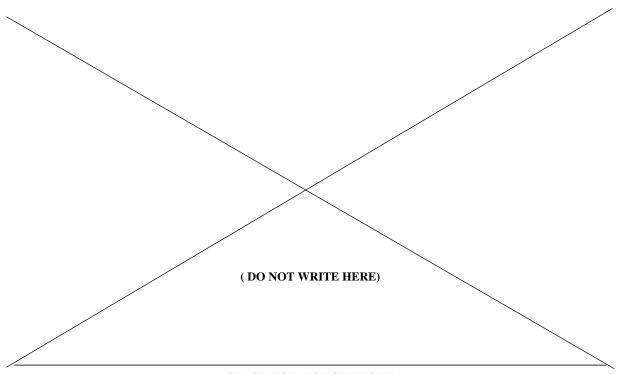
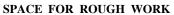
	QUESTION BOOKLET – 2016 Subject : Paper III : Mathematics	
Question Booklet Version	Roll No.	Question Booklet Sr. No.
44		
(Write this number on	Answer Sheet No.	(Write this number on
your Answer Sheet)		your Answer Sheet)
Duration: 1 Hour 30 Minutes		Total Marks : 100
This is to certify that, the entrie verified.	s of Roll Number and Answer Sheet Numbe	er have been correctly written and
Candidate's Signature		Invigilator's Signature
	Instructions to Candidates	
 Mathematics. 2. The question paper and OMR (beginning of the examination s 3. Choice and sequence for attem 4. Candidate should carefully reading the correct entries on the Answer (OMR) SYSTEM, special care taken to fill QUESTION BOOK be cross-checked by the invigila 5. Read each question carefully. 6. Determine the correct answer f 7. Fill the appropriate circle compliant only, in the OMR Answer Shee 8. Each answer with correct responses or has marked two or more answerss or has marked the circles inapp such answer/s, as these may nor computerized scanning method or verification. 9. Use of whitener or any other m striking of answers once marke 10. Rough work should be done on done on the Answer Sheet. 11. The required mathematical table 12. Immediately after the prescribe to the Invigilator. Confirm that 	pting questions will be as per the convenience the instructions printed on the Question Bookle ver Sheet. As Answer Sheets are designed to s should be taken to mark appropriate entries/answ LET VERSION, SERIAL No. and Roll No. accu- tors. The candidate must sign on the Answer S rom out of the four available options given for e- tely like this • , for answering the particular que mse shall be awarded two (2) marks . There is n - or has done scratching and overwriting in the Answer opriately e.g. half circle, dot, tick mark, cross e- ot be read by the scanner. Answer sheet of e- only (Optical Mark Reader) and there will not be a atterial to erase/hide the circle once filled is not p	o examinees separately at the of the candidate. t and Answer Sheet and make uit the OPTICAL MARK READER wers correctly. Special care should be arately. The correctness of entries has to Sheet and Question Booklet . each question. stion, with Black ink ball point pen o Negative Marking . If the examinee wer Sheet in response to any question, etc, mark/s shall NOT be awarded for each candidate will be evaluated by ny manual checking during evaluation permitted. Avoid overwriting and/or Booklet. Rough work should not be ooklet. et and Answer Sheet are to be returned on question booklet and answer sheet.





MATHEMATICS

-3-

1. If r.v. X: waiting time in minutes for bus and p.d.f. of X is given by

7. If
$$\int \frac{f(x)}{\log(\sin x)} dx = \log[\log \sin x] + c$$
, then $f(x) =$
A) $\cot x$ B) $\tan x$ C) $\sec x$ D) $\csc x$

8. If A and B are foot of perpendicular drawn from point Q (a, b, c) to the planes yz and zx, then equation of plane through the points A, B and O is _____

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SPACE FOR ROUGH WORK

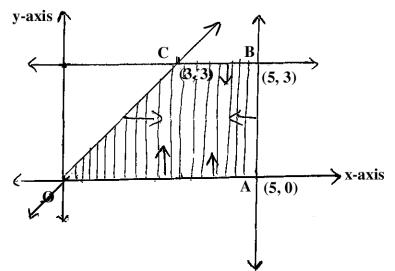
-5-

$x\overline{p} + y\overline{h} + z\overline{g} = 0$	then $(x, y, z) =$		
A) 1, 1, – 2	B) 2, 1, −3	C) 1, 3, – 4	D) 2, 3, -5

- 17. Which of the following quantified statement is true?
 - A) The square of every real number is positive
 - B) There exists a real number whose square is negative
 - C) There exists a real number whose square is not positive
 - D) Every real number is rational
- 18. The general solution of the equation $\tan^2 x = 1$ is

A)
$$n\pi + \frac{\pi}{4}$$
 B) $n\pi - \frac{\pi}{4}$ C) $n\pi \pm \frac{\pi}{4}$ D) $2n\pi \pm \frac{\pi}{4}$

19. The shaded part of given figure indicates the feasible region



then the constraints are

A) $x, y \ge 0, x + y \ge 0, x \ge 5, y \le 3$	B) $x, y \ge 0, x - y \ge 0, x \le 5, y \le 3$
C) $x, y \ge 0, x - y \ge 0, x \le 5, y \ge 3$	D) $x, y \ge 0, x - y \le 0, x \le 5, y \le 3$

20. Direction ratios of the line which is perpendicular to the lines with direction ratios -1, 2, 2 and 0, 2, 1 are

A) 1, 1, 2 B) 2, -1, 2 C) -2, 1, 2 D) 2, 1, -2

SPACE FOR ROUGH WORK

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26	If the	n d f	ofa	rv X	is	given a	S
20.	II the	p.u.1.	or a	1	10	gi von a	10

		8		
	1	$\begin{array}{c ccccccccccccccccccccccccccccccccccc$	$2 \\ 0.1$ then F(0) =	
	A) $P(X < 0)$		C) $1 - P(X > 0)$	D) $1 - P(X < 0)$
	, , , ,	, , , , , ,	, , , ,	, , ,
27.	The particular	solution of the different	ntial equation y(1 + logx	$\frac{dx}{dy} - x \log x = 0$ when
	$x = e, y = e^2$ is	5		
	A) $y = ex \log x$	$\mathbf{B} = x \log x$	C) $xy = e \log x$	D) $y \log x = ex$
28.	M and N are the	e midpoints of the diagor	nalsAC and BD respective	ly of quadrilateralABCD,
	then $\overline{AB} + \overline{AI}$	$\overline{D} + \overline{CB} + \overline{CD} = $		
	A) $2\overline{\text{MN}}$	B) $2\overline{\text{NM}}$	C) $4\overline{\text{MN}}$	D) $4 \overline{\text{NM}}$
29.	If sinx is the inte	egrating factor (I.F.) of the	linear differential equation	$\frac{dy}{dx} + Py = Q$, then Pis
	A) log sinx	B) $\cos x$	C) tan x	D) cot x
30.	Which of the f	ollowing equation does	not represent a pair of line	s ?
	A) $x^2 - x = 0$			D) $xy + x + y + 1 = 0$
31.	The joint equati	on of lines passing through	h the origin and trisecting the	first quadrant is
	A) $x^2 + \sqrt{3}xy$	$y - y^2 = 0$	B) $x^2 - \sqrt{3}xy - y^2$	= 0
	C) $\sqrt{3}x^2 - 4x^2$	$xy + \sqrt{3}y^2 = 0$	D) $3x^2 - y^2 = 0$	
32.	If $2 \tan^{-1} (\cos^{-1} \cos^{-1} \cos$	$ax) = \tan^{-1} (2 \operatorname{cosecx}) \operatorname{th}$	en sinx + cosx =	
	A) $2\sqrt{2}$	B) $\sqrt{2}$	C) $\frac{1}{\sqrt{2}}$	D) $\frac{1}{2}$

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38. If r.v. X ~ B
$$\left(n = 5, P = \frac{1}{3}\right)$$
 then P(2 < X < 4) = _____
A) $\frac{80}{243}$ B) $\frac{40}{243}$ C) $\frac{40}{343}$ D) $\frac{80}{343}$

39. The objective function $z = x_1 + x_2$, subject to $x_1 + x_2 \le 10, -2x_1 + 3x_2 \le 15, x_1 \le 6, x_1, x_2 \ge 0$ has maximum value ______ of the feasible region.

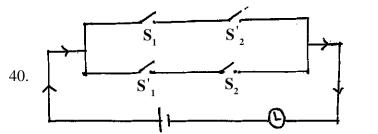
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A) at only one point

B) at only two points

C) at every point of the segment joining two points

D) at every point of the line joining two points



Symbolic form of the given switching circuit is equivalent to _____

A) $p \lor \sim q$ B) $p \land \sim q$ C) $p \leftrightarrow q$ D) $\sim (p \leftrightarrow q)$

41. Probability of guessing correctly atleast 7 out of 10 answers in a "True" or "False" test is =_____

A) $\frac{11}{64}$	B) $\frac{11}{32}$	C) $\frac{11}{16}$	D) $\frac{27}{32}$
0-	54	- •	52

42. Principal solutions of the equation $\sin 2x + \cos 2x = 0$, where $\pi < x < 2\pi$ are

A) $7\frac{\pi}{8}, 11\frac{\pi}{8}$	B) $9\frac{\pi}{8}, 13\frac{\pi}{8}$	C) $11\frac{\pi}{8}, 15\frac{\pi}{8}$	D) $15\frac{\pi}{8}, 19\frac{\pi}{8}$
0 0	5 0	5 0	0 0

SPACE FOR ROUGH WORK

44

43. If line joining points A and B having position vectors $6\overline{a} - 4\overline{b} + 4\overline{c}$ and $-4\overline{c}$ respectively, and the line joining the points C and D having position vectors $-\overline{a} - 2\overline{b} - 3\overline{c}$ and $\overline{a} + 2\overline{b} - 5\overline{c}$ intersect, then their point of intersection is

-11-

A) B B) C C) D D) A
44. If
$$A = \begin{bmatrix} 2 & 2 \\ -3 & 2 \end{bmatrix}$$
, $B = \begin{bmatrix} 0 & -1 \\ 1 & 0 \end{bmatrix}$ then $(B^{-1}A^{-1})^{-1} =$
A) $\begin{bmatrix} 2 & -2 \\ 2 & 3 \end{bmatrix}$ B) $\begin{bmatrix} 2 & 2 \\ -2 & 3 \end{bmatrix}$ C) $\begin{bmatrix} 2 & -3 \\ 2 & 2 \end{bmatrix}$ D) $\begin{bmatrix} 1 & -1 \\ -2 & 3 \end{bmatrix}$

- 45. If p: Every square is a rectangle
 - q: Every rhombus is a kite then truth values of $p \rightarrow q$ and $p \leftrightarrow q$ are _____ and ____ and _____ respectively.
 - A) F, F B) T, F C) F, T D) T, T

46. If
$$\log_{10}\left(\frac{x^2 - y^2}{x^2 + y^2}\right) = 2$$
, then $\frac{dy}{dx} =$ _____
A) $-\frac{99x}{101y}$ B) $\frac{99x}{101y}$ C) $-\frac{99y}{101x}$ D) $\frac{99y}{101x}$

47.
$$\int_{-\frac{\pi}{2}}^{\frac{\pi}{2}} \log\left(\frac{2-\sin x}{2+\sin x}\right) dx =$$
A) 1 B) 3 C) 2 D) 0
48.
$$\int \left(\frac{(x^2+2) a^{(x+\tan^{-1}x)}}{x^2+1}\right) dx =$$
A) $\log a a^{x+\tan^{-1}x} + c$ B) $\frac{(x+\tan^{-1}x)}{\log a} + c$
C) $\frac{a^{x+\tan^{-1}x}}{\log a} + c$ D) $\log a (x+\tan^{-1}x) + c$
49. The degree and order of the differential equation $\left[1+\left(\frac{dy}{dx}\right)^3\right]^{\frac{7}{3}} = 7\left(\frac{d^2y}{dx^2}\right)$ respectively are
A) 3 and 7 B) 3 and 2 C) 7 and 3 D) 2 and 3
50. The acute angle between the line $\bar{a} = \frac{(\bar{b}+2\bar{b}+\bar{b})}{2(\bar{b}+2\bar{b}+\bar{b})} = and the related$

-12-

50. The acute angle between the line $\bar{r} = (\hat{i} + 2\hat{j} + \hat{k}) + \lambda(\hat{i} + \hat{j} + \hat{k})$ and the plane $\bar{r} \cdot (2\hat{i} - \hat{j} + \hat{k}) = 5$

A)
$$\cos^{-1}\left(\frac{\sqrt{2}}{3}\right)$$
 B) $\sin^{-1}\left(\frac{\sqrt{2}}{3}\right)$ C) $\tan^{-1}\left(\frac{\sqrt{2}}{3}\right)$ D) $\sin^{-1}\left(\frac{\sqrt{2}}{\sqrt{3}}\right)$

	0	1	2	3	4	5	6	7	8	9	1	2	3	4	5	6	7	8	9
10	0000	0043	0086	0128	0170						5	9	13	17	21	26	30	34	38
						0212	0253	0294	0334	0374	4	8	12	16	20	24	28	32	36
11	0414	0453	0492	0531	0569						4	8	12	16	20	23	27	31	35
						0607	0645	0682	0719	0755	4	7	11	15	18	22	26	29	33
12	0792	0828	0864	0899	0934						3	7	11	14	18	21	25	28	32
						0969	1004	1038	1072	1106	3	7	10	14	17	20	24	27	31
13	1139	1173	1206	1239	1271						3	6	10	13	16	19	23	26	29
						1303	1335	1367	1399	1430	3	6	10	13	16	19	22	25	29
14	1461	1492	1523	1553	1584						3	6	9	12	15	19	22	25	28
						1614	1644	1673	1703	1732	3	6	9	12	14	17	20	23	26
15	1761	1790	1818	1847	1875						3	6	9	11	14	17	20	23	26
						1903	1931	1959	1987	2014	3	6	8	11	14	17	19	22	25
16	2041	2068	2095	2122	2148						3	6	8	11	14	16	19	22	24
						2175	2201	2227	2253	2279	3	5	8	10	13	16	18	21	23
17	2304	2330	2355	2380	2405						3	5	8	10	13	15	18	20	23
			2			2430	2455	2480	2504	2529	3	5	8	10	12	15	17	20	22
18	2553	2577	2601	2625	2648						2	5	7	9	12	14	17	19	21
						2672	2695	2718	2742	2765	2	4	7	9	11	14	16	18	21
19	2788	2810	2833	2856	2878						2	4	7	9	11	13	16	18	20
						2900	2923	2945	2967	2989	2	4	6	8	11	13	15	17	19
20	3010	3032	3054	3075	3096	3118	3139	3160	3181	3201	2	4	6	8	11	13	15	17	19
21	3222	3243	3263	3284	3304	3324	3345	3365	3385	3404	2	4	6	8	10	12	14	16	18
22	3424	3444	3464	3483	3502	3522	3541	3560	3579	3598	2	4	6	8	10	12	14	15	17
23	3617	3636	3655	3674	3692	3711	3729	3747	3766	3784	2	4	6	7	9	11	13	15	17
24	3802	3820	3838	3856	3874	3892	3909	3927	3945	3962	2	4	5	7	9	11	12	14	16
25	3979	3997	4014	4031	4048	4065	4082	4099	4116	4133	2	3	5	7	9	10	12	14	15
26	4150	4166	4183	4200	4216	4232	4249	4265	4281	4298	2	3	5	7	8	10	11	14	15
27	4314	4330 4487	4346	4362	4378 4533	4393 4548	4409 4564	4425 4579	4440 4594	4456	2	3	5 5	6	8	9	11	13 12	14
28	13325		4502	4518	Section		4504	4728	4594	4609 4757	2	3 3		6	8 7	9 9	10	12	14
29	4624	4639 4786	4654 4800	4669 4814	4683 4829	4698 4843	4713	4720	4742	4900	1	3	4	6	7	9	10	11	13 13
30	4914	4928	4942	4955	4969	4983	4997	5011	5024	5038	1	3	4	6	7	8	10	11	12
31 32	5051	4920 5065	4942 5079	4955 5092	4909 5105	4903 5119	5132	5145	5159	5172	1	3	4	5	7	8	9	11	12
33	5185	5198	5211	5224	5237	5250	5263	5276	5289	5302	1	3	4	5	6	8	9	10	12
34	5315	5328	5340	5353	5366	5378	5391	5403	5416	5428	1	3	4	5	6	8	9	10	11
35	5441	5453	5465	5478	5490	5502	5514	5527	5539	5551	1	2	4	5	6	7	9	10	11
36	5563	5575	5587	5599	5611	5623	5635	5647	5658	5670	1	2	4	5	6	7	8	10	11
37	5682	5694	5705	5717	5729	5740	5752	5763	5775	5786	1	2	3	5	6	7	8	9	10
38	5798	5809	5821	5832	5843	5855	5866	5877	5888	5899	1	2	3	5	6	7	8	9	10
39	5911	5922	5933	5944	5955	5966	5977	5988	5999	6010	1	2	3	4	5	7	8	9	10
40	6021	6031	6042	6053	6064	6075	6085	6096	6107	6117	1	2	3	4	5	6	8	9	10
41	6128	6138	6149	6160	6170	6180	6191	6201	6212	6222	1	2	3	4	5	6	7	8	9
42	6232	6243	6253	6263	6274	6284	6294	6304	6314	6325	1	2	3	4	5	6	7	8	9
43	6335	6345	6355	6365	6375	6385	6395	6405	6415	6425	1	2	3	4	5	6	7	8	9
44	6435	6444	6454	6464	6474	6484	6493	6503	6513	6522	1	2	3	4	5	6	7	8	9
45	6532	6542	6551	6561	6571	6580	6590	6599	6609	6618	1	2	3	4	5	6	7	8	9
46	6628	6637	6646	6656	6665	6675	6684	6693	6702	6712	1	2	3	4	5	6	7	7	8
47	6721	6730	6739	6749	6758	6767	6776	6785	6794	6803	1	2	3	4	5	5	6	7	8
48	6812	6821	6830	6839	6848	6857	6866	6875	6884	6893	1	2	3	4	4	5	6	7	8
49	6902	6911	6920	6928	6937	6946	6955	6964	6972	6981	1	2	3	4	4	5	6	7	8
49	0902	0911	0920	0920	0937	0340	0355	0304	0312	0301	1	2	3	- 4	4	0	0	1	0

LOGARITHMS

	0	1	2	3	4	5	6	7	8	9	1	2	3	4	5	6	7	8	9
50	6990	6998	7007	7016	7024	7033	7042	7050	7059	7067	1	2	3	3	4	5	6	7	8
51	7076	7084	7093	7101	7110	7118	7126	7135	7143	7152	1	2	3	3	4	5	6	7	8
52	7160	7168	7177	7185	7193	7202	7210	7218	7226	7235	1	2	2	3	4	5	6	7	7
53	7243	7251	7259	7267	7275	7284	7292	7300	7308	7316	1	2	2	3	4	5	6	6	7
54	7324	7332	7340	7348	7356	7364	7372	7380	7388	7396	1	2	2	3	4	5	6	6	7
55	7404	7412	7419	7427	7435	7443	7451	7459	7466	7474	1	2	2	3	4	5	5	6	7
56	7482	7490	7497	7505	7513	7520	7528	7536	7543	7551	1	2	2	3	4	5	5	6	7
57	7559	7566	7574	7582	7589	7597	7604	7612	7619	7627	1	2	2	3	4	5	5	6	7
58	7634	7642	7649	7657	7664	7672	7679	7686	7694	7701	1	1	2	3	4	4	5	6	7
59	7709	7716	7723	7731	7738	7745	7752	7760	7767	7774	1	1	2	3	4	4	5	6	7
60	7782	7789	7796	7803	7810	7818	7825	7832	7839	7846	1	1	2	3	4	4	5	6	6
61	7853	7860	7868	7875	7882	7889	7896	7903	7910	7917	1	1	2	3	4	4	5	6	6
62	7924	7931	7938	7945	7952	7959	7966	7973	7980	7987	1	1	2	3	3	4	5	6	6
63	7993	8000	8007	8014	8021	8028	8035	8041	8048	8055	1	1	2	3	3	4	5	5	6
64	8062	8069	8075	8082	8089	8096	8102	8109	8116	8122	1	1	2	3	3	4	5	5	6
65	8129	8136	8142	8149	8156	8162	8169	8176	8182	8189	1	1	2	3	3	4	5	5	6
66	8195	8202	8209	8215	8222	8228	8235	8241	8248	8254	1	1	2	3	3	4	5	5	6
67	8261	8267	8274	8280	8287	8293	8299	8306	8312	8319	1	1	2	3	3	4	5	5	6
68	8325	8331	8338	8344	8351	8357	8363	8370	8376	8382	1	1	2	3	3	4	4	5	6
69	8388	8395	8401	8407	8414	8420	8426	8432	8439	8445	1	1	2	2	3	4	4	5	6
70	8451	8457	8463	8470	8476	8482	8488	8494	8500	8506	1	1	2	2	3	4	4	5	6
71	8513	8519	8525	8531	8537	8543	8549	8555	8561	8567	1	1	2	2	3	4	4	5	5
72	8573	8579	8585	8591	8597	8603	8609	8615	8621	8627	1	1	2	2	3	4	4	5	5
73	8633	8639	8645	8651	8657	8663	8669	8675	8681	8686	1	1	2	2	3	4	4	5	5
74	8692	8698	8704	8710	8716	8722	8727	8733	8739	8745	1	1	2	2	3	4	4	5	5
75	8751	8756	8762	8768	8774	8779	8785	8791	8797	8802	1	1	2	2	3	3	4	5	5
76	8808	8814	8820	8825	8831	8837	8842	8848	8854	8859	1	1	2	2	3	3	4	5	5
77	8865	8871	8876	8882	8887	8893	8899	8904	8910	8915	1	1	2	2	3	3	4	4	5
78	8921	8927	8932	8938	8943	8949	8954	8960	8965	8971	1	1	2	2	3	3	4	4	5
79	8976	8982	8987	8993	8998	9004	9009	9015	9020	9025	1	1	2	2	3	3	4	4	5
80	9031	9036	9042	9047	9053	9058	9063	9069	9074	9079	1	1	2	2	3	3	4	4	5
81	9085	9090	9096	9101	9106	9112	9117	9122	9128	9133	1	1	2	2	3	3	4	4	5
82	9138	9143	9149	9154	9159	9165	9170	9175	9180	9186	1	1	2	2	3	3	4	4	5
83	9191	9196	9201	9206	9212	9217	9222	9227	9232	9238	1	1	2	2	3	3	4	4	5
84	9243	9248	9253	9258	9263	9269	9274	9279	9284	9289	1	1	2	2	3	3	4	4	5
85	9294	9299	9304	9309	9315	9320	9325	9330	9335	9340	1	1	2	2	3	3	4	4	5
86	9345	9350	9355	9360	9365	9370	9375	9380	9385	9390	1	1	2	2	3	3	4	4	5
87	9395	9400	9405	9410	9415	9420	9425	9430	9435	9440	0	1	1	2	2	3	3	4	4
88	9445	9450	9455	9460	9465	9469	9474	9479	9484	9489	0	1	1	2	2	3	3	4	4
89	9494	9499	9504	9509	9513	9518	9523	9528	9533	9538	0	1	1	2	2	3	3	4	4
90	9542	9547	9552	9557	9562	9566	9571	9576	9581	9586	0	1	1	2	2	3	3	4	4
91	9590	9595	9600	9605	9609	9614	9619	9624	9628	9633	0	1	1	2	2	3	3	4	4
92	9638	9643	9647	9652	9657	9661	9666	9671	9675	9680	0	1	1	2	2	3	3	4	4
93	9685	9689	9694	9699	9703	9708	9713	9717	9722	9727	0	1	1	2	2	3	3	4	4
94	9731	9736	9741	9745	9750	9754	9759	9763	9768	9773	0	1	1	2	2	3	3	4	4
95	9777	9782	9786	9791	9795	9800	9805	9809	9814	9818	0	1	1	2	2	3	3	4	4
96	9823	9827	9832	9836	9841	9845	9850	9854	9859	9863	0	1	1	2	2	3	3	4	4
97	9868	9872	9877	9881	9886	9890	9894	9899	9903	9908	0	1	1	2	2	3	3	4	4
98	9912	9917	9921	9926	9930	9934	9939	9943	9948	9952	0	1	1	2	2	3	3	4	4
99	9956	9961	9965	9969	9974	9978	9983	9987	9991	9996	0	1	1	2	2	3	3	3	4

ANTILOGARITHMS

0.00 0.01 0.02 0.03 0.04 0.05 0.06 0.07 0.08 0.09 0.10 0.11 0.12 0.13 0.14 0.15 0.16	0 1000 1023 1047 1072 1096 1122 1148 1175 1202 1230 1259 1288 1318 1349 1380 1413 1445	1 1002 1026 1050 1074 1099 1125 1151 1178 1205 1233 1262 1291 1321 1352 1384	2 1005 1028 1052 1076 1102 1127 1153 1180 1208 1236 1265 1294 1324 1355	3 1007 1030 1054 1079 1104 1130 1156 1183 1211 1239 1268 1297 1327	4 1009 1033 1057 1081 1107 1132 1159 1186 1213 1242 1271 1300	5 1012 1035 1059 1084 1109 1135 1161 1189 1216 1245 1274	6 1014 1038 1062 1086 1112 1138 1164 1191 1219 1247	7 1016 1040 1064 1089 1114 1140 1167 1194 1222	8 1019 1042 1067 1091 1117 1143 1169 1197	9 1021 1045 1069 1094 1119 1146 1172 1199	1 0 0 0 0 0 0 0 0 0	2 0 0 0 1 1 1	3 1 1 1 1 1 1	4 1 1 1 1 1 1 1 1 1 1	5 1 1 1 1 1 1 1	6 1 1 1 2 2 2 2 2	7 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2	8 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2	9 2 2 2 2 2 2 2 2 2 2 2 2 2 2
0.01 0.02 0.03 0.04 0.05 0.06 0.07 0.08 0.09 0.10 0.11 0.12 0.13 0.14 0.15	1047 1072 1096 1122 1148 1175 1202 1230 1259 1288 1318 1349 1380 1413	1050 1074 1099 1125 1151 1178 1205 1233 1262 1291 1321 1352	1052 1076 1102 1127 1153 1180 1208 1236 1265 1294 1324	1030 1054 1079 1104 1130 1156 1183 1211 1239 1268 1297 1327	1033 1057 1081 1107 1132 1159 1186 1213 1242 1271 1300	1035 1059 1084 1109 1135 1161 1189 1216 1245 1274	1038 1062 1086 1112 1138 1164 1191 1219	1040 1064 1089 1114 1140 1167 1194	1042 1067 1091 1117 1143 1169 1197	1045 1069 1094 1119 1146 1172	0 0 0 0 0	0 0 1 1	1 1 1 1 1	1 1 1 1 1 1	1 1 1 1 1	1 1 2 2 2	2 2 2 2 2 2 2 2	2 2 2 2 2 2 2	2 2 2 2 2 2 2
0.02 0.03 0.04 0.05 0.06 0.07 0.08 0.09 0.10 0.11 0.12 0.13 0.14 0.15	1072 1096 1122 1148 1175 1202 1230 1259 1288 1318 1349 1380 1413	1074 1099 1125 1151 1178 1205 1233 1262 1291 1321 1352	1076 1102 1127 1153 1180 1208 1236 1265 1294 1324	1054 1079 1104 1130 1156 1183 1211 1239 1268 1297 1327	1057 1081 1107 1132 1159 1186 1213 1242 1271 1300	1059 1084 1109 1135 1161 1189 1216 1245 1274	1062 1086 1112 1138 1164 1191 1219	1064 1089 1114 1140 1167 1194	1067 1091 1117 1143 1169 1197	1069 1094 1119 1146 1172	0 0 0 0	0 0 1 1	1 1 1	1 1 1 1	1 1 1 1	1 1 2 2 2	2 2 2 2 2 2	2 2 2 2 2	2 2 2 2 2
0.03 0.04 0.05 0.06 0.07 0.08 0.09 0.10 0.11 0.12 0.13 0.14 0.15	1096 1122 1148 1175 1202 1230 1259 1288 1318 1349 1380 1413	1099 1125 1151 1178 1205 1233 1262 1291 1321 1352	1102 1127 1153 1180 1208 1236 1265 1294 1324	1104 1130 1156 1183 1211 1239 1268 1297 1327	1081 1107 1132 1159 1186 1213 1242 1271 1300	1084 1109 1135 1161 1189 1216 1245 1274	1086 1112 1138 1164 1191 1219	1089 1114 1140 1167 1194	1117 1143 1169 1197	1094 1119 1146 1172	0 0 0	0 1 1 1	1 1 1	1 1 1 1	1 1 1 1	1 2 2 2	2 2 2 2 2	2 2 2 2	2 2 2 2
0.05 0.06 0.07 0.08 0.09 0.10 0.11 0.12 0.13 0.14 0.15	1122 1148 1175 1202 1230 1259 1288 1318 1349 1380 1413	1125 1151 1178 1205 1233 1262 1291 1321 1352	1127 1153 1180 1208 1236 1265 1294 1324	1130 1156 1183 1211 1239 1268 1297 1327	1132 1159 1186 1213 1242 1271 1300	1135 1161 1189 1216 1245 1274	1138 1164 1191 1219	1140 1167 1194	1143 1169 1197	1146 1172	0 0	1 1	1 1	1 1	1 1	2 2	2 2 2	2 2 2	2 2 2
0.05 0.06 0.07 0.08 0.09 0.10 0.11 0.12 0.13 0.14 0.15	1148 1175 1202 1230 1259 1288 1318 1349 1380 1413	1151 1178 1205 1233 1262 1291 1321 1352	1153 1180 1208 1236 1265 1294 1324	1156 1183 1211 1239 1268 1297 1327	1132 1159 1186 1213 1242 1271 1300	1135 1161 1189 1216 1245 1274	1138 1164 1191 1219	1140 1167 1194	1143 1169 1197	1146 1172	0	1	1	1	1 1	2 2	2 2	2 2	2 2
0.06 0.07 0.08 0.09 0.10 0.11 0.12 0.13 0.14 0.15	1175 1202 1230 1259 1288 1318 1349 1380 1413	1178 1205 1233 1262 1291 1321 1352	1180 1208 1236 1265 1294 1324	1183 1211 1239 1268 1297 1327	1159 1186 1213 1242 1271 1300	1161 1189 1216 1245 1274	1164 1191 1219	1167 1194	1169 1197	1172				1100		2	2	2	2
0.08 0.09 0.10 0.11 0.12 0.13 0.14 0.15	1202 1230 1259 1288 1318 1349 1380 1413	1205 1233 1262 1291 1321 1352	1208 1236 1265 1294 1324	1211 1239 1268 1297 1327	1213 1242 1271 1300	1216 1245 1274	1219	100 CA 10000	1.	1199	0	4		1	1	2	2		
0.09 0.10 0.11 0.12 0.13 0.14 0.15	1230 1259 1288 1318 1349 1380 1413	1233 1262 1291 1321 1352	1236 1265 1294 1324	1239 1268 1297 1327	1242 1271 1300	1245 1274	1.0.000000000	1222	1005				1						
0.09 0.10 0.11 0.12 0.13 0.14 0.15	1259 1288 1318 1349 1380 1413	1262 1291 1321 1352	1265 1294 1324	1239 1268 1297 1327	1242 1271 1300	1245 1274	1.0.000000000	10121041104	1225	1227	0	1	1	1	1	2	2	2	3
0.11 0.12 0.13 0.14 0.15	1288 1318 1349 1380 1413	1291 1321 1352	1294 1324	1297 1327	1300	PACKOR AREA	L D SRY SJOHOL	1250	1253	1256	0	1	1	1	1	2	2	2	3
0.11 0.12 0.13 0.14 0.15	1318 1349 1380 1413	1321 1352	1324	1297 1327	1300	PACKOR AREA	1276	1279	1282	1285	0	1	1	1	1	2	2	2	3
0.12 0.13 0.14 0.15	1318 1349 1380 1413	1321 1352	1324	1327	0.00000.00.	1303	1306	1309	1312	1315	0	1	1	1	2	2	2	2	3
0.13 0.14 0.15	1349 1380 1413	1352	fielina/corac	16093000	1330	1334	1337	1340	1343	1346	0	1	1	1	2	2	2	2	3
0.14 0.15	1380 1413	11.0325570224		1358	1361	1365	1368	1371	1374	1377	0	1	1	1	2	2	2	3	3
0.15	1413	1.2.2.2.11	1387	1390	1393	1396	1400	1403	1406	1409	0	1	1	1	2	2	2	3	3
	0.0510.05	1416	1419	1422	1426	1429	1432	1435	1439	1442	0	1	1	1	2	2	2	3	3
	100000000	1449	1452	1455	1459	1462	1466	1469	1472	1476	0	1	1	1	2	2	2	3	3
0.17	1479	1483	1486	1489	1493	1496	1500	1503	1507	1510	0	1	1	1	2	2	2	3	3
0.18	1514	1517	1521	1524	1528	1531	1535	1538	1542	1545	0	1	1	1	2	2	2	3	3
0.19	1549	1552	1556	1560	1563	1567	1570	1574	1578	1581	0	1	1	1	2	2	3	3	3
0.20	1585	1589	1592	1596	1600	1603	1607	1611	1614	1618	0	1	1	1	2	2	3	3	3
0.21	1622	1626	1629	1633	1637	1641	1644	1648	1652	1656	0	1	1	2	2	2	3	3	3
0.22	1660	1663	1667	1671	1675	1679	1683	1687	1690	1694	0	1	1	2	2	2	3	3	3
0.23	1698	1702	1706	1710	1714	1718	1722	1726	1730	1734	0	1	1	2	2	2	3	3	4
0.24	1738	1742	1746	1750	1754	1758	1762	1766	1770	1774	0	1	1	2	2	2	3	3	4
	1778	1782	1786	1791	1795	1799	1803	1807	1811	1816	0	1	1	2	2	2	3	3	4
0.26	1820	1824	1828	1832	1837	1841	1845	1849	1854	1858	0	1	1	2	2	3	3	3	4
.27	1862	1866	1871	1875	1879	1884	1888	1892	1897	1901	0	1	1	2	2	3	3	3	4
20.000	1905	1910	1914	1919	1923	1928	1932	1936	1941	1945	0	1	1	2	2	3	3	4	4
	1950	1954	1959	1963	1968	1972	1977	1982	1986	1991	0	1	1	2	2	3	3	4	4
	1995	2000	2004	2009	2014	2018	2023	2028	2032	2037	0	1	1	2	2	3	3	4	4
	2042	2046	2051	2056	2061	2065	2070	2075	2080	2084	0	1	1	2	2	3	3	4	4
	2089	2094	2099	2104	2109	2113	2118	2123	2128	2133	0	1	1	2	2	3	3	4	4
	2138	2143	2148	2153	2158	2163	2168	2173	2178	2183	0	1	1	2	2	3	3	4	4
	2188	2193	2198	2203	2208	2213	2218	2223	2228	2234	1	1	2	2	3	3	4	4	5
	2239	2244	2249	2254	2259	2265	2270	2275	2280	2286	1	1	2	2	3	3	4	4	5
	2291	2296	2301	2307	2312	2317	2323	2328	2333	2339	1	1	2	2	3	3	4	4	5
	2344	2350	2355	2360	2366	2371	2377	2382	2388	2393	1	1	2	2	3	3	4	4	5
100	2399	2404	2410	2415	2421	2427	2432	2438	2443	2449	1	1	2	2	3	3	4	4	5
	2455	2460	2466	2472	2477	2483	2489	2495	2500	2506	1	1	2	2	3	3	4	5	5
	2512	2518	2523	2529	2535	2541	2547	2553	2559	2564	1	1	2	2	3	4	4	5	5
	2570	2576	2582	2588	2594	2600	2606	2612	2618	2624	1	1	2	2	3	4	4	5	5
	2630	2636	2642	2649	2655	2661	2667	2673	2679	2685	1	1	2	2	3	4	4	5	6
	2692	2698	2704	2710	2716	2723	2729	2735	2742	2748	1	1	2	3	3	4	4	5	6
1222	2622222	2761	2767	2773	2780	2786	2793	2799	2805	2812	1	1	2	3	3	4	4	5	6
	623 (CA)	2825	2831	2838	2844	2851	2858	2864	2871	2877	1	1	2	3	3	4	5	5	6
	10.00.000	2891	2897	2904	2911	2917	2924	2931	2938	2944	1	1	2	3	3	4	5	5	6
2022	2951	2958	2965	2972	2979	2985	2992	2999	3006	3013	1	1	2	3	3	4	5	5	6
	3020	3027	3034	3041	3048	3055	3062	3069	3076	3083	1	1	2	3	4	4	5	6	6
	(267-257) N	3097	3105	3112	3119	3126	3133	3141	3148	3155	1	1	2	3	4	4	5	6	6

	0	1	2	3	4	5	6	7	8	9	1	2	3	4	5	6	7	8	9
0.50	3162	3170	3177	3184	3192	3199	3206	3214	3221	3228	1	1	2	3	4	4	5	6	7
0.51	3236	3243	3251	3258	3266	3273	3281	3289	3296	3304	1	2	2	3	4	5	5	6	7
0.52	3311	3319	3327	3334	3342	3350	3357	3365	3373	3381	1	2	2	3	4	5	5	6	7
0.53	3388	3396	3404	3412	3420	3428	3436	3443	3451	3459	1	2	2	3	4	5	6	6	7
0.54	3467	3475	3483	3491	3499	3508	3516	3524	3532	3540	1	2	2	3	4	5	6	6	7
0.55	3548	3556	3565	3573	3581	3589	3597	3606	3614	3622	1	2	2	3	4	5	6	7	7
0.56	3631	3639	3648	3656	3664	3673	3681	3690	3698	3707	1	2	3	3	4	5	6	7	8
0.57	3715	3724	3733	3741	3750	3758	3767	3776	3784	3793	1	2	3	3	4	5	6	7	8
0.58	3802	3811	3819	3828	3837	3846	3855	3864	3873	3882	1	2	3	4	4	5	6	7	8
0.59	3890	3899	3908	3917	3926	3936	3945	3954	3963	3972	1	2	3	4	5	5	6	7	8
0.60	3981	3990	3999	4009	4018	4027	4036	4046	4055	4064	1	2	3	4	5	6	6	7	8
0.61	4074	4083	4093	4102	4111	4121	4130	4140	4150	4159	1	2	3	4	5	6	7	8	9
0.62	4169	4178	4188	4198	4207	4217	4227	4236	4246	4256	1	2	3	4	5	6	7	8	9
0.63	4266	4276	4285	4295	4305	4315	4325	4335	4345	4355	1	2	3	4	5	6	7	8	9
0.64	4365	4375	4385	4396	4406	4416	4426	4436	4446	4457	1	2	3	4	5	6	7	8	9
0.65	4467	4477	4487	4498	4508	4519	4529	4539	4550	4560	1	2	3	4	5	6	7	8	9
0.66	4571	4581	4592	4603	4613	4624	4634	4645	4656	4667	1	2	3	4	5	6	7	9	10
0.67	4677	4688	4699	4710	4721	4732	4742	4753	4764	4775	1	2	3	4	5	7	8	9	10
0.68	4786	4797	4808	4819	4831	4842	4853	4864	4875	4887	1	2	3	4	6	7	8	9	10
0.69	4898	4909	4920	4932	4943	4955	4966	4977	4989	5000	1	2	3	5	6	7	8	9	10
0.70	5012	5023	5035	5047	5058	5070	5082	5093	5105	5117	1	2	4	5	6	7	8	9	11
0.71	5129	5140	5152	5164	5176	5188	5200	5212	5224	5236	1	2	4	5	6	7	8	10	11
0.72	5248	5260	5272	5284	5297	5309	5321	5333	5346	5348	1	2	4	5	6	7	9	10	11
0.73	5370	5383	5395	5408	5420	5433	5445	5458	5470	5483	1	3	4	5	6	8	9	10	11
0.74	5495	5508	5521	5534	5546	5559	5572	5585	5598	5610	1	3	4	5	6	8	9	10	12
0.75	5623	5636	5649	5662	5675	5689	5702	5715	5728	5741	1	3	4	5	7	8	9	10	12
0.76	5754	5768	5781	5794	5808	5821	5834	5848	5861	5875	1	3	4	5	7	8	9	11	12
0.77	5888	5902	5916	5929	5943	5957	5970	5984	5998	6012	1	3	4	5	7	8	10	11	12
0.78	6026	6039	6053	6067	6081	6095	6109	6124	6138	6152	1	3	4	6	7	8	10	11	13
0.79	6166	6180	6194	6209	6223	6237	6252	6266	6281	6295	1	3	4	6	7	8	10	11	13
0.80	6310	6324	6339	6353	6368	6383	6397	6412	6427	6442	1	3	4	6	7	9	10	12	13
0.81	6457	6471	6486	6501	6516	6531	6546	6561	6577	6592	2	3	5	6	8	9	11	12	14
0.82	6607	6622	6637	6653	6668	6683	6699	6714	6730	6745	2	3	5	6	8	9	11	12	14
0.83	6761	6776	6792	6808	6823	6839	6855	6871	6887	6902	2	3	5	6	8	9	11	13	14
0.84	6918	6934	6950	6966	6982	6998	7015	7031	7047	7063	2	3	5	6	8	10	11	13	15
0.85	7079	7096	7112	7129	7145	7161	7178	7194	7211	7228	2	3	5	7	8	10	12	13	15
0.86	7244	7261	7278	7295	7311	7328	7345	7362	7379	7396	2	3	5	7	8	10	12	13	15
0.87	7413	7430	7447	7464	7482	7499	7516	7534	7551	7568	2	3	5	7	9	10	12	14	16
0.88	7586	7603	7621	7638	7656	7674	7691	7709	7727	7745	2	4	5	7	8	11	12	14	16
0.89	7762	7780	7798	7816	7834	7852	7870	7889	7907	7925	2	4	5	7	9	11	13	14	16
0.90	7943	7962	7980	7998	8017	8035	8054	8072	8091	8110	2	4	6	7	9	11	13	15	17
0.91	8128	8147	8166	8185	8204	8222	8241	8260	8279	8299	2	4	6	8	9	11	13	15	17
0.92	8318	8337	8356	8375	8395	8414	8433	8453	8472	8492	2	4	6	8	10	12	14	15	17
0.93	8511	8531	8551	8570	8590	8610	8630	8650	8670	8690	2	4	6	8	10	12	14	16	18
0.94	8710	8730	8750	8770	8790	8810	8831	8851	8872	8892	2	4	6	8	10	12	14	16	18
0.95	8913	8933	8954	8974	8995	9016	9036	9057	9078	9099	2	4	6	8	10	12	15	17	19
0.96	9120	9141	9162	9183	9204	9220	9247	9268	9290	9311	2	4	6	8	11	13	15	17	19
0.97	9333	9354	9376	9397	9419	9441	9462	9484	9506	9528	2	4	7	9	11	13	15	17	20
0.98	9550	9572	9594	9616	9638	9661	9683	9705	9727	9750	2	4	7	9	11	13	16	18	20
0.99	9772	9795	9817	9840	9863	9886	9908	9931	9954	9977	2	5	7	9	11	14	16	18	20