

CATSE STUDY MATERIAL ANSWER KEY

8th MATHEMATICS

DPP-1

Q.1	Q.2	Q.3	Q.4	Q.5
D	C	C	B	A
Q.6	Q.7	Q.8	Q.9	Q.10
D	C	A	D	A
Q.11				
C				

DPP-2

Q.1	Q.2	Q.3	Q.4.	Q.5
A	D	B	C	C
Q.6	Q.7	Q.8	Q.9	Q.10
A	B	C	D	B
Q.11	Q.12			
D	D			

DPP-3

Q.1	Q.2	Q.3	Q.4	Q.5
C	D	A	C	D
Q.6	Q.7	Q.8	Q.9	Q.10
B	B	B	A	C
Q.11	Q.12			
D	B			

DPP-4

Q.1	Q.2	Q.3	Q.4	Q.5
B	D	B	A	B
Q.6	Q.7	Q.8	Q.9	Q.10
B	B	A	A	A
Q.11	Q.12			
C	D			

DPP-5

Q.1	Q.2	Q.3	Q.4	Q.5
B	A	D	C	A
Q.6	Q.7	Q.8	Q.9	Q.10
B	B	A	A	A
Q.11	Q.12			
D	A			

DPP-6

Q.1	Q.2	Q.3	Q.4	Q.5
C	D	B	C	A
Q.6	Q.7	Q.8	Q.9	Q.10
B	D	B	A	C
Q.11	Q.12			
C	D			

DPP-7

Q.1	Q.2	Q.3	Q.4	Q.5
D	A	C	B	A

Q.6	Q.7	Q.8	Q.9	Q.10
C	A	A	C	A
Q.11	Q.12			
B	C			

DPP-8

Q.1	Q.2	Q.3	Q.4	Q.5
C	A	D	B	C
Q.6	Q.7	Q.8	Q.9	Q.10
D	A	C	D	B
Q.11	Q.12			
D	A			

DPP-9

Q.1	Q.2	Q.3	Q.4	Q.5
B	C	A	A	A
Q.6	Q.7	Q.8	Q.9	Q.10
A	A	C	A	C
Q.11	Q.12			
C	C			

DPP-10

Q.1	Q.2	Q.3	Q.4	Q.5
D	C	C	B	A
Q.6	Q.7	Q.8	Q.9	Q.10
C	C	D	C	B

Q.11	Q.12			
A	D			

DPP-11

Q.1	Q.2	Q.3	Q.4	Q.5
A	C	D	C	A
Q.6	Q.7	Q.8	Q.9	Q.10
C	A	D	B	C
Q.11	Q.12			
C	D			

DPP-12

Q.1	Q.2	Q.3	Q.4	Q.5
D	A	B	D	A
Q.6	Q.7	Q.8	Q.9	Q.10
D	C	B	C	D
Q.11	Q.12			
A	B			

DPP-13

Q.1	Q.2	Q.3	Q.4	Q.5
B	A	C	C	A
Q.6	Q.7	Q.8	Q.9	Q.10
D	C	B	C	D
Q.11	Q.12			
A	C			

DPP-14

Q.1	Q.2	Q.3	Q.4	Q.5
B	C	D	C	A
Q.6	Q.7	Q.8	Q.9	Q.10
B	B	C	C	A
Q.11	Q.12			
D	B			

DPP-15

Q.1	Q.2	Q.3	Q.4	Q.5
A	B	D	C	A
Q.6	Q.7	Q.8	Q.9	Q.10
B	B	C	C	A
Q.11	Q.12	Q.13		
C	A	B		

DPP-16

Q.1	Q.2	Q.3	Q.4	Q.5
B	C	A	A	B
Q.6	Q.7	Q.8	Q.9	Q.10
B	B	C	C	A
Q.11	Q.12			
C	A			

DPP-17

Q.1	Q.2	Q.3	Q.4	Q.5
C	C	B	D	C
Q.6	Q.7	Q.8	Q.9	Q.10

B	C	C	C	C
Q.11	Q.12	Q.13	Q.14	Q.15
D	C	B	C	D
Q.16.	Q.17	Q.18	Q.19	Q.20
A	C	C	C	B
Q.21	Q.22	Q.23		
B	A	C		

DPP-18

Q.1	Q.2	Q.3	Q.4	Q.5
$-x + y$	$-6x^4y - 11xyz - 10x^2y^2$	$A + D = -12x, A + B = x$ $B + C = 14x, A + C = 5x$	-14	$2x - z$
Q.6	Q.7	Q.8	Q.9	Q.10
$2x^2 - 3y^2 - 4 + 2z$	$6a - 19b + 11c$	$6a - 4b - 4ab$	$\frac{3}{2}a^3 + \frac{7}{6}a^2$	$\frac{10}{12}x - \frac{51}{20}y + \frac{13}{30}xy$
Q.11	Q.12	Q.13	Q.14	Q.15
$\frac{3}{4}x^3 - \frac{11}{30}x + \frac{71}{30}$	$16a - 8b$	$5x^3 + \frac{11}{4}x^2 - \frac{7}{2}x$	$\frac{51}{14}xy - \frac{31y}{10} - \frac{19}{35}x$	$18z$
Q.16.	Q.17	Q.18	Q.19	Q.20
$8x - 18y - 20z$	$17a + 12b$	$17x - 3y - 4z$	$(14x - 11y + 16z)$	491 Meters

DPP-19

Q.1	Q.2	Q.3	Q.4	Q.5
$-10a^2 + ab + 2b^2$	$-2x - y + 2z$	$-5x^3 + 16x^2 + x - 1$	$-5x^3 + x - 1$	$-8a - 10b$
Q.6	Q.7	Q.8	Q.9	Q.10
$5a + b + 10c$	$11m - 7x$	$-23a$	$2a + 3b + 4c$	$-4m + 14n - 9p^3$
Q.11	Q.12	Q.13	Q.14	Q.15
$-\frac{1}{2}x^2 - \frac{3}{2}x + \frac{3}{2}$	$-\frac{1}{3}x^2 + \frac{17}{6}xy^2 - \frac{5}{3}xy$	$2m + 5n - 2p + 3$	$a - 3b$	$x^2 + 7y^2 + 3xy - 8$

Q.16.	Q.17	Q.18	Q.19	Q.20
$2x^2 + 7x + 1$	$8x^3 - 5x^2 + 5x + 7$	$3a + 5b + 1$	$-p - 2q - 5$	$6x + 10y - z$
Q.21	Q.22	Q.23	Q.24	Q.25
$-x^3 + 4x^2 - 6x + 4$	$-x + 2y - z$	$-a^2 - 3b^2$	$-8a^2 + 9a^2 - 6a + 3$	$-8x + 19y$

DPP-20

Q.1	Q.2	Q.3	Q.4	Q.5
C	A	D	A	C
Q.6	Q.7	Q.8	Q.9	Q.10
C	A	C	D	B
Q.11	Q.12	Q.13	Q.14	Q.15
C	A	D	A	C
Q.16	Q.17	Q.18	Q.19	Q.20
C	A	C	D	B
Q.21	Q.22	Q.23	Q.24	Q.25
C	A	A	C	A

DPP-21

Q.1	Q.2	Q.3	Q.4	Q.5
a^3b	$3x^{1/3}y^{2/5}z^{4/8}$	$3x^2 - \frac{4}{3}xa - \frac{2}{3}a^2$	2m	C
Q.6	Q.7	Q.8	Q.9	Q.10
C	D	A	A	A
Q.11	Q.12	Q.13	Q.14	Q.15
C	D	C	B	C
Q.16	Q.17	Q.18	Q.19	Q.20
B	D	B	D	C

Q.21	Q.22	Q.23	Q.24	
C	C	B	D	

DPP-22

Q.1	Q.2	Q.3	Q.4	Q.5
C	D	A	D	A
Q.6	Q.7	Q.8	Q.9	Q.10
D	C	C	A	C
Q.11	Q.12	Q.13	Q.14	Q.15
B	B	B	C	D
Q.16	Q.17	Q.18	Q.19	Q.20
C	B	C	C	D
Q.21	Q.22	Q.23		
D	A	C		

DPP-23

Q.1	Q.2	Q.3	Q.4	Q.5
i, ii	(i)3 (ii)2 (iii) 1 (iv)0	(i)quadratic (ii)Cubic (iii)Quadratic (iv)Quadratic (v)linear	(i) & (iv)	Quotient = $3x^2 + 4x + 5$ Remainder = 0
Q.6	Q.7	Q.8	Q.9	
Quotient = $3x^2 + 6x^2 + 8x + 24$ Remainder=47	Quotient = $2x^2 + x - 3$ Remainder = 0	Quotient = $3x^2 - 4x + 2$ Remainder = 0	Quotient = $a^2 + ab + b^2$ Remainder = 0	

DPP-24

Q.1	Q.2	Q.3	Q.4	Q.5
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$10x^2 - 7x - 12$ (b) $6x^5 - 2x^2 - 15x^2 + 6$	(i) $\frac{x^2}{y^2} + \frac{y^2}{x^2} + 2$ ii) 64192144 iii) 0.9216	$a^2 + b^2 + c^2 +$ $2ab + 2ab + 2ac$	$a^2 + b^2 + c^2$ $+d^2 + 2ab + 2ac$ $+2ad + 2bc +$ $2bd + 2cd$	$4a^2$
Q.6	Q.7	Q.8	Q.9	Q.10
1000000	241	527	$(x + y)^2 = x^2 + 2xy + y^2$ $(2x - 4y)^2 = 4x^2 - 16xy + 16y^2$ $(5m + l)^2 = 25m^2 + 10lm + l^2$ $(x - 6y)^2 + x^2 - 12xy + 36y^2$ $(8a + 6y)^2 = 64a^2 + 96ab + 36b^2$	0.09 $r^2 - 0.25 s^2$
Q.11	Q.12	Q.13	Q.14	Q.15
$\frac{l^4}{16} - \frac{m^4}{81}$	$a - b$	80.96	$x^2 + y^2 + z^2 -$ $2xy - 2xz + 2yz$	6
Q.16	Q.17	Q.18		
xy	$(a + b + c - d)$ $(a + b - c + d)$	$-7x^2 + 2$		

DPP-25

Q.1	Q.2	Q.3	Q.4	Q.5
$27a^3 + 135a^2 b +$ $225ab^2 + 125b^3$	157464	$p^3 + 3p^2q + 3p^2r +$ $3q^2r + 3q^2p + 3r^3p +$ $3r^2 + q^3 + r^3 + 6pqr$	7762392	$8x^3$
Q.6	Q.7	Q.8	Q.9	Q.10
$8x^3$	$(3a + 2)(9a^2 - 6a + 4)$	$(2x - y + z)^2$	$(-2a + b + c)^2, (2a - b - c)^2$	$8a^3 + b^3 + c^3 + 6abc$
Q.11	Q.12	Q.13	Q.14	Q.15
$x^6 + 2x^3 + 1$	$125a^3 - 27$	$a^6 - 8$	35	$p^3 - 3p$

Q.16	Q.17	Q.18	Q.19	Q.20
110	52	$a^6 + b^6 + 3a^2b^2c^2 = c^6$	$ab + bc + ca = -2$	$(a+b+1)(a^2+b^2+1-b-a-ab)$

DPP-26

Q.1	Q.2	Q.3	Q.4	Q.5
$x = -2$	$3 - 2\sqrt{2}$	$a + b + c$	$x = 2$	$y = 12$
Q.6	Q.7	Q.8	Q.9	Q.10
$x = 4$	$x = \frac{41}{26}$	$x = \frac{2}{5}$	$x = 2(c - a - b)$	$x = -6$
Q.11	Q.12			
$x = a - b$	$x = ab + bc + ca$			

DPP-27

Q.1	Q.2	Q.3	Q.4	Q.5
The bigger part is 30 & Smaller is 24	$\frac{4}{7}$	56	Present age to the Son 24 Years Man is 2×24 years = 48 years	Length = 6 cm & breadth = 3cm
Q.6	Q.7	Q.8	Q.9	Q.10
Cost Price = 500	3Km/h	$x = 24$	$x = 2.5$ km/ h	Speed of A = 3 km/h Speed of B = $\frac{30}{7} = 4\frac{2}{7}$ km/hr

DPP-28

Q.1	Q.2	Q.3	Q.4	Q.5
$x = \frac{-1}{2}, y = \frac{1}{2}$	$u = -17, v = \frac{17}{10}$	$x = 2$ and $y = 1$	$x = 5(\sqrt{10} - 3)$ and $y = 5\sqrt{15} - 8\sqrt{6}$	$x = b, y = -a$
Q.6	Q.7	Q.8	Q.9	Q.10
$x = 3$	$x = a$	$a = 1, x = 1$	$x = \frac{-7}{37}$	= 42
Q.11	Q.12	Q.13	Q.14	Q.15

The present age of the father = 68 years, and the present age of the son = 32 years.	153 cm ²	Rs 1800	The speed of the boat in still water = 10 km/h, and the speed of the stream = 2 km/h	$\frac{5}{2}$ litres of the first solution and $\frac{15}{2}$ litres of the second solution are to be mixed.
Q.16	Q.17	Q.18	Q.19	
$\frac{3}{4}$	15 litres	$x = 15, y = 30$	Rs 255	

DPP-29

Q.1	Q.2	Q.3	Q.4	Q.5
A	C	D	B	C
Q.6	Q.7	Q.8		
A	D	D		

DPP-30

Q.1	Q.2	Q.3	Q.4	Q.5
A	C	B	C	C
Q.6	Q.7	Q.8	Q.9	Q.10
C	C	B	A	D
Q.11	Q.12			
A	C			

DPP-31

Q.1	Q.2	Q.3	Q.4	Q.5
A	C	C	D	B
Q.6	Q.7	Q.8	Q.9	Q.10
B	C	A	C	D
Q.11	Q.12	Q.13	Q.14	
C	A	B	D	

DPP-32

Q.1	Q.2	Q.3	Q.4	Q.5
C	C	B	A	D
Q.6	Q.7	Q.8	Q.9	Q.10
C	D	C	C	B
Q.11				
B				

DPP-33

Q.1	Q.2	Q.3	Q.4	Q.5
D	B	B	A	D
Q.6	Q.7	Q.8	Q.9	Q.10
C	B	C	B	A
Q.11				
C				

DPP-34

Q.1	Q.2	Q.3	Q.4	Q.5
D	C	A	C	B
Q.6	Q.7	Q.8	Q.9	Q.10
D	B	A	C	B
Q.11	Q.12			
D	C			

DPP-35

Q.1	Q.2	Q.3	Q.4	Q.5
A	A	D	D	B

Q.6	Q.7	Q.8	Q.9	Q.10
A	A	C	D	D
Q.11	Q.12			
B	D			

DPP-36

Q.1	Q.2	Q.3	Q.4	Q.5
B	C	D	A	B
Q.6	Q.7	Q.8	Q.9	Q.10
A	C	D	B	A
Q.11	Q.12			
C	C			

8TH SCIENCE

DPP-1

Q.1	Q.2	Q.3	Q.4	Q.5
A	A	B	A	D
Q.6	Q.7	Q.8	Q.9	Q.10
A	C	C	D	A

DPP-2

Q.11	Q.12	Q.13	Q.14	Q.15
A	C	B	A	D
Q.16	Q.17	Q.18	Q.19	Q.20
B	D	A	A	B

DPP-3

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

DPP-8

Q.21

Q.22

Q.23

Q.24

Q.25

D

D

B

D

C

Q.26

Q.27

Q.28

Q.29

Q.30

D

B

C

C

C

DPP-9

Q.1

Q.2

Q.3

Q.4

Q.5

C

B

A

C

D

Q.6

Q.7

Q.8

Q.9

Q.10

B

A

B

B

A

DPP-10

Q.11

Q.12

Q.13

Q.14

Q.15

B

B

B

D

B

Q.16

Q.17

Q.18

Q.19

Q.20

B

B

B

A

B

DPP-11

Q.21

Q.22

Q.23

Q.24

Q.25

B

A

A

C

C

Q.26

Q.27

Q.28

Q.29

Q.30

A

C

B

A

A

DPP-12

Q.31.

Q.32

Q.33

Q.34

Q.35

B

D

C

D

D

Q.36

Q.37

Q.38

Q.39

Q.40

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

C	C	C	C	D
Q.41	Q.42	Q.43	Q.44	Q.45
D	D	D	C	C

DPP-17

Q.46	Q.47	Q.48	Q.49	Q.50
C	C	A	A	B
Q.51	Q.52	Q.53	Q.54	Q.55
D	C	A	C	B
Q.56	Q.57	Q.58	Q.59	Q.60
B	A	A	B	B

DPP-18

Q.61	Q.62	Q.63	Q.64	Q.65
A	A	D	D	A
Q.66	Q.67	Q.68	Q.69	Q.70
C	A	A	B	C
Q.71	Q.72	Q.73		
D	D	D		

DPP-19

Q.1	Q.2	Q.3	Q.4	Q.5
C	A	C	C	A
Q.6	Q.7	Q.8	Q.9	Q.10
D	B	D	A	B
Q.11	Q.12			
C	A			

DPP-20**Q.13****Q.14****Q.15****Q.16****Q.17**

B

D

D

D

D

Q.18**Q.19****Q.20****Q.21****Q.22**

B

A

C

D

B

Q.23**Q.24**

A

A

DPP-21**Q.25****Q.26****Q.27****Q.28****Q.29**

C

D

B

A

B

Q.30**Q.31****Q.32****Q.33****Q.34**

D

D

D

D

C

Q.35**Q.36**

A

D

DPP-22**Q.37****Q.38****Q.39****Q.40****Q.41**

B

D

B

A

D

Q.42**Q.43****Q.44****Q.45****Q.46**

B

A

B

C

B

Q.47**Q.48**

C

A

DPP-23**Q.1****Q.2****Q.3****Q.4****Q.5**

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

Q.1	Q.2	Q.3	Q.4	Q.5
D	C	A	D	B
Q.6	Q.7	Q.8	Q.9	Q.10
D	C	B	B	A
DPP-29				
Q.11	Q.12	Q.13	Q.14	Q.15
A	C	D	B	B
Q.16	Q.17	Q.18	Q.19	Q.20
C	B	B	A	D
DPP-30				
Q.21	Q.22	Q.23	Q.24	Q.25
A	A	A	B	D
Q.26	Q.27	Q.28	Q.29	Q.30
C	C	A	A	B