

K18U 1516

12. A jar contains 3 red marbles, 7 green marbles and 10 white marbles oN .geR Name : marble is drawn from the jar at random, what is the probabili

V Semester B.A. Degree (CBCSS-Reg./Sup./Imp.) Examination, November 2018 (2014 Admn. Onwards) Core Course in Economics/Development Economics 5B 07 ECO - BASIC TOOLS FOR ECONOMIC ANALYSIS - I

Time: 3 Hours

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Answer any 4 questions (Each question carries 3 marks)

PART-A

Answer all questions (Each question carries 1 mark) :

- 1. Define probability.
- 2. What is Gini coefficient ?
- 3. What is a Quadratic function ? Give an example.
- 4. Define set.

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(1) medien (2) lower quartie PART - Brider of students w

Answer any seven questions (Each question carries 2 marks) :

- 5. Explain the law of indices.
- 6. Two thirds of a number increased by 5 equals 27. Find the number.
- 7. Solve the equation $x^2 + 9x + 18$.
- 8. Distinguish between census and sampling.
- 9. Compute the Arithmetic mean of the following data by direct and short cut method. 5 10 15 20 30 40 50 30
- 20. Write a short note on Lorenz curve. 10. If A = $\{1, 2\}$ and B = $\{x, y, z\}$, find A×B, B×A, A×A, B×B.
- 11. What is skewness ? Draw diagrams for positively and negatively skewed

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- 12. A jar contains 3 red marbles, 7 green marbles and 10 white marbles. If a marble is drawn from the jar at random, what is the probability that the marble drawn is white ?
- 13. If the quantity supplied of a commodity in the market is given by Qs = -20 + 3p and the quantity demanded is 220 5p. Find the equilibrium price and quantity in the market.
- 14. Mention the various sources of secondary data.

(7×2=14)

O – TRAP Answer all questions (Each question carries 1 mark)

Answer any 4 questions (Each question carries 3 marks) :

15. With the help of the following data, construct a Histogram.

()-	Marks obtained Number of students	0-300 15	300-400 18	400-500 20	500-600 24	600-700 16	700-1000 10
16.	5. Solve the following equations.						
	x + y = 7			TRA9			

 $x^2 + y^2 = 25$

17. Draw two ogive curves for the frequency distribution.

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- 18. Explain the various types of sampling techniques.
- 19. Distinguish between Arithmetic progression and Geometric progression.
- 20. Write a short note on Lorenz curve.

(4×3=12)

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PART – D

-3-

Answer any 2 questions (Each question carries 5 marks) :

- 21. Explain in detail the various methods of collecting primary data.
- 22. The marks obtained by 200 students in an examination are given below.

Marks	Number of Students
0-10	5
10-20	10
20-30	11 ⁸⁸¹ - A
30-40	20
40-50	27
50-60	38
60-70	40
70-80	29
80-90	14
90-100	6
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Draw an ogive for the above distribution. From the ogive, estimate the (1) median (2) lower quartile (3) the number of students who obtained more than 80% marks in the examination (4) the number of students who did not pass, if the pass percentage is 35%.

- 23. Explain the addition and multiplication rules of probability with suitable examples.
- 24. Explain the measures of dispersion.

 $(2 \times 5 = 10)$

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