SESSION 2024-25

BASAVA INTERNATIONAL SCHOOL
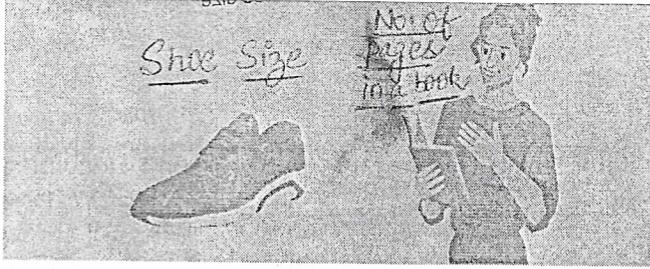## TERM I EXAMINATION
SUBJECT-ECONOMICS (030)

DATE: 09-09-2024

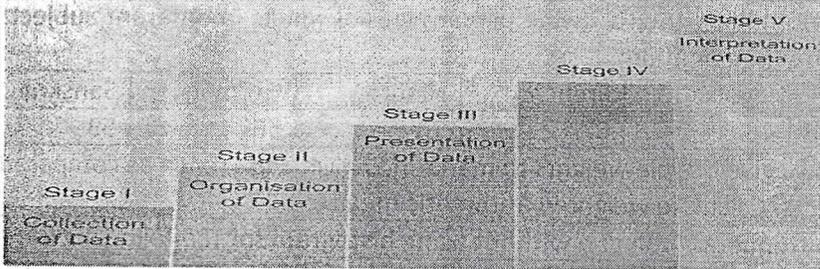CLASS-XI

M.M-80

TIME-3 Hrs.

General Instructions:

- This question paper is divided into two parts:
  Part A-STATISTICS
  Part B-MICRO ECONOMICS
- All questions in both the sections are compulsory.
- Marks for questions are indicated against each question.
- Answers to questions carrying 1 mark from one word to one sentence.
- Answers to questions carrying 3 marks may be from 50-60 words.
- Answers to questions carrying 4marks may be about 60-70 words.
- Answers to questions carrying 6 marks may be about 100 words.
- Attempt all parts of a question together.
- Answer should be brief and to the point and the above word limit be adhered to as far as possible.

PART-A(STATISTICS)				
1.	A	B	C	D	(1)

A	B	C	D
Ria's weight is 50 kg.	The height of this book shelf is 3 feet.	This book costs ₹500.	My weekly average pocket allowance is ₹500.

1. Identify which of the following will come under the domain of Statistics? (1)
(a) A
(b) B
(c) C
(d) D

2.
Analyse the images given above and identify the type of variable (discrete/continuous) the above examples provide with reason. (1)

3. In order to know the liking and disliking of the listeners of the programs broadcast by the Himachal Akash Vani, the latter is keen to collect data. Which method of collecting data will be suitable for it? (1)
(a) Direct Personal Investigation
(c) Mailing (Questionnaire) Surveys
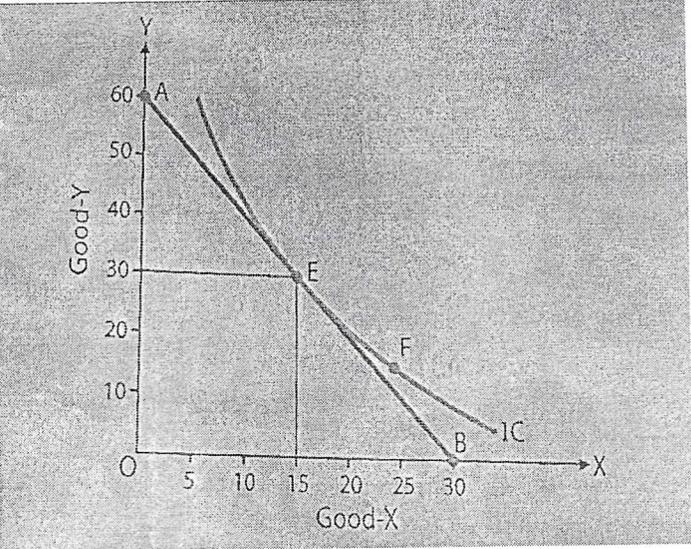(b) Indirect Oral Investigation

	(d) Enumerator's Method	
4.	From the set of statements given in column I and Column II, Choose the correct pair of statements:	(1)

Column I	Column II
A. Sample method	i) Process of investigation is time consuming
B. Census method	ii) Widely used in our day-to-day life
C. Systematic sampling	iii) Represent diverse characteristics of the population
D. Stratified sampling	iv) A mixture of both purposive sampling and random sampling

(a) A –(i)
(b) B –(ii)
(c) C – (iii)
(d) D – (iv)

5.	Observe the series given, 0-10, 10-15, 15-30, 30-50. Identity the type of series in the given example.	(1)

     (a) Exclusive and open ended
     (b) Exclusive and unequal
     (c) Inclusive and open ended
     (d) Inclusive and unequal

6.	The following table shows the marks of English secured by the students of class X of your school in their examination:	(1)

Marks	No. of students
0-10	20
10-20	24
20-30	40
30-40	36
40-50	20

The value of $\sum fd$ is equal to:

    (a) 120
    (b) 125
    (c) 130
    (d) 140

7.	State whether the given statement is true or false (with reason): Establishing a dairy for producing milk products for consumers which turns to be a method of earning wealth is an example of economic activity.	(1)

8.	 Stage IV of statistical study is known as (a) layering of data (c) classification of data (b) analysis of data (d) layout of data	(1)
9.	Read the following news report. Would you call this information as statistics data? Give reason in support of your answer. UP Board 10th result 2022 released a report, Girls have outperformed boys with pass percentage of 91.69%, while boys stand at 85.25%. An overall pass percentage of 88.18 per cent has been recorded.	(1)
10.	_____ gives information about secondary data used in a table. (a) Head note (b) Foot note (c) Source note (d) Title	(1)

11.	Read the following case study carefully and answer the question given below on the basis of the same:
	A pie chart is a type of graph that displays data in a circular graph. The pieces of the graph are proportional to the fraction of the whole in each category. In other words, each slice of the pie is relative to the size of that category in the group as a whole. The entire "pie" represents 100 per cent of a whole, while the pie "slices" represent portions of the whole. Pie charts give you a snapshot of how a group is broken down into smaller pieces. The following chart shows what New Yorkers throw in their trash cans. You could read that New Yorkers (perhaps surprisingly) throw a lot of recyclables into their trash, but a pie graph gives a clear picture of the large percentage of recyclables that find their way into the trash.
	State the type (with reason) of diagram will be the most suitable to present the following information, also provide a brief definition of the same.
	  (i) Percentage contribution of different sectors to gross domestic product during 2023-24.
	  (ii) Percentage contribution of different sectors to gross domestic product from 2016-17 to 2023-24.
		(3)

12.	Out of 1,000 medals given to participants, 400 were gold medals and 300 were bronze medals. The number of male participants was 400 out of which 150 won the gold medals. The number of females who won the silver medals was 200. Tabulate the given information.	(3)

13.	A candidate obtained the following percentages of marks in different subjects in the half yearly examination:						(4)

Subject	English	French	Hindi	German	Sanskrit
Percentage	46	67	72	58	53

It is agreed to give double weights to marks in English and French as compared to other subjects. Calculate weighted arithmetic mean.

14.	Construct a **frequency polygon without using histogram** for the following data:	(4)

Wages (in ₹)	0-10	10-20	20-30	30-40	40-50	50-60	60-70
No. of workers	10	18	35	30	20	12	8

OR

Draw the graph of interest on deposit for a year.

Deposits(in ₹))	10000	20000	30000	40000	50000
Interest(in ₹))	750	1500	2350	3300	4400

15.	Present the following data on the production of food grains in the form of : **sub divided bar diagram**	(4)

Year	Oil	Salt	Gram	Total
2003	30	20	10	60
2004	45	30	15	90

16.	Find the missing frequency if arithmetic mean of series is **38.5**	(6)

Class interval	10-20	20-30	30-40	40-50	50-60
frequency	4	6	12	?	10

17.	The following data relates to monthly tuition fees charged by various schools in a city. Draw **less than** and **more than** ogive using the following data.	(6)

Monthly tuition fee (Mid points)	1500	2500	3500	4500	5500	6500
No. of students	70	60	30	20	20	10

PART-B (MICRO ECONOMICS)

18.	Mr. X consumes two commodities X and Y whose prices are ₹ 4 and ₹ 2 per unit respectively. What will be the value of marginal rate of substitution if the consumer is in the state of equilibrium?	(1)

19.	Saksham is a consumer. His income falls from ₹20,000 per month to ₹15,000 per month. What will be the impact on price demand curve of an inferior good? (a) Shift to the right. (b) Shift to the left. (c) Upward movement along the curve. (d) Downward movement along the curve.	(1)

20.	On which of the following assumptions, the theory of consumer behaviour on cardinal utility approach is not based: (a) Consumer is rational (b) Limited money income of the consumer (c) Maximization of total satisfaction (d) Diminishing marginal utility of money	(1)

21.	Chhavi is interested in knowing about the level of unemployment in India. Which branch of economics she should study?	(1)
22.	On the basis of the above diagram, state the level of consumption at which point of satiety lies. (a) At 2nd unit of the commodity (b) At 3rd unit of the commodity (c) At 4th unit of the commodity (d) At 5th unit of the commodity	(1)
23.	In the context of rising prices, following statements are made by two people Udit: Prices in the economy are continuously rising. Shivam: The Government should take reasonable steps to control rising prices Identify the statements as Positive Statement and Normative Statement. (a) Udit: Positive; Shivam: Normative (b) Udit: Normative; Shivam: Positive (c) Both are Positive Statements (d) Both are Normative Statements	(1)
24.	Price elasticity of demand for flowers and toys are respectively -0.9 and -0.5. Demand for which one is more elastic and why?	(1)

Read the following information carefully which records production possibilities for two goods X and Y for a hypothetical economy and answer the questions 25-27 on the basis of the same:

COMBINATIONS	GOOD X(Units)	GOOD Y(Units)
A	0	30
B	1	28
C	2	24
D	3	18
E	4	10
F	5	0

25.	On the basis of the data given above, calculate the marginal opportunity cost between points E and F. (a) 2 (b) 2.5 (c) 5 (d) 10	(1)

26.	Identify the shape of PPC for the above data. (a) Downward sloping concave PPC (b) Downward sloping straight line PPC (c) Downward sloping convex PPC (d) None of these	(1)
27.	**Read the following statements carefully and choose the correct alternative among those given below:** Statement 1: Marginal opportunity cost refers to value of a factor in its next best (or second best) alternative use. Statement 2: Technological advancement shifts the PPC to the right. Alternatives: (a) Both the statements are true (b) Both the statements are false (c) Statement 1 is true and Statement 2 is false (d) Statement 2 is true and Statement 1 is false	(1)
28.	Complete the following table:	(3)

Units consumed	Total utility(TU)	Marginal utility(MU)
1	9	*9*
2	*16*	7
3	*22*	6
4	27	*5*
5	*29*	2
6	27	*-2*

29.	You run the only lemonade stand in Central Park. If people don't buy lemonade from you, their only other option is to buy orange juice from a nearby vendor. One day, you decide to raise the price of your lemonade from 100 per glass to 125 per glass. As a result, half of your usual customers decide to get orange juice instead of lemonade that day. What does this experience tell you about the demand for lemonade in Central Park? Explain any other factor affecting elasticity of demand.	(3)
30.	When price of a commodity falls by ₹ 2 per kg, its quantity demanded increases by 2.5 kg. Calculate the original and new demand if the price before change was ₹10 per unit and the shape of the demand curve of this good is rectangular (E=1) hyperbola.	(4)
31.	The magnitude 7.8 quake brought down whole apartment blocks in Turkish cities and piled more devastation on millions of Syrians displaced by years of war. The earthquake was the biggest recorded worldwide by the U.S. Geological Survey since a tremor in the remote South Atlantic in August 2021. The Economic Times-2021 Explain the impact of above situation in the context of production possibility curve.	(4)

32.	Mr. X was hungry, hence he decided to eat bananas, however, after eating 2 bananas, he suddenly realised that, now he is not enjoying eating any further unit. Hence, he decided to eat rest of the bananas later on. Identify the reason behind the above case. Also, state the underlying assumptions.	(4)
33.	 I)Identify the types of goods as represented in the pictures above. II)Explain the effect of rise in price of each good on demand curve (with diagram).	(6)
34.	 I. What does point E represent in the above diagram? Explain. II. What does point F signify in the above diagram? Explain the reaction of the consumer in the above situation.	(3+3)