	g. No. :
Na	me :
	Degree (CBCSS-
	Core Cours
	5B 07 ECO:
Ti	me: 3 hrs
	Answer All questi
1.	What is market eq
2.	Solve for x , $4x^2-9=$
3.	What is conditiona
4.	Define Histogram.
	Answer any 7 que

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V Semester B.A

- Reg./Sup./Imp.) Examination, November-2019 (2014 Admn. Onwards)

se in Economics/Development Economics BASIC TOOLS FOR ECONOMIC ANALYSIS-I

Max. Marks: 40

Part-A

ions (Each question carries 1 mark).

 $(4 \times 1 = 4)$

- quilibrium?
- =0
- al probability?

Part-B

estions (Each question carries 2 marks).

 $(7 \times 2 = 14)$

- 5. A ball is drawn at random from a bag containing 4 white balls, 6 black balls and 5 green balls. Find the probability that the ball drawn is
 - White a)
 - b) Green
 - Black
 - Green or White

P.T.O.

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- 6. Explain the law of indices.
- 7. Solve the Equation $x^2 7x + 12$
- Distinguish between a positively skewed distribution and a negatively skewed distribution.
- Compute the Median of the following figures
 280, 180, 96, 98, 104, 75, 80, 94, 100, 75, 600, 200
- **10.** If $U = \{1, 2, 3, 4, 5, 6, 7\}$, $A = \{1, 2, 3, 4, 5\}$, $B = \{2, 5, 7\}$ Prove that $(A \cap B)' = A' \cup B'$.
- 11. What is Simple Random sampling?
- 12. The Demand for a commodity in Kilogram for a price in Rs is given by D = 100(10-p) and the supply for the same is given by S=75(p-3). The market is such that the demand equals supply. Find the market price and the quantity that will be bought and sold.
- 13. Differentiate between frequency polygon and frequency curve.
- 14. Find two numbers whose sum is 30 and difference is 4.

16

Part-C

Answer any 4 questions (Each question carries 3 marks) (4x3=12)

25

30

18

10

8

15. With the help of the following data, construct a HistogramMarks obtained 0-10 10-20 20-30 30-40 40-50 50-60 60-70

20

16. Solve the following equations

Number of students

$$x + y = 12$$
$$x^2 + y^2 = 74$$

 Represent the following distribution by the ogive curves and calculate the median from it.

Class 0-10 10-20 20-30 30-40 40-50 50-60 60-70 70-80 Frequency 5 8 7 12 28 20 10 10

Frequency 2

(3)

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- 18. Explain the laws of set operations with suitable examples.
- 19. Distinguish between Arithmetic progression and Geometric Progression. Given the series 1.3,5,7....., find the 50th term?
- 20. Calculate the compound growth at the end of 5 years, if a customer deposits Rs. 100 with a bank at an annual interest rate of 4%.

Part-D

Answer any 2 question (Each question carries 5 marks. (2×5=10)

- 21. Explain in detail the various methods of collecting data.
- 22. Calculate the mean, median, quartiles and interquartile range of the following frequency distribution
 class 0-15 15-25 25-35 35-45 45-55 55-65 65-75 75-85 85-95

60 101 152 205 155

- 23. Explain the various types of functions.
- 24. Construct the total cost and average cost curves from the cost relation for a sugar refinery given by $C = \frac{1}{10}x^2 + 5x + 200$ where x is the number of tons of sugar produced per week in a refinery and C is the total cost per week for the production of x tons of sugar (For Total cost, put values for x-0,20,40,60,90 and fro Average cost, put values for x-10,20,50,100).