

Panjab University, Chandigarh

Ph.D. - 2023

ANSWERS / KEY

Subject: Ancient Indian History & Archeology(Ph.D)

1	2	3	4	5	6	7	8	9	10
C	D	D	B	D	D	D	C	C	D
11	12	13	14	15	16	17	18	19	20
C	D	D	D	C	B	B	B	C	A
21	22	23	24	25	26	27	28	29	30
D	B	D	C	B	C	B	D	B	B
31	32	33	34	35	36	37	38	39	40
C	D	D	B	C	C	B	C	C	B
41	42	43	44	45	46	47	48	49	50
B	D	C	A	C	C	A	D	A	C

Note: An 'X' (if any) in the key indicates that either the question is ambiguous or it has printing mistake. All candidates will be given credit for this question

Panjab University, Chandigarh

Ph.D. - 2023

ANSWERS / KEY

Subject: Economics(Ph.D.)

1	2	3	4	5	6	7	8	9	10
B	A	D	D	D	D	C	B	A	B
11	12	13	14	15	16	17	18	19	20
C	D	D	A	D	B	A	B	A	A
21	22	23	24	25	26	27	28	29	30
B	C	D	A	B	A	B	A	D	B
31	32	33	34	35	36	37	38	39	40
X	A	A	B	D	C	A	C	C	A
41	42	43	44	45	46	47	48	49	50
D	D	C	A	C	D	B	A	B	C

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Panjab University, Chandigarh

Ph.D. - 2023

ANSWERS / KEY

Subject: History(Ph.D.)

1	2	3	4	5	6	7	8	9	10
D	A	C	B	C	D	B	A	B	D
11	12	13	14	15	16	17	18	19	20
D	C	D	B	C	C	D	D	C	D
21	22	23	24	25	26	27	28	29	30
A	A	D	A	A	C	C	B	A	B
31	32	33	34	35	36	37	38	39	40
A	A	B	A	C	D	C	B	B	A
41	42	43	44	45	46	47	48	49	50
D	C	B	D	B	C	X	X	C	C

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Panjab University, Chandigarh

Ph.D. - 2023

ANSWERS / KEY

Subject: Political Science(Ph.D.)

1	2	3	4	5	6	7	8	9	10
B	D	C	D	D	B	D	C	X	B
11	12	13	14	15	16	17	18	19	20
C	C	D	D	D	B	B	A	B	D
21	22	23	24	25	26	27	28	29	30
D	C	C	D	C	A	D	A	B	D
31	32	33	34	35	36	37	38	39	40
D	C	B	D	B	C	C	A	D	B
41	42	43	44	45	46	47	48	49	50
X	D	C	C	D	C	B	C	D	C

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Panjab University, Chandigarh

Ph.D. - 2023

ANSWERS / KEY

Subject: Psychology(Ph.D.)

1	2	3	4	5	6	7	8	9	10
B	D	A	D	C	B	C	A	A	B
11	12	13	14	15	16	17	18	19	20
B	D	B	D	C	B	D	A	A	C
21	22	23	24	25	26	27	28	29	30
B	B	C	A	C	D	C	C	B	B
31	32	33	34	35	36	37	38	39	40
C	B	D	C	B	D	B	C	D	D
41	42	43	44	45	46	47	48	49	50
D	C	D	B	C	A	B	D	B	A

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Panjab University, Chandigarh
Ph.D. - 2023
ANSWERS / KEY

Subject: Public Administration(Ph.D.)

1	2	3	4	5	6	7	8	9	10
B	A	C	D	B	C	C	D	A	D
11	12	13	14	15	16	17	18	19	20
C	C	B	D	C	A	B	D	B	D
21	22	23	24	25	26	27	28	29	30
A	C	A	D	B	B	D	C	X	A
31	32	33	34	35	36	37	38	39	40
C	C	A	B	C	C	X	D	D	A
41	42	43	44	45	46	47	48	49	50
D	B	A	C	B	C	D	B	B	A

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Panjab University, Chandigarh

Ph.D. - 2023

ANSWERS / KEY

Subject: Sikh Studies(Ph.D.)

1	2	3	4	5	6	7	8	9	10
B	B	A	A	A	B	A	D	D	A
11	12	13	14	15	16	17	18	19	20
B	D	C	D	D	A	B	B	C	C
21	22	23	24	25	26	27	28	29	30
A	C	A	A	C	D	C	D	B	B
31	32	33	34	35	36	37	38	39	40
C	A	A	A	A	D	B	A	C	A
41	42	43	44	45	46	47	48	49	50
A	A	D	A	D	D	C	C	D	D

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Panjab University, Chandigarh

Ph.D. - 2023

ANSWERS / KEY

Subject: Anthropology (Ph.D.)

1	2	3	4	5	6	7	8	9	10
B	B	A	D	D	B	B	A	A	A
11	12	13	14	15	16	17	18	19	20
B	D	C	B	A	B	B	A	A	C
21	22	23	24	25	26	27	28	29	30
B	A	C	B	B	C	A	C	A	B
31	32	33	34	35	36	37	38	39	40
D	D	C	A	C	D	C	D	A	A
41	42	43	44	45	46	47	48	49	50
D	A	A	C	C	C	C	C	B	C

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Panjab University, Chandigarh

Ph.D. - 2023

ANSWERS / KEY

Subject: Botany(Ph.D.)

1	2	3	4	5	6	7	8	9	10
A	A	C	D	D	C	C	X	X	D
11	12	13	14	15	16	17	18	19	20
B	A	D	D	B	A	C	C	B	A
21	22	23	24	25	26	27	28	29	30
A	B	C	D	B	A	D	D	C	C
31	32	33	34	35	36	37	38	39	40
D	B	B	D	C	B	B	D	C	B
41	42	43	44	45	46	47	48	49	50
B	D	C	C	A	D	D	A	D	D

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Panjab University, Chandigarh

Ph.D. - 2023

ANSWERS / KEY

Subject: Bio-Physics(Ph.D.)

1	2	3	4	5	6	7	8	9	10
D	A	A	B	D	B	D	D	D	B
11	12	13	14	15	16	17	18	19	20
C	A	D	C	C	B	D	B	A	D
21	22	23	24	25	26	27	28	29	30
C	C	A	B	B	B	B	A	C	B
31	32	33	34	35	36	37	38	39	40
B	C	C	A	A	C	A	D	C	A
41	42	43	44	45	46	47	48	49	50
A	B	A	C	C	D	B	B	B	D

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Panjab University, Chandigarh

Ph.D. - 2023

ANSWERS / KEY

Subject: Chemistry(Ph.D.)

1	2	3	4	5	6	7	8	9	10
B	B	C	D	B	D	A	B	C	D
11	12	13	14	15	16	17	18	19	20
C	D	B	C	B	D	X	C	D	A
21	22	23	24	25	26	27	28	29	30
B	B	C	A	C	A	C	C	D	D
31	32	33	34	35	36	37	38	39	40
C	A	D	C	C	C	A	C	B	A
41	42	43	44	45	46	47	48	49	50
C	D	A	A	D	A	B	B	D	C

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Panjab University, Chandigarh

Ph.D. - 2023

ANSWERS / KEY

Subject: Geology(Ph.D.)

1	2	3	4	5	6	7	8	9	10
B	A	B	B	A	C	D	B	A	C
11	12	13	14	15	16	17	18	19	20
B	B	A	C	B	B	D	A	D	A
21	22	23	24	25	26	27	28	29	30
B	A	A	B	C	B	D	A	D	C
31	32	33	34	35	36	37	38	39	40
C	D	D	A	A	A	A	C	B	A
41	42	43	44	45	46	47	48	49	50
C	A	B	D	D	A	D	C	A	A

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Panjab University, Chandigarh

Ph.D. - 2023

ANSWERS / KEY

Subject: Human Genomics(Ph.D.)

1	2	3	4	5	6	7	8	9	10
D	B	D	D	C	C	B	A	A	A
11	12	13	14	15	16	17	18	19	20
B	A	A	D	B	B	C	B	D	A
21	22	23	24	25	26	27	28	29	30
A	C	B	C	A	B	D	D	B	A
31	32	33	34	35	36	37	38	39	40
D	C	B	B	B	D	A	A	B	B
41	42	43	44	45	46	47	48	49	50
C	D	B	D	D	D	D	A	C	C

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Panjab University, Chandigarh

Ph.D. - 2023

ANSWERS / KEY

Subject: Microbiology(Ph.D.)

1	2	3	4	5	6	7	8	9	10
A	A	B	C	D	A	A	C	D	C
11	12	13	14	15	16	17	18	19	20
D	C	C	A	C	D	B	C	B	B
21	22	23	24	25	26	27	28	29	30
A	C	B	A	C	C	D	D	A	C
31	32	33	34	35	36	37	38	39	40
C	C	C	A	C	A	D	C	A	A
41	42	43	44	45	46	47	48	49	50
B	D	D	A	D	A	A	D	D	D

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Panjab University, Chandigarh

Ph.D. - 2023

ANSWERS / KEY

Subject: Physics(Ph.D.)

1	2	3	4	5	6	7	8	9	10
D	D	C	D	D	C	D	C	B	A
11	12	13	14	15	16	17	18	19	20
D	C	C	D	C	B	C	C	B	B
21	22	23	24	25	26	27	28	29	30
C	C	B	A	B	B	A	D	A	A
31	32	33	34	35	36	37	38	39	40
B	A	C	B	B	A	D	A	B	C
41	42	43	44	45	46	47	48	49	50
D	B	C	D	C	D	C	B	D	A

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Panjab University, Chandigarh

Ph.D. - 2023

ANSWERS / KEY

Subject: Microbial Biotechnology(Ph.D.)

1	2	3	4	5	6	7	8	9	10
C	A	D	C	B	B	C	B	B	D
11	12	13	14	15	16	17	18	19	20
A	D	C	C	B	A	B	A	B	D
21	22	23	24	25	26	27	28	29	30
C	D	A	B	C	A	D	B	A	D
31	32	33	34	35	36	37	38	39	40
D	D	D	B	C	B	C	B	A	D
41	42	43	44	45	46	47	48	49	50
B	D	A	B	D	B	A	D	A	A

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Panjab University, Chandigarh

Ph.D. - 2023

ANSWERS / KEY

Subject: Home Science(Ph.D.)

1	2	3	4	5	6	7	8	9	10
D	C	B	D	B	D	A	B	D	A
11	12	13	14	15	16	17	18	19	20
B	X	D	B	D	C	C	B	D	D
21	22	23	24	25	26	27	28	29	30
D	D	C	D	B	B	C	B	A	C
31	32	33	34	35	36	37	38	39	40
B	C	D	C	B	D	B	B	C	D
41	42	43	44	45	46	47	48	49	50
A	D	C	A	A	C	C	B	B	A

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Panjab University, Chandigarh

Ph.D. - 2023

ANSWERS / KEY

Subject: English(Ph.D.)

1	2	3	4	5	6	7	8	9	10
B	C	A	C	B	A	A	D	A	A
11	12	13	14	15	16	17	18	19	20
A	C	D	C	B	B	C	B	A	A
21	22	23	24	25	26	27	28	29	30
C	A	A	A	B	C	B	B	A	C
31	32	33	34	35	36	37	38	39	40
C	A	A	D	B	A	D	A	A	D
41	42	43	44	45	46	47	48	49	50
B	A	B	D	A	A	D	B	D	A

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Panjab University, Chandigarh

Ph.D. - 2023

ANSWERS / KEY

Subject: Punjabi(Ph.D.)

1	2	3	4	5	6	7	8	9	10
B	A	C	C	A	A	C	A	B	D
11	12	13	14	15	16	17	18	19	20
C	B	B	C	B	C	D	B	D	A
21	22	23	24	25	26	27	28	29	30
B	D	A	B	D	A	C	C	A	B
31	32	33	34	35	36	37	38	39	40
A	D	D	C	C	C	B	D	B	B
41	42	43	44	45	46	47	48	49	50
A	C	D	A	C	C	B	D	B	B

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Panjab University, Chandigarh

Ph.D. - 2023

ANSWERS / KEY

Subject: Hindi(Ph.D.)

1	2	3	4	5	6	7	8	9	10
D	B	C	C	D	B	B	B	B	A
11	12	13	14	15	16	17	18	19	20
D	D	A	A	B	A	A	A	B	B
21	22	23	24	25	26	27	28	29	30
A	C	C	A	A	A	D	B	C	D
31	32	33	34	35	36	37	38	39	40
D	C	A	D	B	A	A	D	B	D
41	42	43	44	45	46	47	48	49	50
C	B	A	C	C	B	A	C	D	C

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Panjab University, Chandigarh

Ph.D. - 2023

ANSWERS / KEY

Subject: Physical Education(Ph.D)

1	2	3	4	5	6	7	8	9	10
C	B	A	C	B	A	B	B	C	C
11	12	13	14	15	16	17	18	19	20
A	A	C	B	D	C	A	B	B	D
21	22	23	24	25	26	27	28	29	30
D	B	D	A	A	A	D	C	D	A
31	32	33	34	35	36	37	38	39	40
B	A	A	C	B	A	A	A	B	D
41	42	43	44	45	46	47	48	49	50
A	A	D	C	C	B	D	A	A	A

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Panjab University, Chandigarh

Ph.D. - 2023

ANSWERS / KEY

Subject: Finance & Accounting (Ph.D.)

1	2	3	4	5	6	7	8	9	10
C	C	X	C	D	C	B	C	B	B
11	12	13	14	15	16	17	18	19	20
C	A	B	B	A	C	C	B	C	C
21	22	23	24	25	26	27	28	29	30
B	B	C	C	B	B	B	C	B	C
31	32	33	34	35	36	37	38	39	40
B	C	A	D	B	B	B	C	C	D
41	42	43	44	45	46	47	48	49	50
A	D	B	C	D	B	D	B	B	D

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Panjab University, Chandigarh

Ph.D. - 2023

ANSWERS / KEY

Subject: Marketing(Ph.D.)

1	2	3	4	5	6	7	8	9	10
C	C	X	C	D	C	B	C	B	B
11	12	13	14	15	16	17	18	19	20
C	A	B	B	A	C	C	B	C	C
21	22	23	24	25	26	27	28	29	30
B	B	C	C	B	B	B	C	B	C
31	32	33	34	35	36	37	38	39	40
B	C	A	D	B	B	B	C	C	D
41	42	43	44	45	46	47	48	49	50
A	D	B	C	D	B	D	B	B	D

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Panjab University, Chandigarh

Ph.D. - 2023

ANSWERS / KEY

Subject: Human Resource(Ph.D.)

1	2	3	4	5	6	7	8	9	10
C	C	X	C	D	C	B	C	B	B
11	12	13	14	15	16	17	18	19	20
C	A	B	B	A	C	C	B	C	C
21	22	23	24	25	26	27	28	29	30
B	B	C	C	B	B	B	C	B	C
31	32	33	34	35	36	37	38	39	40
B	C	A	D	B	B	B	C	C	D
41	42	43	44	45	46	47	48	49	50
A	D	B	C	D	B	D	B	B	D

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Panjab University, Chandigarh

Ph.D. - 2023

ANSWERS / KEY

Subject: Business Economics(Ph.D.)

1	2	3	4	5	6	7	8	9	10
C	C	X	C	D	C	B	C	B	B
11	12	13	14	15	16	17	18	19	20
C	A	B	B	A	C	C	B	C	C
21	22	23	24	25	26	27	28	29	30
B	B	C	C	B	B	B	C	B	C
31	32	33	34	35	36	37	38	39	40
B	C	A	D	B	B	B	C	C	D
41	42	43	44	45	46	47	48	49	50
A	D	B	C	D	B	D	B	B	D

Note: An 'X' (if any) in the key indicates that either the question is ambiguous or it has printing mistake. All candidates will be given credit for this question

Panjab University, Chandigarh
Ph.D. - 2023
ANSWERS / KEY

Subject: Strategic Management(Ph.D)

1	2	3	4	5	6	7	8	9	10
C	C	X	C	D	C	B	C	B	B
11	12	13	14	15	16	17	18	19	20
C	A	B	B	A	C	C	B	C	C
21	22	23	24	25	26	27	28	29	30
B	B	C	C	B	B	B	C	B	C
31	32	33	34	35	36	37	38	39	40
B	C	A	D	B	B	B	C	C	D
41	42	43	44	45	46	47	48	49	50
A	D	B	C	D	B	D	B	B	D

Note: An 'X' (if any) in the key indicates that either the question is ambiguous or it has printing mistake. All candidates will be given credit for this question

Panjab University, Chandigarh
Ph.D. - 2023
ANSWERS / KEY

Subject: Operations (Ph.D)

1	2	3	4	5	6	7	8	9	10
C	C	X	C	D	C	B	C	B	B
11	12	13	14	15	16	17	18	19	20
C	A	B	B	A	C	C	B	C	C
21	22	23	24	25	26	27	28	29	30
B	B	C	C	B	B	B	C	B	C
31	32	33	34	35	36	37	38	39	40
B	C	A	D	B	B	B	C	C	D
41	42	43	44	45	46	47	48	49	50
A	D	B	C	D	B	D	B	B	D

Note: An 'X' (if any) in the key indicates that either the question is ambiguous or it has printing mistake. All candidates will be given credit for this question

Panjab University, Chandigarh
Ph.D. - 2023
ANSWERS / KEY

Subject: Information Systems(Ph.D.)

1	2	3	4	5	6	7	8	9	10
C	C	X	C	D	C	B	C	B	B
11	12	13	14	15	16	17	18	19	20
C	A	B	B	A	C	C	B	C	C
21	22	23	24	25	26	27	28	29	30
B	B	C	C	B	B	B	C	B	C
31	32	33	34	35	36	37	38	39	40
B	C	A	D	B	B	B	C	C	D
41	42	43	44	45	46	47	48	49	50
A	D	B	C	D	B	D	B	B	D

Note: An 'X' (if any) in the key indicates that either the question is ambiguous or it has printing mistake. All candidates will be given credit for this question

Panjab University, Chandigarh

Ph.D. - 2023

ANSWERS / KEY

Subject: Vocal & Instrumental(Ph.D.)

1	2	3	4	5	6	7	8	9	10
D	C	B	B	D	C	A	C	D	B
11	12	13	14	15	16	17	18	19	20
B	D	C	B	C	C	D	C	C	B
21	22	23	24	25	26	27	28	29	30
B	A	A	A	A	A	B	B	C	B
31	32	33	34	35	36	37	38	39	40
B	C	A	C	C	B	B	D	A	C
41	42	43	44	45	46	47	48	49	50
D	D	B	D	A	B	A	D	A	B

Note: An 'X' (if any) in the key indicates that either the question is ambiguous or it has printing mistake. All candidates will be given credit for this question

Panjab University, Chandigarh

Ph.D. - 2023

ANSWERS / KEY

Subject: Art History & Visual Arts (Ph.D)

1	2	3	4	5	6	7	8	9	10
D	C	B	D	A	D	D	A	D	A
11	12	13	14	15	16	17	18	19	20
C	B	B	C	D	A	A	C	A	B
21	22	23	24	25	26	27	28	29	30
D	C	A	C	B	A	B	C	C	D
31	32	33	34	35	36	37	38	39	40
A	C	B	B	C	A	A	D	C	B
41	42	43	44	45	46	47	48	49	50
D	C	C	A	B	B	C	D	A	A

Note: An 'X' (if any) in the key indicates that either the question is ambiguous or it has printing mistake. All candidates will be given credit for this question

Panjab University, Chandigarh

Ph.D. - 2023

ANSWERS / KEY

Subject: Computer Science & Engineering(Ph.D.)

1	2	3	4	5	6	7	8	9	10
D	C	B	B	C	D	C	B	D	C
11	12	13	14	15	16	17	18	19	20
D	D	B	B	D	X	A	B	B	B
21	22	23	24	25	26	27	28	29	30
A	B	C	X	B	D	C	C	D	C
31	32	33	34	35	36	37	38	39	40
D	A	B	D	B	C	A	C	A	A
41	42	43	44	45	46	47	48	49	50
D	A	D	D	A	B	B	D	A	C

Note: An 'X' (if any) in the key indicates that either the question is ambiguous or it has printing mistake. All candidates will be given credit for this question

Panjab University, Chandigarh

Ph.D. - 2023

ANSWERS / KEY

Subject: Mechanical Engineering(Ph.D.)

1	2	3	4	5	6	7	8	9	10
A	B	D	C	B	B	B	C	C	A
11	12	13	14	15	16	17	18	19	20
D	C	D	D	B	B	A	B	D	D
21	22	23	24	25	26	27	28	29	30
A	D	C	D	A	B	C	B	B	D
31	32	33	34	35	36	37	38	39	40
C	B	A	B	B	B	A	C	D	A
41	42	43	44	45	46	47	48	49	50
C	A	B	A	A	D	A	D	C	B

Note: An 'X' (if any) in the key indicates that either the question is ambiguous or it has printing mistake. All candidates will be given credit for this question

Panjab University, Chandigarh

Ph.D. - 2023

ANSWERS / KEY

Subject: Biotechnology Engineering(Ph.D.)

1	2	3	4	5	6	7	8	9	10
B	B	C	D	A	D	B	D	B	B
11	12	13	14	15	16	17	18	19	20
A	C	C	C	D	A	A	X	B	B
21	22	23	24	25	26	27	28	29	30
C	A	B	X	D	C	A	C	A	A
31	32	33	34	35	36	37	38	39	40
C	B	B	A	A	A	B	A	A	D
41	42	43	44	45	46	47	48	49	50
C	B	D	D	A	C	C	B	B	C

Note: An 'X' (if any) in the key indicates that either the question is ambiguous or it has printing mistake. All candidates will be given credit for this question

Panjab University, Chandigarh

Ph.D. - 2023

ANSWERS / KEY

Subject: Chemical Engineering(Ph.D)

1	2	3	4	5	6	7	8	9	10
C	C	B	C	B	A	C	A	A	A
11	12	13	14	15	16	17	18	19	20
D	A	B	C	B	D	B	C	C	D
21	22	23	24	25	26	27	28	29	30
D	C	B	B	B	C	A	D	A	B
31	32	33	34	35	36	37	38	39	40
B	D	C	C	C	C	C	D	A	A
41	42	43	44	45	46	47	48	49	50
D	C	A	A	A	D	D	C	B	C

Note: An 'X' (if any) in the key indicates that either the question is ambiguous or it has printing mistake. All candidates will be given credit for this question

Panjab University, Chandigarh

Ph.D. - 2023

ANSWERS / KEY

Subject: Food Technology(Ph.D)

1	2	3	4	5	6	7	8	9	10
C	B	A	A	A	A	B	C	B	D
11	12	13	14	15	16	17	18	19	20
D	C	C	D	A	A	C	C	A	D
21	22	23	24	25	26	27	28	29	30
A	B	A	B	D	D	A	D	A	D
31	32	33	34	35	36	37	38	39	40
C	C	A	A	D	A	D	C	A	B
41	42	43	44	45	46	47	48	49	50
A	A	C	B	A	A	D	C	C	B

Note: An 'X' (if any) in the key indicates that either the question is ambiguous or it has printing mistake. All candidates will be given credit for this question

Panjab University, Chandigarh

Ph.D. - 2023

ANSWERS / KEY

Subject: Industrial Chemistry(Ph.D)

1	2	3	4	5	6	7	8	9	10
C	C	D	B	B	X	A	D	B	B
11	12	13	14	15	16	17	18	19	20
C	C	D	C	A	B	C	B	A	A
21	22	23	24	25	26	27	28	29	30
B	C	B	A	C	D	B	D	A	B
31	32	33	34	35	36	37	38	39	40
C	A	D	A	A	B	A	C	C	D
41	42	43	44	45	46	47	48	49	50
B	B	A	A	D	D	A	C	B	B

Note: An 'X' (if any) in the key indicates that either the question is ambiguous or it has printing mistake. All candidates will be given credit for this question

Panjab University, Chandigarh

Ph.D. - 2023

ANSWERS / KEY

Subject: Electronics & Communication Engineering(Ph.D.)

1	2	3	4	5	6	7	8	9	10
A	D	C	A	B	B	A	D	B	B
11	12	13	14	15	16	17	18	19	20
C	A	C	B	A	B	D	B	B	C
21	22	23	24	25	26	27	28	29	30
B	C	C	B	B	X	C	B	C	A
31	32	33	34	35	36	37	38	39	40
A	C	B	C	D	C	B	C	A	B
41	42	43	44	45	46	47	48	49	50
D	B	C	D	A	C	A	C	B	B

Note: An 'X' (if any) in the key indicates that either the question is ambiguous or it has printing mistake. All candidates will be given credit for this question

Panjab University, Chandigarh

Ph.D. - 2023

ANSWERS / KEY

Subject: Civil Engineering(Ph.D.)

1	2	3	4	5	6	7	8	9	10
C	A	D	A	A	X	A	A	B	A
11	12	13	14	15	16	17	18	19	20
B	A	B	C	A	B	B	X	B	B
21	22	23	24	25	26	27	28	29	30
C	D	D	B	B	C	A	C	C	C
31	32	33	34	35	36	37	38	39	40
C	B	D	D	B	C	A	X	D	D
41	42	43	44	45	46	47	48	49	50
C	B	D	C	C	D	C	C	C	D

Note: An 'X' (if any) in the key indicates that either the question is ambiguous or it has printing mistake. All candidates will be given credit for this question

Panjab University, Chandigarh

Ph.D. - 2023

ANSWERS / KEY

Subject: Information Technology Engineering(Ph.D.)

1	2	3	4	5	6	7	8	9	10
D	B	D	A	A	C	C	A	B	A
11	12	13	14	15	16	17	18	19	20
B	D	B	C	A	A	B	B	A	D
21	22	23	24	25	26	27	28	29	30
D	C	D	C	D	A	D	A	C	A
31	32	33	34	35	36	37	38	39	40
C	B	C	B	B	D	C	C	D	C
41	42	43	44	45	46	47	48	49	50
A	A	A	B	B	A	C	C	A	D

Note: An 'X' (if any) in the key indicates that either the question is ambiguous or it has printing mistake. All candidates will be given credit for this question

Panjab University, Chandigarh
Ph.D. - 2023
ANSWERS / KEY

Subject: Electrical Engineering(Ph.D.)

1	2	3	4	5	6	7	8	9	10
C	C	C	B	D	D	A	D	C	A
11	12	13	14	15	16	17	18	19	20
X	C	A	A	B	D	A	D	X	X
21	22	23	24	25	26	27	28	29	30
C	A	C	D	A	D	C	D	A	C
31	32	33	34	35	36	37	38	39	40
D	B	A	B	D	D	C	B	D	C
41	42	43	44	45	46	47	48	49	50
C	D	C	D	C	D	X	C	B	A

Note: An 'X' (if any) in the key indicates that either the question is ambiguous or it has printing mistake. All candidates will be given credit for this question

Panjab University, Chandigarh

Ph.D. - 2023

ANSWERS / KEY

Subject: Pharmaceutical Chemistry(Ph.D.)

1	2	3	4	5	6	7	8	9	10
A	B	D	X	C	A	A	B	A	A
11	12	13	14	15	16	17	18	19	20
X	B	D	A	C	A	A	C	C	A
21	22	23	24	25	26	27	28	29	30
C	D	C	B	D	C	A	D	D	D
31	32	33	34	35	36	37	38	39	40
C	A	D	A	A	B	B	A	B	C
41	42	43	44	45	46	47	48	49	50
B	D	X	C	D	D	B	B	B	C

Note: An 'X' (if any) in the key indicates that either the question is ambiguous or it has printing mistake. All candidates will be given credit for this question

Panjab University, Chandigarh

Ph.D. - 2023

ANSWERS / KEY

Subject: Phamaceutics (Ph.D.)

1	2	3	4	5	6	7	8	9	10
A	B	D	X	C	A	A	B	A	A
11	12	13	14	15	16	17	18	19	20
X	B	D	A	C	A	A	C	C	A
21	22	23	24	25	26	27	28	29	30
C	D	C	B	D	C	A	D	D	D
31	32	33	34	35	36	37	38	39	40
C	A	D	A	A	B	B	A	B	C
41	42	43	44	45	46	47	48	49	50
B	D	X	C	D	D	B	B	B	C

Note: An 'X' (if any) in the key indicates that either the question is ambiguous or it has printing mistake. All candidates will be given credit for this question

Panjab University, Chandigarh

Ph.D. - 2023

ANSWERS / KEY

Subject: Pharmacognosy (Ph.D.)

1	2	3	4	5	6	7	8	9	10
A	B	D	X	C	A	A	B	A	A
11	12	13	14	15	16	17	18	19	20
X	B	D	A	C	A	A	C	C	A
21	22	23	24	25	26	27	28	29	30
C	D	C	B	D	C	A	D	D	D
31	32	33	34	35	36	37	38	39	40
C	A	D	A	A	B	B	A	B	C
41	42	43	44	45	46	47	48	49	50
B	D	X	C	D	D	B	B	B	C

Note: An 'X' (if any) in the key indicates that either the question is ambiguous or it has printing mistake. All candidates will be given credit for this question

Panjab University, Chandigarh

Ph.D. - 2023

ANSWERS / KEY

Subject: Pharmacology (Ph.D.)

1	2	3	4	5	6	7	8	9	10
A	B	D	X	C	A	A	B	A	A
11	12	13	14	15	16	17	18	19	20
X	B	D	A	C	A	A	C	C	A
21	22	23	24	25	26	27	28	29	30
C	D	C	B	D	C	A	D	D	D
31	32	33	34	35	36	37	38	39	40
C	A	D	A	A	B	B	A	B	C
41	42	43	44	45	46	47	48	49	50
B	D	X	C	D	D	B	B	B	C

Note: An 'X' (if any) in the key indicates that either the question is ambiguous or it has printing mistake. All candidates will be given credit for this question

Panjab University, Chandigarh

Ph.D. - 2023

ANSWERS / KEY

Subject: Pharmaceutical Analysis (Ph.D.)

1	2	3	4	5	6	7	8	9	10
A	B	D	X	C	A	A	B	A	A
11	12	13	14	15	16	17	18	19	20
X	B	D	A	C	A	A	C	C	A
21	22	23	24	25	26	27	28	29	30
C	D	C	B	D	C	A	D	D	D
31	32	33	34	35	36	37	38	39	40
C	A	D	A	A	B	B	A	B	C
41	42	43	44	45	46	47	48	49	50
B	D	X	C	D	D	B	B	B	C

Note: An 'X' (if any) in the key indicates that either the question is ambiguous or it has printing mistake. All candidates will be given credit for this question

Panjab University, Chandigarh

Ph.D. - 2023

ANSWERS / KEY

Subject: Pharmaceutical Quality Assurance (Ph.D.)

1	2	3	4	5	6	7	8	9	10
A	B	D	X	C	A	A	B	A	A
11	12	13	14	15	16	17	18	19	20
X	B	D	A	C	A	A	C	C	A
21	22	23	24	25	26	27	28	29	30
C	D	C	B	D	C	A	D	D	D
31	32	33	34	35	36	37	38	39	40
C	A	D	A	A	B	B	A	B	C
41	42	43	44	45	46	47	48	49	50
B	D	X	C	D	D	B	B	B	C

Note: An 'X' (if any) in the key indicates that either the question is ambiguous or it has printing mistake. All candidates will be given credit for this question

Panjab University, Chandigarh

Ph.D. - 2023

ANSWERS / KEY

Subject: Infrastructural Management(Ph.D)

1	2	3	4	5	6	7	8	9	10
C	C	X	C	D	C	B	C	B	B
11	12	13	14	15	16	17	18	19	20
C	A	B	B	A	C	C	B	C	C
21	22	23	24	25	26	27	28	29	30
B	B	C	C	B	B	B	C	B	C
31	32	33	34	35	36	37	38	39	40
B	C	A	D	B	B	B	C	C	D
41	42	43	44	45	46	47	48	49	50
A	D	B	C	D	B	D	B	B	D

Note: An 'X' (if any) in the key indicates that either the question is ambiguous or it has printing mistake. All candidates will be given credit for this question

Panjab University, Chandigarh

Ph.D. - 2023

ANSWERS / KEY

Subject: Retail Management (Ph.D.)

1	2	3	4	5	6	7	8	9	10
C	C	X	C	D	C	B	C	B	B
11	12	13	14	15	16	17	18	19	20
C	A	B	B	A	C	C	B	C	C
21	22	23	24	25	26	27	28	29	30
B	B	C	C	B	B	B	C	B	C
31	32	33	34	35	36	37	38	39	40
B	C	A	D	B	B	B	C	C	D
41	42	43	44	45	46	47	48	49	50
A	D	B	C	D	B	D	B	B	D

Note: An 'X' (if any) in the key indicates that either the question is ambiguous or it has printing mistake. All candidates will be given credit for this question

Panjab University, Chandigarh

Ph.D. - 2023

ANSWERS / KEY

Subject: Banking & Insurance Management(Ph.D.)

1	2	3	4	5	6	7	8	9	10
C	C	X	C	D	C	B	C	B	B
11	12	13	14	15	16	17	18	19	20
C	A	B	B	A	C	C	B	C	C
21	22	23	24	25	26	27	28	29	30
B	B	C	C	B	B	B	C	B	C
31	32	33	34	35	36	37	38	39	40
B	C	A	D	B	B	B	C	C	D
41	42	43	44	45	46	47	48	49	50
A	D	B	C	D	B	D	B	B	D

Note: An 'X' (if any) in the key indicates that either the question is ambiguous or it has printing mistake. All candidates will be given credit for this question

Panjab University, Chandigarh

Ph.D. - 2023

ANSWERS / KEY

Subject: Capital Markets(Ph.D.)

1	2	3	4	5	6	7	8	9	10
C	C	X	C	D	C	B	C	B	B
11	12	13	14	15	16	17	18	19	20
C	A	B	B	A	C	C	B	C	C
21	22	23	24	25	26	27	28	29	30
B	B	C	C	B	B	B	C	B	C
31	32	33	34	35	36	37	38	39	40
B	C	A	D	B	B	B	C	C	D
41	42	43	44	45	46	47	48	49	50
A	D	B	C	D	B	D	B	B	D

Note: An 'X' (if any) in the key indicates that either the question is ambiguous or it has printing mistake. All candidates will be given credit for this question

Panjab University, Chandigarh
Ph.D. - 2023
ANSWERS / KEY

Subject: Information Systems(Ph.D.)

1	2	3	4	5	6	7	8	9	10
C	C	X	C	D	C	B	C	B	B
11	12	13	14	15	16	17	18	19	20
C	A	B	B	A	C	C	B	C	C
21	22	23	24	25	26	27	28	29	30
B	B	C	C	B	B	B	C	B	C
31	32	33	34	35	36	37	38	39	40
B	C	A	D	B	B	B	C	C	D
41	42	43	44	45	46	47	48	49	50
A	D	B	C	D	B	D	B	B	D

Note: An 'X' (if any) in the key indicates that either the question is ambiguous or it has printing mistake. All candidates will be given credit for this question

Panjab University, Chandigarh

Ph.D. - 2023

ANSWERS / KEY

Subject: Healthcare Management(Ph.D.)

1	2	3	4	5	6	7	8	9	10
C	C	X	C	D	C	B	C	B	B
11	12	13	14	15	16	17	18	19	20
C	A	B	B	A	C	C	B	C	C
21	22	23	24	25	26	27	28	29	30
B	B	C	C	B	B	B	C	B	C
31	32	33	34	35	36	37	38	39	40
B	C	A	D	B	B	B	C	C	D
41	42	43	44	45	46	47	48	49	50
A	D	B	C	D	B	D	B	B	D

Note: An 'X' (if any) in the key indicates that either the question is ambiguous or it has printing mistake. All candidates will be given credit for this question