

## FINAL KEY FOR ANFR062023 – CIVIL ENGINEERING

A SET		B SET	C SET	D SET
Question No.	Key	Question No.	Question No.	Question No.
1.	a	99.	47.	121.
2.	b	100.	48.	122.
3.	a	101.	49.	123.
4.	d	1.	96.	47.
5.	a	2.	97.	48.
6.	a	3.	98.	49.
7.	a	4.	99.	50.
8.	b	5.	100.	51.
9.	b	102.	148.	171.
10.	a	103.	149.	172.
11.	c	104.	150.	173.
12.	b	105.	151.	174.
13.	c	106.	152.	175.
14.	b	6.	1.	98.
15.	b	7.	2.	99.
16.	c	8.	3.	100.
17.	b	9.	4.	101.
18.	b	107.	50.	24.
19.	a	108.	51.	25.
20.	c	109.	52.	26.
21.	a	110.	53.	27.
22.	c	10.	101.	147.
23.	d	11.	102.	148.
24.	a	12.	103.	149.
25.	c	13.	104.	150.

*2/1/23*

*8 2 1 1*

*AS*

## FINAL KEY FOR ANFR062023 – CIVIL ENGINEERING

A SET		B SET	C SET	D SET
Question No.	Key	Question No.	Question No.	Question No.
26.	d	111.	153.	75.
27.	b	112.	154.	76.
28.	b	113.	155.	77.
29.	d	114.	156.	78.
30.	a	14.	5.	1.
31.	c	15.	6.	2.
32.	d	16.	7.	3.
33.	d	17.	8.	4.
34.	a	115.	54.	124.
35.	d	116.	55.	125.
36.	c	117.	56.	126.
37.	b	118.	57.	127.
38.	d	18.	105.	52.
39.	c	19.	106.	53.
40.	b	20.	107.	54.
41.	d	21.	108.	55.
42.	a	119.	157.	176.
43.	c	120.	158.	177.
44.	d	121.	159.	178.
45.	b	122.	160.	179.
46.	a	22.	9.	102.
47.	c	23.	10.	103.
48.	b	24.	11.	104.
49.	b	25.	12.	105.
50.	d	123.	58.	28.

*Handwritten signature/initials*

*Handwritten signature/initials*

*Handwritten signature/initials*

## FINAL KEY FOR ANFR062023 – CIVIL ENGINEERING

A SET		B SET	C SET	D SET
Question No.	Key	Question No.	Question No.	Question No.
51.	d	124.	59.	29.
52.	c	125.	60.	30.
53.	d	126.	61.	31.
54.	a	26.	109.	151.
55.	a	27.	110.	152.
56.	d	28.	111.	153.
57.	d	127.	161.	79.
58.	d	128.	162.	80.
59.	b	129.	163.	81.
60.	b	130.	164.	82.
61.	a	29.	13.	5.
62.	d	30.	14.	6.
63.	c	31.	15.	7.
64.	a	131.	66.	132.
65.	a	132.	67.	133.
66.	b	133.	68.	134.
67.	b	134.	69.	135.
68.	b	32.	112.	56.
69.	a	33.	113.	57.
70.	a	34.	114.	58.
71.	b	35.	115.	59.
72.	c	135.	165.	180.
73.	c	136.	166.	181.
74.	c	137.	167.	182.
75.	b	138.	168.	183.

*2/10/23*

*8 2 1 =*

*AS*

## FINAL KEY FOR ANFR062023 – CIVIL ENGINEERING

A SET		B SET	C SET	D SET
Question No.	Key	Question No.	Question No.	Question No.
76.	b	36.	16.	106.
77.	b	37.	17.	107.
78.	b	38.	18.	108.
79.	a	39.	19.	109.
80.	d	139.	62.	32.
81.	b	140.	63.	33.
82.	c	141.	64.	34.
83.	a	142.	65.	35.
84.	b	40.	116.	154.
85.	a	41.	117.	155.
86.	b	42.	118.	156.
87.	b	43.	119.	157.
88.	a	143.	169.	83.
89.	c	144.	170.	84.
90.	c	145.	171.	85.
91.	a	146.	172.	86.
92.	b	44.	20.	8.
93.	b	45.	21.	9.
94.	a	46.	22.	10.
95.	c	47.	23.	11.
96.	b	147.	70.	128.
97.	b	148.	71.	129.
98.	c	149.	72.	130.
99.	d	150.	73.	131.
100.	a	48.	120.	64.

2/1/23

8 2 1 1

# FINAL KEY FOR ANFR062023 – CIVIL ENGINEERING

A SET		B SET	C SET	D SET
Question No.	Key	Question No.	Question No.	Question No.
101.	a	49.	121.	65.
102.	b	50.	122.	66.
103.	c	151.	173.	184.
104.	a	152.	174.	185.
105.	c	153.	175.	186.
106.	a	154.	176.	187.
107.	d	155.	177.	188.
108.	c	51.	24.	110.
109.	c	52.	25.	111.
110.	c	53.	26.	112.
111.	c	156.	74.	36.
112.	a	157.	75.	37.
113.	c	158.	76.	38.
114.	b	54.	127.	158.
115.	a	55.	128.	159.
116.	b	56.	129.	160.
117.	a	57.	130.	161.
118.	c	159.	178.	87.
119.	c	160.	179.	88.
120.	b	161.	180.	89.
121.	b	58.	27.	12.
122.	c	59.	28.	13.
123.	a	60.	29.	14.
124.	b	61.	30.	15.
125.	a	162.	77.	136.

*2/10/23*

*0 - 1 =*

*AD*

## FINAL KEY FOR ANFR062023 – CIVIL ENGINEERING

A SET		B SET	C SET	D SET
Question No.	Key	Question No.	Question No.	Question No.
126.	d	163.	78.	137.
127.	c	164.	79.	138.
128.	b	62.	123.	60.
129.	c	63.	124.	61.
130.	a	64.	125.	62.
131.	c	65.	126.	63.
132.	c	165.	181.	189.
133.	d	166.	182.	190.
134.	b	167.	183.	191.
135.	c	168.	184.	192.
136.	d	66.	31.	113.
137.	b	67.	32.	114.
138.	c	68.	33.	115.
139.	b	69.	34.	116.
140.	d	169.	80.	39.
141.	c	170.	81.	40.
142.	c	171.	82.	41.
143.	a	172.	83.	42.
144.	c	173.	84.	43.
145.	d	70.	131.	162.
146.	d	71.	132.	163.
147.	a	72.	133.	164.
148.	d	73.	134.	165.
149.	d	174.	185.	90.
150.	c	175.	186.	91.

*2/10/23*

*6 2 1 1*



## FINAL KEY FOR ANFR062023 – CIVIL ENGINEERING

A SET		B SET	C SET	D SET
Question No.	Key	Question No.	Question No.	Question No.
151.	d	176.	187.	92.
152.	c	177.	188.	93.
153.	a	74.	35.	16.
154.	d	75.	36.	17.
155.	a	76.	37.	18.
156.	c	77.	38.	19.
157.	a	178.	85.	139.
158.	d	179.	86.	140.
159.	c	180.	87.	141.
160.	d	181.	88.	142.
161.	c	78.	135.	67.
162.	d	79.	136.	68.
163.	b	80.	137.	69.
164.	a	81.	138.	70.
165.	b	182.	189.	197.
166.	d	183.	190.	198.
167.	a	184.	191.	199.
168.	c	185.	192.	200.
169.	a	82.	39.	117.
170.	c	83.	40.	118.
171.	d	84.	41.	119.
172.	b	85.	42.	120.
173.	b	186.	89.	44.
174.	a	187.	90.	45.
175.	a	188.	91.	46.

*Ans*

*→*

*AB*

## FINAL KEY FOR ANFR062023 – CIVIL ENGINEERING

A SET		B SET	C SET	D SET
Question No.	Key	Question No.	Question No.	Question No.
176.	a	86.	139.	166.
177.	c	87.	140.	167.
178.	a	88.	141.	168.
179.	b	89.	142.	169.
180.	c	90.	143.	170.
181.	a	189.	197.	193.
182.	a	190.	198.	194.
183.	b	191.	199.	195.
184.	c	192.	200.	196.
185.	d	91.	43.	20.
186.	a	92.	44.	21.
187.	a	93.	45.	22.
188.	b	94.	46.	23.
189.	c	197.	193.	94.
190.	d	198.	194.	95.
191.	d	199.	195.	96.
192.	a	200.	196.	97.
193.	b	95.	144.	71.
194.	b	96.	145.	72.
195.	c	97.	146.	73.
196.	a	98.	147.	74.
197.	d	193.	92.	143.
198.	d	194.	93.	144.
199.	b	195.	94.	145.
200.	b	196.	95.	146.

*2/1/23*

*8 2 1 4*

*APB*