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Reg. No. : .....

## V Semester B.A. Degree (CBCSS – Reg./Sup./Imp.) Examination, November 2020 (2014 Admn. Onwards) CORE COURSE IN ECONOMICS/DEVELOPMENT ECONOMICS 5B07 ECO : Basic Tools for Economic Analysis – I

Time : 3 Hours Max. Marks : 40

nationality and a solution of solution and correct average mark.

## PART - A

Answer all questions and each question carries 1 mark :

- 1. Descriptive statistics.
- 2. Real numbers.

(1.922) (4.61) (4.61) (1.922)

- 3. Function.
- 4. Sample space.
  - PART B

Short answer type questions, answer **any 7** questions and **each** question carries **2** marks :

- 5. Solve  $\frac{2}{x+7} = \frac{4}{x}$ .
- 6. Find the equation of a straight line passing through the point (4, 5) and whose slope is 6. 2 and the last term is  $\frac{22}{2}$ .

7. Find the AP of 6 terms, if the first term is  $\frac{2}{3}$  and the last term is  $\frac{22}{3}$ .

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8. In an examination written by 100 students, 48 students passed in mathematics, 40 students in economics and 25 students passed in both. How many students have failed in these two subject ?

- 9. Discuss the distributive law of set theory.
- 10. Properties of Arithmetic Mean.
- 11. The rate of increasing in population of India during the last three decades is 5%, 8% and 12%, then the average rate growth is
- 12. The average mark declared by a teacher in a class test is 180. The class consists of only 100 students. Later on it was discovered that a student's mark was misread as 220 instead of 120. Find the correct average mark.
- 13. Simple event and compound event.
- 14. In Tossing a coin thrice, let event, A : there is exactly one head and B : there are at least two head. Find out  $P(A \cup B)$ ?  $(7 \times 2 = 14)$

PART-C

Short essay type questions. Answer any 4 questions and each question carries 3 marks :

- 15. Find the value of  $\frac{(18.4)^{1/3}(1.922)^2}{\sqrt{(1.12)(0.85)}}$ . 16. Find the equilibrium price and quantity, if supply and demand functions are
- 17. Find the slope and Y-intercept of the function 2Y = 12x 6. ns anotzaulo aci 18. What are the various types of statistical graphs and diagrams used in
- 19. Consider the values 32, 35, 36, 37, 39, 41 and 43. Show that AM>GM>HM. 20. An urn contains 10 black and 5 white balls. Two balls are drawn from the urn one after the other without replacement. What is the probability that both

 $(4 \times 3 = 12)$ 

## PART – D

Essay type questions. Answer any 2 questions and each question carries 5 marks :

- 21. Solve :
  - x + y = 7y + z = 9z + x = 8.
- 22. What are the various types of function and discuss its uses in economics ?
- 23. Calculate the coefficient of Skewness from the following data and comment the result :

v	0 10	10.20	20-30	30-40	40-50	50-60	60-70	70-80
Λ	10-10	10-20	20 00	00.0		00	10	16
f	6	12	22	48	56	32	10	10

24. Discuss the various approaches to probability.

 $(2 \times 5 = 10)$