MID-TERM EXAM: 2024-25 SUBJECT: ECONOMICS CLASS XI (13/09/2024)

Time: 3-hour

Total No of Questions:34
Total No of printed pages:6

M.M:80

General instructions:

1. This question paper contains two sections:

Section A - Introductory Microeconomics Section B - Statistics for Economics

- 2. All the questions in both the sections are compulsory. Marks are indicated against each question.
- 3. Question number 1 to 10 and 18 to 27 are Very Short-Answer Questions carrying 1 mark each.
- 4. Question number 11 & 12 and 28 & 29 are Short-Answer Questions carrying 3 marks each.
- 5. Question number 13 to 15 and 30 to 32 are also Short-Answer Questions carrying 4 marks each.
- 6. Question number 16 & 17 and 33 & 34 are Long Answer Questions carrying 6 marks each.

## **SECTION A: INTRODUCTORY MICROECONOMICS**

Q1 Resource allocation is considered efficient when	(1)
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- •a) increase in production of one is possible without reducing the production of the other.
- b) increase in production of one good is possible only if production of other good falls.
- c) production of both can be increased.
- d) production of both can be decreased.

Q2 Read the following statements - Assertion (A) and Reason (R). Choose the correct alternative from the options that follow.

alternative from the options that follow.

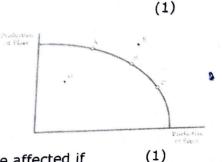
**Assertion (A):** Positive Economics refrains from economic value judgments. **Reason (R):** Positive statements can be verified as true or false by comparing with statistical data

- a) Both (A) and (R) are true and (R) is the correct explanation of (A).
- b) Both (A) and (R) are true and (R) is not the correct explanation of (A).
- c) (A) is true, but (R) is false.
- d) (A) is false, but (R) is true

Q3 Which of the following is a correct statement?

a) Point 'E' represents an attainable combination.

- b) Point 'D' represents economy producing less than its potential.
- c) Point 'A', 'B', 'C' represents unattainable combinations.
- d) PPC is upward sloping curve.



Q4 Consumer consumes two goods X and Y, how will Budget Line (BL) be affected if price of X falls, price of Y and income of household remains constant.

- a) Budget Line rotates inwards on the Y axis.
- b) Budget Line shifts out to the right.
- c) Budget Line remains unaffected.
- d) Budget Line rotates outwards on X axis.

Q5 If price of Good A rate of substitution at			B Rs 60/Unit, the consume e	r Marginai
a) 3 t	o) 75	c) 45	, d) 4	
Q6 Monotonic preferen	ices in an indifferen	ce curve anal	ysis means that:	(1)
b) Total utility de	creases as quantity creases as quantity	of goods with of goods with	h the consumer increases. th the consumer increases. h the consumer decreases. n.	
Q7 Read the following alternative from the op-		ion (A) and R	eason (R). Choose the correc	t (1)
versa.			mand for its substitute good for use.	alls and vice
a) Both (A) and (R) are b) Both (A) and (R) are c) (A) is true, but (R) i d) (A) is false, but (R)	e true and (R) is not s false.	correct expla the correct e	nation of (A). xplanation of (A).	
Q8 The table below rep	presents:			(1)
	P <sub>Y</sub> (Rs)	,	Q <sub>Y</sub> (Units)	
	20	a i	150	
	20		110	
a) Increase in Demand c) Change in Quantity	Demanded	,	b) Contraction of Demand d) Decrease in Demand	
Q9. Demand curve slop	oes downward becau	se of <u>X H/</u>	<u> </u>	(1)
Q10 The demand funct QDa =30-2P, QDb = 4	cions of three consun 0-3P, QDc = 50-4P.	ners present u Market deman	p in the market are d at price of Rs 7 will be:	(1)
		c)57	d)65	
Q11 Elaborate on the o	central problem of 'W	hat to produce	e' faced by an economy.	(3)
Q12 Using a well labell the Total Utility derive	ed graph explain how d from consuming an	v does the beh y good.	avior of Marginal Utility impact	(3)
Q13(a) Explain why is	P.P.C concave to orig	in?	(	2+2=4)
b) Illustrate on a suita the Government had in	bly labeled graph, the stroduced MGNREGA,	e impact on In an unemployr	dia's Production possibility front nent generation program.	ier when
Q14 A consumer consumit respectively. If consequal to 24 and that of	nsumer chooses a co	X and Y whosembination of g	prices are Rs 4 and Rs 5 per cods with marginal utility of X	(4)
to the consumer in Equ	ilibrium? If not, then	what should c	onsumer do to reach equilibriun	n.

Q15 Read the passage and answer the following questions.

(2+1+1=4)

An analysis by Care Edge Ratings shows that the demand for vehicles powered by traditional fuels is progressively shifting towards those that utilise alternative fuels. The share of petrol vehicle sales, as a percentage of total vehicle sales, has recorded a significant decline, decreasing from 86% in 2020 to 76% in 2023 while for diesel vehicles it has slightly decreased from 12% in 2020 to 11% in 2023. The sales volume of alternative fuel-driven vehicles recorded a growth of more than 400% in Calendar Year (CY) 2023 as compared to CY2020, though on a much smaller base.

At present, EVs offer the lowest lifetime cost, followed by CNG. Demand for EVs is booming, driven by government incentives, reducing battery costs, and rising fuel costs, especially petrol and diesel. India aims for 30% of all vehicle sales to be electric by 2030.

To encourage the growth of charging stations, the Indian government has launched several schemes to incentivize the development of alternative fuel infrastructure, such as subsidies and grants.

While EVs have a higher upfront cost, their lower fuel and maintenance expenses, coupled with government incentives, make them relatively more cost-competitive compared with petrol and diesel vehicles in the long run, especially for high-mileage drivers.

a) 'While EVs have a higher upfront cost, their lower fuel and maintenance expenses, make them relatively more cost-competitive compared with petrol and diesel vehicles in the long run, especially for high-mileage drivers'.

Illustrate using a well labelled diagram Impact on Demand for EV cars.

- b) State any two reasons that will make demand for EV vehicle elastic with respect to its own price.
- c) Does the demand of a commodity always rise when the price of other related good increases. Defend or Refute giving reason.

Q16 How is Budget set different from Budget line?

(2+4=6)

- b) Explain the determination of Consumer's Equilibrium with the help of Indifference curve analysis using ordinal approach.
- Q17 a) A consumer buys 18 units of a good at a price of Rs 9 per unit. The price elasticity (3+3=6)of demand for the good is (-)1. Calculate the number of units the consumer will buy at a price of Rs 10 per unit.
- b) When the price of a good falls from Rs 10 to Rs 8 per unit, its demand rises from 20 units to 24 units. What is the price elasticity of demand using Total Expenditure method? Also Illustrate the elasticity of demand on the graph.

## **SECTION B: STATISTICS FOR ECONOMICS**

Q18 _ statisti	cal survey.	are the non-sampling errors that can occur during a	(1)
Q19 Ce	nsus method is suitable for in	vestigation in which of the following situation:	(1)
a) b) c)	The size of population is large high degree of accuracy is not there are widely diverse items	required.	
		ate respondent, the best method for collection of data	(1)

- a) Indirect interview
- b) Personal interview
- c) Information from local sources

d) Mailed Questionnaire

Q21 Read the following statements carefully and choose the correct alternative from the following: (1)

Statement 1: Random sampling method is impartial and economical.

Statement 2: In Sampling method only limited number of items are investigated.

## 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.

## Q22 In an exclusive series:

(1)

- a) Both class limits are considered.
- , c) Both class limits are excluded.

- Ab) The upper limit is excluded.
- d) Lower limit is excluded

Q23 Identify the correct sequence of alternatives given in Column II by matching them with respective items in column I.

(1)

Column I	i) The values of variable skip from one integer to another.				
A Continuous variable					
B Spatial classification	ii) Variable can assume value in fraction.				
C Discrete variable	iii) Classification of Data according to geographical location.				
D Chronological classification	iv) Classification of Data according to time period.				

- (A)-(iv); (B)-(iii); (C)-(i); (D)-(ii)a)
- (A)-(ii); (B)-(iii); (C)-(i); (D)-(iv)· b)
  - (A)-(iii); (B) -(ii); (C) (iv); (D) (i) c)
  - (A)-(ii); (B)-(i); (C)-(ii); (D)-(iv)d)

Q24 The degree values of following expenditures of an average working class Family, for constructing a pie chart, would be

(1)

Items	Food	Clothing	Housing	Fuel	Electricity
Total Expenditure (%)	20	40	25	5	10

a)75, 120, 20, 60, 85

b)72, 120, 18, 54, d)74, 126, 24, 56, 80

·c)72,144, 90,18, 36

Q25 The sum of deviations of the items from the mean is:

(1)

, a) Zero

- b) Minimum
- c) Maximum
- d) One

Q26 Mean of 200 observations is found to be 60. If at the time of computation two items are wrongly taken as 97 and 46 instead of 89 and 84, find the corrected mean of the series.

(1)

. (a)59.50

(b)60.50

(c)59.85

(d)60.15

a)	modal		b) media	an	•c) me	ean	d) l	ooth (a) a	nd (b)	
Q2	28 Distir	guish Prin	nary Data	and Seco	ndary Da	ta	-, -	(-)	(-)	. (
Q2 Ou of	29 Out of ut of tot male a	of total nur al applican oplicants w	nber of 50 its,3100 w tho belong	000 peopl vere of the g to busine	e who appe e service ess class	olied for D	athara hi	icinaca ala	The	(i umber n.
b)		ate two ob e a frequer				nethod tak	king class	interval of	7 from th	(1+3=4) ne following
	28	17	15	22	29	21	23	27	18	12
	1	8	,3	10	5	20	16	12	8	
	3	36	27	18	9	2	4	6	32	31
	11	.9	7	1	5	37	-32	28	.26	.24
		Year 2020-21 2021-22	2		dro-Electri million KV 46 49		Thermal Electricity (in million KWTs) 64 71			
	2022-23 . 48				48 51	82				
,	Q32 Fror	n the follow	ing distrib			il .		Companie		(4)
H	Capital (in lakh) 0-10					Number of Companies 5				
10-20						12				_
20-30						15				_
r			30-40			22				
			40-50			14				
	50-60					4				
Q		lculate Arit g assumed			following d	ata by Sho	rt-cut met	hod and	(4	4+2=6)
			Marks	(X)			(	C.f		
Less than 10					5					
	Less than 20				12					
	Less than 30				24			``		
	-		Less tha			40				1
		-	Less tha			46				
	_		Less tha				5	0		1
	Less than oo									_

Q27 A shoe trader should consider the \_\_\_\_\_\_ size of shoes, while placing an order of shoes of various sizes.

b) In a firm 70 workers of the textile unit get a mean wage of Rs 300 while the remaining 30 workers of the non-textile unit get a mean wage of Rs 200. Find the mean wage distributed by the firm.

Q34 a) Calculate Median from the following data:

(4+2=6)

Age (in Years)	No. of Persons
0-10	8
10-20	30
20-30	40
30-40	12
40-50	10

b) Calculate Mode from the above series by Inspection method.