
GMAX Abacus World Cup Model Question Papers - 2027

	Elementary Level	Intermediate Level	Advanced Level
1. The student will understand the concept of a function.			
2. The student will understand the concept of a linear function.			
3. The student will understand the concept of a quadratic function.			
4. The student will understand the concept of a cubic function.			
5. The student will understand the concept of a rational function.			
6. The student will understand the concept of an exponential function.			
7. The student will understand the concept of a logarithmic function.			
8. The student will understand the concept of a trigonometric function.			
9. The student will understand the concept of a vector.			
10. The student will understand the concept of a matrix.			
11. The student will understand the concept of a determinant.			
12. The student will understand the concept of a system of linear equations.			
13. The student will understand the concept of a system of nonlinear equations.			
14. The student will understand the concept of a differential equation.			
15. The student will understand the concept of an integral equation.			
16. The student will understand the concept of a partial differential equation.			
17. The student will understand the concept of a boundary value problem.			
18. The student will understand the concept of a variational calculus.			
19. The student will understand the concept of a functional.			
20. The student will understand the concept of a metric space.			
21. The student will understand the concept of a normed space.			
22. The student will understand the concept of a Banach space.			
23. The student will understand the concept of a Hilbert space.			
24. The student will understand the concept of a topological space.			
25. The student will understand the concept of a compact set.			
26. The student will understand the concept of a connected set.			
27. The student will understand the concept of a Hausdorff space.			
28. The student will understand the concept of a separable space.			
29. The student will understand the concept of a complete metric space.			
30. The student will understand the concept of a uniform space.			
31. The student will understand the concept of a topological group.			
32. The student will understand the concept of a Lie group.			
33. The student will understand the concept of a manifold.			
34. The student will understand the concept of a Riemannian manifold.			
35. The student will understand the concept of a Kähler manifold.			
36. The student will understand the concept of a symplectic manifold.			
37. The student will understand the concept of a complex manifold.			
38. The student will understand the concept of a real manifold.			
39. The student will understand the concept of a differentiable manifold.			
40. The student will understand the concept of a smooth manifold.			
41. The student will understand the concept of a fiber bundle.			
42. The student will understand the concept of a principal bundle.			
43. The student will understand the concept of a gauge theory.			
44. The student will understand the concept of a Yang-Mills theory.			
45. The student will understand the concept of a quantum field theory.			
46. The student will understand the concept of a string theory.			
47. The student will understand the concept of a supersymmetry.			
48. The student will understand the concept of a grand unified theory.			
49. The student will understand the concept of a cosmological model.			
50. The student will understand the concept of a black hole.			
51. The student will understand the concept of a white dwarf.			
52. The student will understand the concept of a neutron star.			
53. The student will understand the concept of a pulsar.			
54. The student will understand the concept of a quasar.			
55. The student will understand the concept of a galaxy cluster.			
56. The student will understand the concept of a supercluster.			
57. The student will understand the concept of a void.			
58. The student will understand the concept of a filament.			
59. The student will understand the concept of a cosmic web.			
60. The student will understand the concept of a dark matter.			
61. The student will understand the concept of a dark energy.			
62. The student will understand the concept of a Big Bang.			
63. The student will understand the concept of a steady state model.			
64. The student will understand the concept of a cyclic universe.			
65. The student will understand the concept of a multiverse.			
66. The student will understand the concept of a parallel universes.			
67. The student will understand the concept of a quantum mechanics.			
68. The student will understand the concept of a wave-particle duality.			
69. The student will understand the concept of a Heisenberg uncertainty principle.			
70. The student will understand the concept of a Schrödinger equation.			
71. The student will understand the concept of a Dirac equation.			
72. The student will understand the concept of a Klein-Gordon equation.			
73. The student will understand the concept of a relativistic quantum mechanics.			
74. The student will understand the concept of a quantum electrodynamics.			
75. The student will understand the concept of a quantum chromodynamics.			
76. The student will understand the concept of a quantum gravity.			
77. The student will understand the concept of a string theory.			
78. The student will understand the concept of a M-theory.			
79. The student will understand the concept of a brane world.			
80. The student will understand the concept of a holographic principle.			
81. The student will understand the concept of a AdS/CFT correspondence.			
82. The student will understand the concept of a conformal field theory.			
83. The student will understand the concept of a supersymmetric quantum mechanics.			
84. The student will understand the concept of a topological quantum field theory.			
85. The student will understand the concept of a Chern-Simons theory.			
86. The student will understand the concept of a Witten index.			
87. The student will understand the concept of a Jones polynomial.			
88. The student will understand the concept of a knot theory.			
89. The student will understand the concept of a braid theory.			
90. The student will understand the concept of a quantum entanglement.			
91. The student will understand the concept of a quantum teleportation.			
92. The student will understand the concept of a quantum cryptography.			
93. The student will understand the concept of a quantum computing.			
94. The student will understand the concept of a quantum annealing.			
95. The student will understand the concept of a quantum simulation.			
96. The student will understand the concept of a quantum communication.			
97. The student will understand the concept of a quantum network.			
98. The student will understand the concept of a quantum internet.			
99. The student will understand the concept of a quantum machine learning.			
100. The student will understand the concept of a quantum artificial intelligence.			

ABACUS										1										Time Limit: 7 Minutes									
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25					

1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25
										6	1	2	2	4	4	7	5	2	7	6	7	1	1	0

ABACUS										1										Time Limit: 7 Minutes									
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25					

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GMAX Abacus World Cup Model Question Papers - 2027

Elementary Level

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Time Limit:7 Minutes

ABACUS

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

26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	41	42	43	44	45	46	47	48	49	50
										50	17	63	17	65	97	73	56	45	30	18	43	21	47	17
24	12	45	31	97	45	36	38	15	65	84	81	65	12	23	60	28	19	43	64	16	-19	52	56	14
62	29	20	34	19	65	-99	66	45	15	18	-61	75	84	23	53	-95	28	-76	65	27	49	-20	92	85
38	20	19	53	17	70	68	10	47	52	81	68	61	-52	-40	-65	41	36	33	18	84	11	21	62	62

51	52	53	54	55	56	57	58	59	60	61	62	63	64	65	66	67	68	69	70	71	72	73	74	75
59	51	2	46	1	70	79	26	16	10	41	78	17	92	82	67	83	88	43	18	66	38	17	56	5
5	-6	85	4	19	3	-5	67	-7	2	32	-33	48	3	49	8	-1	8	-1	1	9	-8	15	5	62
7	9	2	-4	8	66	4	1	8	64	9	33	9	-5	2	27	3	27	9	82	7	31	6	-6	6
51	79	4	41	8	2	25	8	56	6	3	45	35	58	8	5	31	8	5	6	45	94	5	22	2
8	4	7	-7	56	2	-7	7	1	8	-15	-8	1	10	6	98	-3	17	23	85	9	4	75	14	47
1	5	27	1	8	4	7	2	8	1	64	7	-45	-45	18	7	62	1	56	3	6	-90	9	8	4
2	-8	8	6	7	8	-8	4	-6	2	6	5	4	-4	23	37	9	9	-67	41	81	8	38	-33	11
8	-3	2	-7	6	5	-3	7	-1	5	4	-8	8	5	9	3	-71	80	-4	3	45	-1	6	-6	45

76	77	78	79	80	81	82	83	84	85	86	87	88	89	90	91	92	93	94	95	96	97	98	99	100
85	22	13	45	33	39	74	79	70	78	95	88	97	96	97	27	52	24	65	46	63	89	49	15	42
74	76	77	-60	83	79	32	93	-79	54	38	77	24	-32	53	51	74	64	-81	45	24	11	58	74	38
31	-84	97	26	67	10	-92	32	71	46	34	-40	57	21	18	44	85	40	-70	11	63	88	86	62	93
42	69	24	-26	70	83	40	91	-57	41	77	62	18	-75	48	60	-63	72	60	85	39	-19	39	-52	28
23	-20	21	37	86	14	-24	96	26	14	40	-20	35	10	56	66	15	21	69	35	77	70	77	26	33

GMAX Abacus World Cup Model Question Papers - 2027

ABACUS	Elementary Level 3	Time Limit:7 Minutes
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GMAX Abacus World Cup Model Question Papers - 2027

ABACUS	5	Time Limit:7 Minutes
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Elementary Level

ABACUS	5	Time Limit:7 Minutes
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ABACUS	5	Time Limit:7 Minutes
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GMAX Abacus World Cup Model Question Papers - 2027

Elementary Level

ABACUS 4 Time Limit:7 Minutes

1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25
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GMAX Abacus World Cup Model Question Papers - 2027

Elementary Level

ABACUS	6	Time Limit:7 Minutes
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1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25
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GMAX Abacus World Cup Model Question Papers - 2027

	Elementary Level	Juniata College
1. The student will be able to identify the major components of a system.		
2. The student will be able to describe the function of each component.		
3. The student will be able to explain the relationship between the components.		
4. The student will be able to analyze the system as a whole.		
5. The student will be able to synthesize the information into a coherent picture.		
6. The student will be able to evaluate the effectiveness of the system.		
7. The student will be able to propose improvements to the system.		
8. The student will be able to communicate the findings of the analysis.		
9. The student will be able to apply the knowledge to new situations.		
10. The student will be able to work effectively in a team.		
11. The student will be able to manage time and resources effectively.		
12. The student will be able to solve problems creatively.		
13. The student will be able to learn from experience.		
14. The student will be able to adapt to change.		
15. The student will be able to take initiative.		
16. The student will be able to work independently.		
17. The student will be able to seek help when needed.		
18. The student will be able to set goals and deadlines.		
19. The student will be able to monitor progress.		
20. The student will be able to reflect on learning.		

ABACUS										7										Time Limit: 7 Minutes									
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25					

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

1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25
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GMAX Abacus World Cup Model Question Papers - 2027

ABACUS	8	Time Limit:7 Minutes
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Elementary Level

ABACUS	8	Time Limit:7 Minutes
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ABACUS	8	Time Limit:7 Minutes
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GMAX Abacus World Cup Model Question Papers - 2027

ABACUS	9	Time Limit:7 Minutes
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ARACUS	Elementary Level	Time Limit 7 Minutes
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ABACUS	9	Time Limit:7 Minutes
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ABACUS	9	Time Limit:7 Minutes
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GMAX Abacus World Cup Model Question Papers - 2027

Elementary Level

10

Time Limit:7 Minutes

ABACUS

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

26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	41	42	43	44	45	46	47	48	49	50
										17	20	18	26	34	19	20	53	97	10	20	55	73	90	41
41	45	80	31	39	37	48	77	58	62	33	17	23	-82	14	75	64	27	14	49	47	27	31	55	-62
76	-20	62	39	24	99	10	12	42	90	22	42	82	14	66	91	41	58	24	92	-59	70	39	-10	99
-22	10	31	82	75	-44	21	49	99	56	46	45	18	89	82	-13	25	96	98	60	55	16	-40	74	34

51	52	53	54	55	56	57	58	59	60	61	62	63	64	65	66	67	68	69	70	71	72	73	74	75
93	90	7	41	4	82	30	21	13	36	36	43	45	68	31	43	79	15	55	92	38	73	74	91	4
6	-4	37	8	62	2	-2	50	-6	5	16	-5	17	3	46	8	-8	8	-1	1	8	-5	89	4	97
1	9	3	-3	6	39	6	5	9	87	3	58	4	-6	2	63	5	33	1	93	7	58	2	-1	8
17	82	7	49	8	7	44	3	77	6	-28	54	28	97	7	9	97	3	5	3	76	66	6	74	3
9	6	6	-5	13	3	-8	3	7	5	7	-5	1	69	1	76	-5	78	58	80	2	2	28	30	43
4	4	59	2	3	3	5	7	2	1	36	-71	15	-91	37	4	41	5	86	8	2	-68	2	4	7
7	-5	8	6	3	6	-7	9	-1	4	6	9	5	-1	27	11	9	6	-91	24	94	7	24	-49	73
7	-4	4	-4	2	8	-1	4	-2	6	1	-7	3	9	9	3	-71	40	-3	8	22	-8	9	-8	70

76	77	78	79	80	81	82	83	84	85	86	87	88	89	90	91	92	93	94	95	96	97	98	99	100
39	39	29	16	71	45	90	87	15	67	85	13	30	48	87	34	58	54	26	66	88	91	79	52	52
84	61	63	-34	37	94	45	57	-79	56	97	43	44	-38	50	71	-91	83	84	35	61	-86	19	-76	44
21	-72	98	17	49	23	-63	30	74	32	40	-26	64	98	90	95	53	14	-92	52	29	47	64	39	96
27	32	71	-29	33	21	33	74	-55	43	72	35	24	-85	67	90	-32	26	31	25	30	-60	61	-25	27
81	-16	92	86	94	89	-10	74	41	60	92	-72	87	16	77	43	21	39	37	16	85	76	60	55	86

ANSWERS SET 1

34	-1	46	5	42	33	5	35	7	27	31	13	56	6	51	66	15	50	21	55	50	27	58	-2	33
157	78	81	125	76	193	11	176	44	161	266	-6	-26	206	55	167	85	241	112	120	180	171	249	134	167
133	103	180	153	142	111	73	122	175	149	107	138	61	117	232	248	223	173	34	212	296	113	216	88	220
219	80	249	99	402	331	38	424	117	279	234	94	298	45	266	321	125	310	3	276	252	107	453	124	280

ANSWERS SET 2

39	11	36	-1	38	41	13	39	0	25	35	21	49	25	32	22	8	28	13	23	27	22	28	25	28
124	61	84	118	133	180	5	114	107	132	233	105	264	61	71	145	47	139	45	177	145	84	74	257	178
141	131	137	80	113	160	92	122	75	98	144	119	77	114	197	252	113	238	64	239	268	76	171	60	182
255	63	232	22	339	225	30	391	31	233	284	167	231	20	272	312	71	268	67	291	349	158	341	82	325

ANSWERS SET 3

32	12	28	4	42	42	6	37	19	37	49	10	31	-4	37	39	7	54	11	27	20	40	11	13	7
102	161	35	180	189	185	111	137	104	132	57	146	250	281	159	228	166	273	79	120	74	165	242	155	221
128	181	146	113	100	108	79	191	99	188	116	89	138	173	205	322	80	272	101	161	219	169	260	178	271
201	112	290	32	332	309	96	303	125	371	308	127	234	15	260	277	223	419	22	343	415	-63	236	187	377

ANSWERS SET 4

36	6	32	5	30	42	7	31	9	38	23	23	37	15	30	17	14	23	8	16	29	13	18	13	29
126	20	111	103	54	130	47	195	204	94	158	133	147	233	191	264	183	209	176	131	223	218	247	160	-23
178	132	124	125	164	99	48	215	120	157	157	115	62	86	202	210	134	257	23	130	214	41	269	83	288
342	4	241	153	271	337	-10	332	99	264	281	69	285	50	230	315	48	388	108	282	282	142	261	77	346

ANSWERS SET 5

35	14	26	-1	29	28	7	31	6	34	54	7	25	3	32	26	6	38	5	19	21	25	17	6	12
178	39	75	85	125	111	197	139	33	46	21	150	110	188	136	99	115	255	85	73	178	226	74	189	172
181	156	123	84	113	123	173	156	103	135	127	104	149	187	280	214	107	159	86	209	226	107	250	174	285
312	148	248	64	138	239	31	171	127	318	230	105	289	77	227	241	128	278	176	341	351	59	286	174	273

ANSWERS SET 6

43	22	39	6	37	44	-1	40	18	35	51	33	36	12	24	16	7	14	12	23	15	11	14	16	23
164	4	111	181	-5	51	126	-20	137	173	155	237	182	172	252	271	249	67	86	154	197	180	150	220	225
101	96	171	178	165	170	176	189	112	175	45	65	236	89	298	183	169	169	149	252	252	81	171	190	236
302	77	228	101	257	204	143	299	5	281	160	81	265	100	250	326	84	321	93	428	287	89	359	100	415

ANSWERS SET 7

28	6	33	3	36	43	0	45	1	40	50	12	59	7	48	33	14	34	0	14	32	14	32	18	14
194	103	229	187	34	148	99	181	179	77	52	211	299	104	166	111	238	90	164	179	180	255	162	118	4
126	90	171	135	140	175	100	123	101	214	206	43	111	54	216	219	121	250	55	263	230	65	236	197	253
250	13	321	-24	258	315	149	287	94	319	200	92	291	52	266	318	76	381	38	270	377	46	442	151	355

ANSWERS SET 8

38	19	28	-2	29	45	17	40	8	36	50	22	45	10	27	15	7	13	3	32	15	33	22	3	22
124	197	172	49	194	190	3	57	25	82	196	43	149	87	140	128	184	235	185	213	173	164	158	183	208
79	44	137	42	99	104	148	147	117	120	93	136	201	204	186	303	170	303	143	175	207	27	154	100	233
212	-31	255	32	230	162	118	295	17	193	329	65	268	198	222	413	115	356	50	271	407	117	320	116	195

ANSWERS SET 9

34	-6	18	3	26	39	6	21	17	24	39	12	54	8	34	21	10	24	13	13	27	12	16	14	17
85	40	148	3	-31	50	144	119	191	101	161	175	112	244	275	146	259	123	66	118	187	74	77	5	242
80	92	131	113	132	187	65	149	105	104	176	121	168	138	274	255	187	270	174	263	201	209	336	114	260
373	-83	252	113	200	291	82	333	85	178	258	34	256	54	277	313	41	251	84	255	281	65	353	64	254

ANSWERS SET 10

31	-1	29	18	48	39	18	46	1	47	52	12	32	5	38	12	-1	28	7	29	16	22	16	-1	31
95	35	173	152	138	92	79	138	199	208	118	124	141	47	196	172	150	234	233	211	63	168	103	209	112
144	178	131	94	101	150	67	102	99	150	77	76	118	148	160	217	147	188	110	309	249	125	234	145	305
252	44	353	56	284	272	95	322	-4	258	386	-7	249	39	371	417	90	314	49	213	368	155	360	60	340