) 50
  - (c) 10
  - (d) 100
96. The number of roots of the equation  $[(x + 2) \times (x - 5)] / [(x - 3) \times (x + 6)] = (x - 2)/(x + 4)$  is
- (a) 1
  - (b) 2
  - (c) 3
  - (d) No root
97. For two events A and B,  $P(B) = 0.3$ ,  $P(A \text{ but not } B) = 0.4$  and  $P(\text{not } A) = 0.6$ . The events A and B are
- (a) Exhaustive
  - (b) Independent
  - (c) Equally likely
  - (d) Mutually exclusive
98. How many different words can be formed beginning with 'E' of the word 'TRIANGLE'?
- (a) 8!
  - (b) 7!
  - (c) 6!
  - (d)  $2! \times 6!$
99. Fisher's ideal index is
- (a) Arithmetic mean of Laspeyre's and Paasche's index.
  - (b) Median of Laspeyre's and Paasche's index.
  - (c) Geometric mean of Laspeyre's and Paasche's index.
  - (d) Geometric mean of Bowley's and Paasche's index.
100. The gradient of the curve  $y = 2x^3 - 3x^2 - 12x + 8$  at  $x = 0$  is
- (a) -12
  - (b) 12
  - (c) 0
  - (d) 1