CATapult Courseware

Module 2 Answer Key

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ANSWER KEY CLASS EXERCISES – QUANTITATIVE ABILITY

CHAPTER QA 2.1

1-a-(4, 0), (3, 1), (2, 2), (1, 3), (0, 4) b-(9, 0), (6, 2), (3, 4), (0, 6) c-(2, 4), (0, 15) d-(9, 0), (6, 2), (3, 4), (0, 6)

2-a-101 b-11 c-Infinite d-0 3-a-5 solutions b-26 solutions

4-1 Rupee 5-a- x^2 - 7x + 14 = 0 b- x^2 - 9x + 64 = 0 c-8 x^2 - 5x + 1 = 0 d- x^2 - 5x + 512 = 0

Polynomial	Discriminant	Roots	Nature
	$(\Delta = b^2 - 4ac)$		of roots
$x^2 - 5x - 6$	49	6, -1	Real
			distinct
$6x^2 - x - 2$	49	$-\frac{1}{2}, \frac{2}{3}$	Real
		_ 2 , 3	distinct
$x^2 - 3$	12	$\sqrt{3}$, $-\sqrt{3}$	Real
		γ 3 ,- γ 3	distinct
$x^2 + 4x - 6$	40	_2 + \sqrt{10}	Real
		$\begin{vmatrix} -2 + \sqrt{10}, \\ -2 - \sqrt{10} \end{vmatrix}$	distinct
$x^2 + 4x + 4$	0	-2, 2	Single
			repetitive
$x^2 + 4$	-16	2i, -2i	Complex

Challengers

1-2 2-4 3-2 4-3 5-3

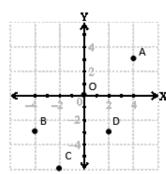


$$\begin{vmatrix} 10-x^{14}-x^{-10} & 11-1/4 & 12-0 & 13-3 & 14-2 & 15-4 & 16-1 & 17-a-7 \\ b-13 & c-x=6 & d-37 & e-\frac{6}{13} & 18-0, -1, -2, -3 & 19-8x^3 - 2x^2 - 5x - 1 = 0 \end{vmatrix}$$

Challengers

1-1²⁰¹⁶ + 1 - 1 = 1 2-a-1 and -1 b-y =
$$\frac{1}{2}$$
, i.e. x = $\frac{1}{4}$ c-y = 3 or -1, i.e. x = 27 or -1 3-a-m = -1 b-No c-1 4-4 5-1 6-2

CHAPTER QA 2.3



L- 2-a-5 units b-6 units c-5 units

d-
$$2\sqrt{10}$$
 units 3-(-1, -3) 4-(0, $-\frac{9}{2}$) 5- $\left(-2, -\frac{3}{2}\right)$ 6-(-20, -15)

7-
$$\frac{9}{2}$$
 units 8- $\frac{5}{2}$ 9-(-16, -12) 10-(19, 14) 11-(-23, 36)

12-a-y=7, 5, 3, 1, -1, -3, -5

b-refer to explanatory answer
$$c-2$$
 13-a-y = -3, -2.5, -2, -1.5, -1, -0.5, 0

b-refer to explanatory answer c+ 0.5
$$14-(1, -1)$$
 $15-a-m = \frac{1}{2}$ $b-m = -3$

c-m is not defined 16-refer to explanatory answer

17-a-Infinitely many such lines
$$b-y = -2x + 7$$
 $c-y = 2x - 3$ $d-y = 3x - 2$

e-Two possible lines
$$(y = \pm 2)$$
 f-y = -x - 4 $g - \frac{x}{3} + \frac{y}{2} = 1$ or $y = -\frac{2}{3}x + 2$
h-x = -2 i-y = $-\frac{1}{3}x + \frac{17}{3}$ 18-a-y = $-\frac{4}{7}x$ b-x = 3 c-y = 0 d-y = -x + 3

e-y = -2x 19-refer to explanatory answer 20-refer to explanatory answer

21-1-e, 2-h, 3-g, 4-a, 5-d, 6-f, 7-c, 8-b 22-2 23-6
$$24-\frac{8}{\sqrt{5}}$$

Challengers

CHAPTER QA 2.4

- 1 to 3- Refer to Explanatory Answers
- 4-a- Minimum value of 0 at $x = -\frac{3}{2}$

b-Minimum value of 2 at x = 3

- c- Maximum value of 5 at x = -2 d-Maximum value of 3 at x = 1

2-4

5-a-Minimum, $\left(-\frac{5}{2}, -\frac{49}{4}\right)$ b-Minimum, $\left(\frac{1}{2}, 0\right)$ c-Minimum, $\left(-1, 2\right)$ d-Maximum, $\left(-\frac{3}{2}, \frac{49}{4}\right)$

Challengers

- 1-3
- 3-2
- 4-1 5-3
- 6-Refer to Explanatory Answer

CHAPTER QA 2.5

1-1-15 2-15 3-150

10-2

- $4-6x^4 5$ 5-1.5
- 2-1-(0,∞) 2-(-1, 1) 3-1-even
- 2-odd 3-neither 4-odd
- 4-Refer to Explanatory Answer 5-it is not a well-defined function on R.
 - 8-Refer to Explanatory Answer

- 7-1-Onto
- 2-Into 3-Onto 4-Into 11-2 12-2
 - 13-2 14-4
- 15-a-4 b- -5, -2, 1, 4 c-Positive 16-Refer to Explanatory Answer
 - 3- -(3, 2) and (1, 0)

6-16

- 17-1-(1, 4) and (6, 4) 2-(4+ $\sqrt{2}$, $\sqrt{2}$) and (4, - $\sqrt{2}$, - $\sqrt{2}$) 4-(4, -2) 5-(3, -24) and $(\frac{3}{2}, \frac{63}{4})$ 6-there is no point of intersection 7-(-2, 6)

- $8 \left(\frac{1}{2}, \frac{35}{8}\right)$ 18-1-1 and -1 2-0 and 1
- 3-x = 1 and x = -1

Challengers

- 1-a-6 and 9
- b-5 and -1

d-Refer to Explanatory Answer

- 2-3
 - 3-1
- 4-4
- 5-3
- c-5 6-1

CHAPTER QA 2.6

- 1-Refer to Explanatory Answer
- 2-a- $(-\infty, 4)$ b-[6, ∞) c- $(-\infty, 2.5)$ d-(-4, -1] e-(-3, 11]

- 3-3 4-a-(-5, 5) b-(- ∞ , -3) \cup (7, ∞) c-[-24, 4] d-(-2.5, 0.5) \cup (1, 4)
- $e^{-(-\infty, \infty)}$ 5-a-(-4, 4) $b^{-(-\infty, -7]} \cup [7, \infty)$ $c^{-(-4, 8)}$ $d^{-(-6, 3)}$

5-1

- 10-2 11-1 12-3 13-two
- $e-(-\infty, \ -1) \ \cup \ (7/3, \ \infty) \qquad \qquad 6-a-(-\ 1, \ 2) \qquad \qquad b-(-\infty, \ -1) \ \cup \ (2, \ \infty) \qquad \qquad 7-3 \qquad \qquad 8-1$

9-3

- Challengers
- 1-4
- 2-3
- 3-2
- 4-2
- 6-4
- 7-4



1-a-550 b-54 c-2⁶³ d-107200

3-a-1 b-1 c-1 4-S = 2 $5-n-\frac{1}{3}\left(1-\frac{1}{4}n\right)$ 6-a-193

b-89 c-36

8-a-210 - 55 = 155 b-1240 - 55 = 1185 c-285 9-S = 1/3 10-10.After 9 minutes

11-a-8 b-15

Sequences, Series and Progressions: Examples

 $1-a-T_5 = 2T_4 + 3 = 77$ $b-T_2 = 2T_1 + 3 => T_1 = 5$ c-6105 2-0 3-4 4-3

5-2 6-1 $7 - \frac{99}{100}$ 8-9 9-4 10-1 11-4 12-3 13-1 14- $\frac{1}{2}$

15-3 16-1 17-3

Challengers

1-1

2-4 3-1 4-3 5-3

ANSWER KEY CLASS EXERCISES - DI-LR

CHAPTER DI 2.1

1-a-1	b-4	c-2	d-3	2-a-3	b-2	3-a-2	b-3	4-a-2	b-4	
5-a-1	b-2	6-4	7-3	8-2	9-4	10-4	11-1	12-1	13-2	
14-3	15-1	16-4	17-3	18-2	19-3	20-i	21-v	22-iv	23-i	
Challen	gers									
1-4	2-2	3-1	4-2							

CHAPTER DI 2.2

1-250	2-1610	3-215	4-1	5-2	6-3	7-2	8-4	9-1	10-4
11-2	12-3	13-2	14-4	15-1	16-2				
Challe	ngers								
1-4	2-2	3-3	4-4						

CHAPTER DI 2.3

1-2	2-1	3-4	4-3	5-4	6-2	7-3	8-1	9-2	10-5	
11-1	12-3	13-3	14-3	15-4	16-1	17-2	18-2	19-1	20-1	
21-3	22-4									
Challen	gers									
1-1	2-2	3-3	4-4	5-4						

CHAPTER LR 2.1

1-The two are cousir	ns 2-La	aurie help:	s his fath	er Jerem	y in the	Fitness A	cademy
3-They are siblings	4-i-A is G's r	nephew	ii-C	is F's pa	iternal au	nt	
iii-C and G are sister	rs in law						
5-Engineer = O	6-2 children	7-M	aternal au	ınt 8-M	1 must be	e the law	yer
9-2 10-3	11-a-IRSDIVE	b-EF	NPDSBU	c-	POLKA	d-	YEMEN
e-PURPLE f-PANA	MA g-V	AQBER	h-U	RUGB	i-1	291331	
j-41196100225 k-1	15 l-71	995457					
12-a-EERZAH	b-NBIFTI	c-JAB	d-TUF	SNJOJ	e-H	-IQRKQK	
f-RDHNYVGL g-NRGS	SFM h-4	51289	i-414	4811961	6	j-108	
13-4 14-3 15	5-3 16-4	17-1	18-3	19-3	20-4	21-3	22-2
23-3- 24-4 25	5-3						
Challengers							
1-2 2-4 3	3-2 4-3	5-4	6-1	7-4			



ANSWER KEY CLASS EXERCISES - Verbal Ability

CHAPTER VA 2.1

				5-4						
11-3	12-3	13-1	14-4	15-1	16-4	17-3	18-4	19-4	20-2	
21-4	22-3	23-2	24-3	25-3	26-4	27-4	28-2			

CHAPTER VA 2.2

1- to 10	O-Refer to	the Explan	atory Ansv	vers						
11-2	12-2	13-2	14-3	15-3	16-4	17-4	18-1	19-2	20-3	
21-4	22-4	23-1	24-2	25-1	26-3	27-3	28-1	29-2	30-2	
31-1	32-2	33-1	34-4	35-4	36-1	37-3	38-3	39-2	40-1	

CHAPTER VA 2.3

1-2	2-3 12-4	3-2	4-4	5-4	6-4	7-1	8-3	9-4	10-4	
11-3	12-4	13-3	14-3	15-2	16-3	17-4	18-1	19-2	20-2	
21-2										

CHAPTER VA 2.4

1-2	2-1	3-2	4-3	5-4	6-1	7-2	8-4	9-1	10-3	
11-2	12-4	13-2	14-4	15-4	16-4	17-1	18-1	19-1	20-4	
21-1	22-3	23-3	24-1	25-3	26-2	27-2	28-4	29-3	30-3	
31-2	32-3	33-1	34-2							

CHAPTER VA 2.5

				5-2						
				15-1						
21-3	22-2	23-1	24-4	25-4	26-2	27-3	28-1	29-2	30-4	

T-T	2-1	3-2	4-2	5-1	6-4	7-3	8-1	9-4	10-3	
11-2	12-1	13-4	14-1	15-3	16-4	17-1	18-2	19-3	20-3	
21-1	22-1	23-4	24-2	25-3						

ANSWER KEY PRACTICE EXERCISES – QUANTITATIVE ABILITY

CHAPTER QA 2.1

			I	Practice	Exercise	1			
1.	A- 4 solutions	1B-	- 3 solutions	1C-	No Solution	1D-	- 8 Solutio	ons	
2-4	3-3	4-3	5-1	6-4	7-3	8-4	9-4	10-1	11-3
12-8	13-2	14-1	15-2	16-3	17-4	18-3	19-3	20-390	
				Practice	Exercise	2			
1.	A- 19 Solution	s 1B	- 21 Solution	ns 1C-	9 Solutions	1D-	- 13 Solut	ions 1E-	12 Solutions
2	-10 Solutions								
3-4	4-1	5-3	6-2	7-3	8-2	9-4	10-3	11-2	12-3
13-2	14-3	15-2	16-2	17-1	18-1	19-2	20-0		

CHAPTER QA 2.2

					•					
				Practio	e Exercis	e 1				
1-2	2-2	3-3	4-4	5-47	6-56800					
7-i) b	ii) e	iii) f	iv) d	v) a	vi) c					
8-a) -7	b)7/2	c)5/2	d)-5/14	e)29/4	ļ.					
9-3	10-3	11-3	12-4	13-2	14-4	15-1	16-2	17-3	18-50	
19-2	20-0									
				Practio	e Exercis	e 2				
1. Roots a	are 1, –1,	-3, 4 and	$\sqrt{2}$.							
2-3	3-1	4-1	5-4	6-4	7-4	8-3	9-2	10-4	11-1	
12-1	13-1	14-4	15-2	16-12	17-0	18-51	19-1	20-296		

	Practice Exercise											
1. a)	4x + 7y =	0	b) 7x -	4y = 0	c)	4x + 7y	= 15 d) 7x	x - 4y = 10				
2. 1 -	h		2 - f		3 -	- j	4 - e	and j				
5 -	a and h		6 – i		7 -	- d	8 – b	and g				
9 -	f and c		10 - f ar	nd c								
3-2	4-3	5-1	6-4	7-3	8-1	9-1	10-3					
11-3	12-a) Ce	ntre = (-2,	-3), Radio	us = 3	b) Cer	tre = (-4)	, 1), Radius =	9				
13-3	14-2	15-4	16-4	17-14	18-4	19-1	20-3					



CHAPTER QA 2.4

Practice Exercise

- 1. a) $-7 \le x \le 1$
 - b) For all values of x.
- 2. a) minima at $x = -\frac{5}{2}$ and the minimum value is -59.
 - b) maxima at x = 4 and maximum value is 46.
 - c) maxima at $x = \frac{11}{2}$ and has maximum value of $\frac{49}{4}$.
 - d) minima at $x = -\frac{7}{2}$ and the minimum value is $-\frac{37}{4}$.
 - e) Therefore, maximum value of y is $\frac{17}{3}$.
 - f) Minima at x = -4 or -6 and minimum value of y is 2.
 - g) Minima at x = -4/3 and minimum value is $-\frac{1}{3}$.
- 3-3 4-1 5-4 6-2 7-1 8-2 9-6
- 10. a) 43 points
 - b) 34 points
 - c) 81 points
- 11-1 12-1 13-1 14-3 15-1 16-1 17-4 18-2 19-4 20-1

CHAPTER QA 2.5

	Practice Exercise 1										
1-2	2-3	3-3	4-4	5-18	6-511	7-1	8-2	9-4	10-2		
11-1	12-2	13-2	14-4	15-2	16-2	17-4	18-2	19-2	20-3		
				Practio	e Exercis	e 2					
1-3	2-2	3-2	4-4	5-3	6-4525	7-3	8-4	9-2	10-4		
11-2	12-1	13-3	14-1	15-3	16-2	17-2	18-4	19-2	20-3		

CHAPTER QA 2.6

	Practice Exercise											
1-2	2-2	3-1	4-4	5-3	6-1	7-3	8-3	9-3	10-4			
11-1	12-2	13-3	14-2	15-1	16-4	17-3	18-3	19-2	20-4			

				Practice	e Exercis	se 1				
1-2	2-3	3-1	4-4	5.	a) 25 b)	$d = \frac{5}{6} \text{ ar}$	nd a = -10	0 6-2	7-2	
8-1	9-1	10-2	11-1	12-3	13-3	14-3	15-4	16-177	17-175	
18-3	19-2	20-3								
				Practice	e Exercis	se 2				
1-166, 6	550	2-2451	3-270	4-2	5-1	6-3	7-3	8-3	9-2	
10-2	11-1	12-3	13-1	14-1	15-3	16-2	17-4	18-1	19-8	
20-25										



ANSWER KEY PRACTICE EXERCISES DATA INTERPRETATION & LOGICAL REASONING

CHAPTER DI 2.1

Practice Exercise											
1-1	2-4	3-1	4-2	5-4	6-2	7-3	8-1	9-3	10-2		
11-3	12-3	13-16	14-4	15-3	16-3						

CHAPTER DI 2.3

				Practice	e Exerci	ise 1			
1-2	2-4	3-2	4-3	5-2	6-0	7-2015	8-2	9-1	10-2
11-3	12-2	13-2	14-1	15-5	16-2				
				Practice	e Exerci	ise 2			
1-3	2-4	3-2	4-3	5-1	6-1	7-3	8-1800	9-8	10-81
11-2600		12-600	13-600						

CHAPTER LR 2.1

	Practice Exercise 1												
1-6	2-2	3-1	4-1	5-3	6-2	7-1	8-4	9-2	10-2				
11-4	12-1	13-4	14-2	15-1	16-4								

17-either the nephew or the niece of John

18- a) DRAVID: WREZIW:: **KALLIS**: HROOZP (the word is reversed and then reverse-coded)
b) POTTER: 111277229:: WEASLEY: **42226815222** (reverse position of letters in the alphabet)

c) INCEPTION: KLECRRKMP : : TITANIC : VGVYPGE (alternate +2, -2, pattern)

d) BACK: 66:: FACE: 90 (Product of the positions of letters)

19-2 20-2

CHAPTER LR 2.2

	Practice Exercise 1											
1-1	2-3	3-4	4-2	5-1	6-3	7-1	8-2	9-1	10-3			
11-4	12-2	13-2	14-1	15-4	16-3							
				Practice	e Exercis	e 2						
1-4	2-1	3-3	4-2	5-0	6-3	7-4	8-1	9-2	10-3			
11-2	12-4	13-2	14-3	15-1	16-4							

ANSWER KEY PRACTICE EXERCISES - VERBAL ABILITY

				Dractic	e Exercis	·			
1 , ,	0.0	0.4	4 4			_	0.0	0.4	40.0
1-2	2-3	3-1	4-4	5-1	6-3	7-4	8-2	9-1	10-2
11-2	12-2	13-4	14-4	15-3	16-2	17-1	18-3	19-1	20-1
21-4	22-3	23-1	24-3	25-2					
				Practic	e Exercis	se 2			
1-3	2-1	3-3	4-2	5-3	6-4	7-3	8-1	9-2	10-2
11-3	12-2	13-2	14-3	15-3	16-4	17-1	18-4	19-4	20-4
21-3	22-3	23-4	24-1						
				Practic	e Exercis	se 3			
1-1	2-2	3-3	4-3	5-2	6-2	7-3	8-1	9-3	10-2
11-1	12-4	13-3	14-1	15-1	16-2	17-2	18-1	19-2	20-4
21-4	22-1	23-2	24-3	25-1					
				Practic	e Exercis	se 4			
1-2	2-4	3-4	4-1	5-4	6-4	7-2	8-1	9-4	10-2
11-3	12-3	13-1	14-2	15-3	16-3	17-2	18-3	19-1	20-3
21-3	22-4	23-1	24-2						
				Practic	e Exercis	se 5			
1-1	2-1	3-4	4-1	5-1	6-4	7-3	8-1	9-1	10-2
11-1	12-4	13-2	14-2	15-4	16-3	17-2	18-1	19-1	20-2



CHAPTER VA 2.2

Practice Exercise 1

Table 1: I - c, II - b, III - d, IV - a Table 2: I – b, II – c, III – d, IV – a Table 3: I – b, II – a, III – d, IV – c Table 4: I – a, II – d, III – c, IV – b Table 5: I – d, II – c, III – b, IV – a

Cross word

Across Words:

3. Aggregate 8. Naive

10. Novel 11. Invalid 13. Lucid 16. Concise 17.Refuge

18. Exacting 21.Relic 22. Censure 23.Aspire 24.Superficial

28.Peripheral 29.Shield

Down Words: 1. Jam 2.Din 4.Assess 5.Desiccate 6.Savvy 7.Confined 9.Bolster 12.Monotony 13.Linger 14.Handicap 15.Intimate

19.Awe 20.Mediate 25.Epic 26. Win 27.Waver

Practice Exercise 2

(Refer to the explanation for answers to the word search puzzle)

1-Principal 2-Poring 3-Pedal 4-Loathe 5-Lie 6-Further 7-Hoard 8-Uninterested

9-Expected 10-Adverse

Table 1: I – b, II – c, III – d, IV – a, V – e Table 2: I – e, II – d, III – c, IV – b, V – a

CHAPTER VA 2.3

1-3	2-3				e Exercis	ет			
		3-3	4-1	5-1	6-4	7-2	8-1	9-1	10-2
11-3	12-1	13-3	14-1	15-3	16-3	17-4	18-1	19-1	20-1
				Practice	e Exercis	se 2			
1-4	2-1	3-2	4-3	5-1	6-3	7-4	8-4	9-1	10-2
11-3	12-2	13-1	14-4	15-4	16-2	17-1	18-4	19-3	20-4
21-3	22-2	23-3	24-4	25-2	26-1				
				Practice	e Exercis	se 3			
1-3	2-3	3-2	4-3	5-4	6-3	7-1	8-2	9-3	10-4
11-1	12-2	13-4	14-3	15-4	16-2	17-4	18-2	19-2	20-2
21-4	22-4	23-4							
				Practice	e Exercis	se 4			
1-3	2-1	3-3	4-4	5-4	6-2	7-4	8-4	9-4	10-2
11-3	12-4	13-1	14-2	15-1	16-3	17-1	18-2	19-1	20-1
21-3	22-1	23-3							
_				Practice	e Exercis	se 5			
1-1	2-4	3-3	4-4	5-3	6-3	7-2	8-3	9-2	10-4
11-3	12-4	13-2	14-4	15-3	16-4	17-3	18-2		

	Practice Exercise 1											
1-2	2-2	3-3	4-2	5-3	6-4	7-2	8-1	9-4	10-3			
11-2	12-2	13-4	14-1	15-4	16-2	17-1	18-4	19-4	20-1			
21-2	22-4	23-1	24-1	25-4								
				Practice	e Exercis	e 2						
1-1	2-2	3-3	4-1	5-4	6-4	7-1	8-4	9-2	10-4			
11-1	12-3	13-3	14-3	15-2	16-1	17-1	18-2	19-3	20-2			
21-1	22-3	23-3	24-3	25-4	26-4							



CHAPTER VA 2.5

Practice Exercise 1											
1-2	2-2	3-3	4-1	5-4	6-4	7-3	8-1	9-4	10-2		
11-1	12-4	13-2	14-3	15-1	16-3	17-2	18-4	19-1	20-3		
21-1	22-1	23-4	24-3	25-1	26-4	27-3	28-2	29-4	30-3		
Practice Exercise 2											
				Practice	e Exercis	e 2					
1-3	2-3	3-1	4-3	Practice 5-4	E Exercis	e 2 7-2	8-2	9-1	10-4		
1-3 11-3	2-3 12-3	3-1 13-3	4-3 14-4				8-2 18-1	9-1 19-2	10-4 20-4		
	_	-	_	5-4	6-4	7-2	_		-		

Practice Exercise 1											
1-3	2-4	3-4	4-1	5-2	6-1	7-4	8-3	9-2	10-4		
11-2	12-3	13-3	14-3	15-2	16-2	17-1	18-3	19-1	20-1		
21-2	22-4	23-2	24-3	25-2	26-1						
				Practice	e Exercis	se 2					
1-1	2-4	3-1	4-3	5-4	6-3	7-4	8-3	9-1	10-4		
11-2	12-4	13-3	14-1	15-1	16-1	17-3	18-4	19-1	20-2		
21-4	22-2	23-2	24-3	25-4	26-1	27-3	28-4				
				Practice	e Exercis	se 3					
1-4	2-3	3-1	4-3	5-2	6-4	7-1	8-4	9-2	10-4		
11-1	12-3	13-2	14-1	15-2	16-1	17-2	18-4	19-1	20-2		
21-4	22-4	23-2	24-3	25-3							
				Practice	e Exercis	se 4					
1-2	2-3	3-1	4-4	5-1	6-3	7-2	8-4	9-2	10-4		
11-4	12-1	13-4	14-3	15-3	16-1	17-1	18-4	19-3	20-3		
21-4	22-4	23-1	24-2	25-2	26-2	27-4	28-2	29-3			