

**MBA / MCA / M.E. / M.Tech / M.Arch
COMMON ENTRANCE TEST - 2025**

Information Booklet



**Association of Management of Coimbatore
Anna University Affiliated Colleges**

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1.0 GENERAL

1.1 In pursuance to the orders of the Honourable Supreme Court in the Islamic Academy of Education Vs State of Karnataka (1993) 6SCC 697, a Common Entrance Test is to be conducted by an association of colleges of a particular type in that State. **Association of Management of Coimbatore Anna University -Affiliated Colleges** where Engineering Colleges, Arts, Science and Management colleges are also members. The Association has been granted permission to conduct Common Entrance Test 2025 for MBA / MCA / M.E. / M.Tech / M.Arch courses to admit students in various Private Engineering, Arts, Science and Management colleges under the Management Quota in the state of Tamilnadu by the **"Committee to oversee the Admission made by the Association of Management of Coimbatore Anna University -Affiliated Colleges"** Coimbatore vide its Proceeding No. COA/Engineering/032/2024, Dated. 07.06.2024

1.2 **Acceptance of a person as a Candidate for writing the MBA / MCA / M.E. / M.Tech / M.Arch Common Entrance Test - 2025 does not confer on the person the right of Equivalent eligibility for admission to any of the above Courses. The decision on the eligibility of the candidates for admission to a course entirely rests with the respective admitting authorities offering the courses.**

2.0 ELIGIBILITY

2.1 The eligibility for getting admission into MBA / MCA/ M.E./ M.Tech / M.Arch is given below.

a) M.B.A. Degree Programme:

- i) A pass in a recognized Bachelor's degree of minimum 3 years duration with at least 50% (45% in case of candidates belonging to reserved category) in the qualifying examination in 10+2+3 years pattern
(or)
- ii) 10+3 years Diploma + 3 years pattern (or) B.E./B.Tech./B.Arch./B.Pharm. (or) 10+2+AMIE* (or) 10+3 years Diploma (Awarded by the State Board of Technical Education)+AMIE*

b) M.C.A. Degree Programme:

A pass in a recognized Bachelor's degree of minimum 3 years duration with Mathematics at 10+2 level or at Graduate level with at least 50% (45% in case of candidate belonging to reserved category) in the qualifying degree examination.

- i) 10+2 years HSC + 3/4 years bachelor's degree pattern.
(or)

- ii) 10+3 years Diploma + 3 years bachelor's degree pattern.
(or)
- iii) 10+2+AMIE*
(or)
- iv) 10+3 years Diploma (Awarded by the State Board of Technical Education)+AMIE*
(or)
- v) Candidate with section 'A' & 'B' Certificates and similar certificates of professional bodies.

c) M.E. / M.Tech / M.Arch Degree Programme:

Bachelor's degree or equivalent in the relevant field with at least 50% (45% in case of candidates belonging to reserved category) in the qualifying examination.

- i) B.E./ B.Tech./ B.Arch. degree programme
(or)
- ii) B.Pharm / B.Sc. (Agri. / Forestry / Horticulture / Fishery) degree programme
(or)
- iii) Master's Degree in the relevant branch of Science / Arts, which are prescribed.
(or)
- iv) M.Sc. (5 years) Integrated Degree Programme.
(or)
- v) B.Sc (3 years) in IT related major courses and M.Sc. (2 years) in IT related major courses.
(or)
- vi) MCA (3 years) after 10+2 years HSC + 3 years Bachelor's degree.

Candidates with section 'A' & 'B' certificates and other similar certificates of professional bodies or societies (e.g. A.M.I.E) recognized by the Ministry of Human Resource Development, Govt. of India are considered to be equivalent to B.E. / B.Tech. Degree holders only with 2 years regular full time Teaching experience / Industrial experience in the relevant field after passing all the subjects. An experience certificate is to be produced by the candidates.

Note:

- i) Candidates admitted through lateral entry in any other degree courses are not eligible excepting B.E. / B.Tech. degree courses
- ii) Candidates with B.E./B.Tech./M.C.A./ M.Sc. degrees obtained through week-end courses and B.E. / B.Tech. through distance mode are not eligible.
- iii) Those who are appearing for final year / semester examination of the above qualifying degree in April / May 2025 can also apply for CET 2025.

Other state candidates can write the Common Entrance Test, but eligibility conditions will be fixed by the admitting authorities.

2.2 Permission to appear for the Common Entrance Test is only an enabling provision and does not mean that the candidate satisfies all the requirements stipulated for admission to the MBA/MCA/M.E./M.Tech/M.Arch courses as listed above.

3.0 DETAILS OF ENTRANCE TEST, HALL TICKET AND MARKSHEET

3.1 The application form (Data Sheet) is common for both MBA / MCA / M.E. / M.Tech / M.Arch Common Entrance Test. Candidates have to submit one application form only. The application form (Data Sheet) for MBA/MCA/M.E./ M.Tech/M.Arch can be obtained in person on payment of Rs. 50/- (Rupees Fifty only) by cash from the Association office and MBA/MCA/M.E./M.Tech/M.Arch member colleges of the Association (Refer Website: www.coimbatoreassociation.com).

3.2 Detailed instructions and guidelines to fill applications for Common Entrance Test are given in Section 6.

3.3 Hall ticket must be brought to the Examination hall and produced for verification.

3.4 Schedule of MBA/MCA/M.E./M.Tech/M.Arch Common Entrance Test is as given in the table below:

SCHEDULE Of MBA/MCA/M.E./M.Tech/M.Arch COMMON ENTRANCE TEST - 2025			
COURSE	DATE	DAY	TIME
MBA	30.07.2025	Wednesday	10.00 a.m. to 12.00 Noon
MCA	30.07.2025	Wednesday	2.30 p.m. to 4.30 p.m.
M.E. / M.Tech / M.Arch	31.07.2025	Thursday	10.00 a.m. to 12.00 Noon

3.5 The MBA / MCA / M.E. / M.Tech / M.Arch Common Entrance Test Centres will be indicated in the Hall Ticket.

Common Entrance Test Marks will be displayed in the Coimbatore Association Website as soon as the Results are published.

Mark Sheet must be produced by the candidates at the time of admission.

4.0 Details of MBA / MCA / M.E. / M.Tech / M.Arch Common Entrance Test - 2025 Centres:

Refer Annexure -1 for the list of MBA / MCA / M.E. / M.Tech / M.Arch CET- 2025 Examination Centres (Visit the Association website www.coimbatoreassociation.com for updated list of MBA / MCA / M.E. / M.Tech / M.Arch Common EntranceTest-2025 Centres)

4.1 Every effort will be taken to comply with his/her choice of the Examination centre for the MBA / MCA / M.E. / M.Tech / M.Arch Common Entrance Test. However, for reasons like non-availability of seats, etc., another centre may be allotted. **In any case, centre once allotted cannot be altered.**

4.2 If an applicant does not receive Hall Ticket, the same can be obtained from the examination centre of his / her choice after producing the relevant proof [Xerox copy of the MBA/ MCA / M.E. / M.Tech / M.Arch CET-2025 application form (Data sheet).

4.3 Candidates will appear for the MBA / MCA / M.E. / M.Tech / M.Arch Common Entrance Test at the allotted Centres at their own cost and risk.

5.0 DETAILS OF QUESTION BOOKS AND ANSWER SHEETS

5.1 Syllabus for Entrance Test

a) MBA Degree Programme:

The Question paper will be of 5 parts with the following Assessment of Skills:

Part 1 : To evaluate the candidate's ability to pick out critically the data and apply the data to business decisions from the given typical business situations.

Part 2 : To evaluate the skill of the candidate in answering questions based on the passages in the comprehension.

Part 3 : To evaluate the skill in solving Mathematical problems at graduate level including those learnt in plus two or equivalent level.

Part 4 : To test and determine data sufficiency for answering certain questions using the data given besides the Knowledge of Mathematics and use of day-to-day facts.

Part 5 : To test the knowledge in written English with questions on errors spotting, usage, grammar, punctuation etc.,

Candidates are required to answer 100 objective type questions in 2 hours. Each question will be followed by **four probable answers**. The candidate has to choose the correct answer and shade the appropriate box against the question in the answer sheet with **HB pencil**.

b) MCA Degree Programme:

The question paper will be designed to test the capability of the candidates in the following areas:

1. Quantitative ability
2. Analytical reasoning
3. Logical reasoning
4. Computer awareness

There may also be a few questions on verbal activity, basic sciences etc. The question paper will have 100 objective type questions. Each Objective type question will have four probable answers. The candidate has to choose the correct answer and shade the appropriate box against the question in the answer sheet with HB pencil.

c) M.E./M.Tech/M.Arch Programme:

Syllabus for Entrance Test is available in the website, www.coimbatoreassociation.com

Part 1 : To evaluate the candidate's ability in Engineering Mathematics

Part 2 : To evaluate the skill of the candidate in answering questions based on the Basic Engineering & Sciences.

Part 3 : To evaluate the skill of the candidate in answering questions based on their relevant branches/courses.

5.2 Evaluation Scheme

While evaluating the answer, one mark is awarded for each correct answer. **No Negative marks will be made for incorrect answers and unanswered questions.**

The candidate is expected to attempt all the questions to secure the highest mark. In other words there is no choice among the questions.

The model questions are given in **Annexure II**. The candidate has to choose the correct answer and shade the corresponding box in the answer sheet with **HB pencil** for that question.

Wherever writing is involved use **"black ball point pen"** only.

A specimen answer sheet is given in **Annexure III**. By taking photo copies of this specimen answer sheet, the candidate can practise himself/herself before appearing for the Common Entrance Test.

During evaluation, the answer sheets are fed into a scanner. The shaded information is captured by the scanner and the details are transferred to computer for evaluation. Even a small stray Pen / Pencil mark on the sheet will be captured by the scanner which may mislead the evaluation process. When you want to make changes in the answer, erase the previous shading completely and shade the appropriate box. Shade the box fully so that alphabet printed inside completely disappears. Improper shading and light shading are likely to be missed by the scanner which may result in loss of marks.

If more than one box is shaded for a question, it will be treated as wrong answer.

The candidates are advised to shade the boxes with HB pencil, as this will help them make changes, if necessary.

The candidates will not be permitted to take home the Question Book.

6.0 INSTRUCTIONS AND GUIDELINES TO FILL APPLICATIONS

Candidates desirous of appearing for the **MBA/ MCA / M.E. / M.Tech / M.Arch Common Entrance Test - 2025** conducted by the Association should fill their applications in the prescribed format **online mode** only.

If the Candidate wants to attend both MBA & MCA Common Entrance Tests, he/she has to pay an additional Common Entrance Test fee through ONLINE ONLY for Rs.500/- (Rupees Five Hundred Only) (Rupees 50 for application and 450 for Entrance Test) (Rs. 250/- (Rupees Two Hundred Fifty only) (Rupees 50 for application and 200 for Entrance Test) for Tamil Nadu SC/ ST candidates) (Refer Table -1 of Page 6, for Fee particulars).

The completed application form (Data Sheet) along with the enclosures should be submitted online on or before 6.00 p.m. on 27.07.2025. After processing, the hall tickets can be downloaded from the association website (www.coimbatoreassociation.com)

TABLE 1 : MBA / MCA / M.E. / M.Tech / M.Arch CET - 2025 FEE PARTICULARS

NAME OF THE COURSE		TEST FEE IN RUPEES	
		Tamilnadu SC / ST	Others
1.	MBA	250*	500*
2.	MCA	250*	500*
3.	Both MBA and MCA	500*	1000*
4.	M.E. / M.Tech / M.Arch	250*	500*

*The fee includes the cost of Application and Examination Fee

IMPORTANT DATES			
1.	ISSUE OF APPLICATION FORM		30.06.2025
2.	LAST DATE FOR THE SUBMISSION OF FILLED-IN APPLICATION FORM		16.07.2025
3.	ISSUE OF HALL TICKETS		20.07.2025 onwards
4.	DATE OF MBA / MCA COMMON ENTRANCE TEST - 2025		30.07.2025
5.	DATE OF M.E / M. TECH/ M.ARCH COMMON ENTRANCE TEST - 2025		31.07.2025
6.	PUBLICATION OF RESULTS		08.08.2025

CHECK LIST TO BE VERIFIED BEFORE THE SUBMISSION OF ONLINE APPLICATION.

- ☐ Duly filled-in Data Sheet .
- ☐ Online payment for Common Entrance Test Fee.
- ☐ Attested xerox copy of their permanent community certificate issued by the competent authority from the Government of Tamil Nadu. Minority Certificate, if any is to be enclosed.

ANNEXURE I

MBA / MCA / M.E./ M.Tech / M.Arch Common Entrance Test - 2025 Centres

Name of the Colleges	
Coimbatore District Colleges	
102	Adithya Institute of Technology, Coimbatore - 641107
103	Sri Venkateswara College of Computer Applications & Management, SF 348/1, 3G Road Ettimadai, Coimbatore – 641105
104	Sri Eshwar College of Engineering, Kondampatti (P.O) Vadasithur (Via), Coimbatore - 641 202
105	Dr. Mahalingam College of Engineering and Technology, Udumalaipet Road, Pollachi - 642 003
106	Sri Krishna College of Engineering and Technology, Kuniyamuthur, Coimbatore - 641008
107	Kathir College of Engineering, 812/1, "Wisdom Tree" Avinashi Rd, Neelambur, Coimbatore - 641 062
108	Akshaya College of Engineering & Technology, Bagavathipalayam Road, Kinathukadavu, Coimbatore - 642 109
111	Ranganathan Engineering College, Viraliyur (P.O) Thondamuthur (Via), Coimbatore - 641109
112	P.A. College of Engineering & Technology, Puliyampatti, Pollachi - 642 002
113	Info Institute of Engineering, Coimbatore - 641107
114	Kalaingar Karunanidhi Institute of Technology, Coimbatore - 641402
115	Vivekananda Institute of Management Studies, Kovilpalayam, Coimbatore - 641107
116	Nehru College of Aeronautics & Applied Sciences, Coimbatore - 641 008
117	Dr.N.G.P Institute of Technology, Coimbatore - 641048
118	RVS Institute of Management Studies
119	Tamilnadu College of Engineering, Karumathampatty, Coimbatore - 641 659

121	KV Institute of Management Studies, Coimbatore - 641107 (MBA only)
122	PSG College of Arts & Science, Coimbatore - 641 014
123	Kumaraguru College of Technology, Coimbatore - 641049
124	HappyValley Business School, Coimbatore - 641105 (MBA only)
127	Sakthi Institute of Information and Management Studies, Pollachi - 641001 (MBA only)
128	Akshaya Institute of Management Studies, Othakkalmandapam, Coimbatore - 641032 (MBA only)
129	SAN B.School - Coimbatore - 641105.
Dharmapuri District Colleges	
131	Shreenivasa Engineering College - B.Pallipatti, Bommidi, Pappireddipatti, Dharmapuri - 635 301
132	Jayalakshmi Institute of Technology, NH-7, Thoppur - 636 352, Dharmapuri
133	Jayam College of Engineering &Technology, Dharmapuri - 636 813
Erode District Colleges	
134	Kongu Engineering College, Perundurai Erode - 638 052
135	Bannari Amman Institute of Technology, Alathukombai (PO), Sathyamangalam - 638 401
136	Erode Sengunthar Engineering College, Erode - 638 057
137	M.P.N.M.J Engineering College, Erode - 638 112
138	Sree Venkateshwara Hi-Tech Engineering College - Erode - 638 455
139	Velalar College of Engineering and Technology, Erode - 638 012
Karur District College	
140	M Kumarasamy College of Engineering,Thalavapalayam, Karur - 639 113

Krishnagiri District Colleges	
141	Er Perumal Manimekalai College of Engg., Hosur - 635 117
142	Adhiyamaan College of Engineering, Hosur Taluk, Krishnagiri - 635 109
Namakkal District Colleges	
143	PGP College of Engineering & Technology, Namakkal - 637 207
144	J.K.K.Nattaraja College of Engineering & Technology, Natarajapuram, NH-47, Komarapalayam - 638 183
145	Excel Engineering College, New Pallakkapalayam Village, Komarapalayam - 637 303
146	Gnanamani College of Technology, Namakkal Dt.- 637 018
147	K.S. Rangasamy College of Technology, Tiruchengode - 637 209
148	Mahendra Engineering College, Vadugapalayam PQ Tiruchengode - 637 503
149	Muthayammal Engineering College, Kakkveri PO, Namakkal - 637 408
The Nilgiris District College	
150	CSI College of Engineering, The Nilgiris - 643 215
Salem District Colleges	
151	Knowledge Institute of Technology, KIOT Campus, Kakapalayam (P.O) Salem - 637 504
152	Sona College of Technology, Salem - 636 005
153	AVS Engineering College, Ammapet, Salem - 636 003
154	The Kavery Engineering College, Mettur, Salem - 636 453
155	Sree Ganesh School of Business Management, Salem - 636 111
156	Vysya College, Salem - 636 103 (MBA / MCA only)
Tirupur District College	
157	Builders Engineering College, Nathakadaiyur, Kangeyam -638 108
Ramanathapuram District College	
158	Syed Ammal Engineering College, Ramanathapuram - 623 502

Note: Allotment of Common Entrance Test Centre depends on availability.

Please refer our website (www.coimbatoreassociation.com) for updated list of MBA / MCA / M.E. IM.Tech / M.Arch Common Entrance Test - 2025 centres.

ANNEXURE II

MODEL QUESTIONS

MBA DEGREE PROGRAMME

Section-I : Analysis of Business Situation

This section contains lengthy passages. Read the passages and also the directions before answering the question that follow the passage. The questions are of two types.

- 1) Data evaluation questions.
- 2) Data application questions.

Section-II : Reading Comprehension

This part contains reading passages. You have to read the passage carefully. Each passage will be followed by questions based on its contents. Choose the best answer to each question out of the four probable answers given.

Section-III : Problem Solving

This part evaluates the skill on solving mathematical problems of graduate level including those learnt in plus two or equivalent level.

eg : A is thrice as good a workman as B. B takes 60 days more than A to finish a piece of work. The time in which they can do it working together is :

- a) 25 days b) 30 days c) 27 days d) 22 1/2 days

Section-IV : Data Sufficiency

Each question will be followed by two statements (a) and (b). You have to determine whether the data given in the statement are sufficient for answering the questions. Use the data given, plus with your knowledge of mathematics and every day facts, to choose your answer.

Section-V : English Usage

In each of the sentences below, four words or phrases have been underlined. Select the underlined part which contains an error in usage, grammar or punctuation.

eg : She informed me that she had been ill for sometime but that she hoped to be better by summer.

- (a) (b) (c) (d)

MODEL QUESTIONS

MCA DEGREE PROGRAMME

Section-I : Quantitative Ability

This section contains mathematical problems of graduate level including those learnt in plus two or equivalent level. eg: The sum of even numbers between 1 and 31 is

- (a) 16 (b) 128 (c) 240 (d) 512

Section-II : Analytical Reasoning

This part contains problems which would test the analytical capability of the candidate.

eg: Find the next number of 4, 7, 12, 19, _____

- (a) 26 (b) 29 (c) 27 (d) 28

Section-III : Logical Reasoning

eg : If CHINA is written as 38126 and NEPAL, is 25769, how is PLAINE coded?

- (a) 971625 (b) 769125 (c) 796125 (d) 679125

Section-IV : Computer Awareness

eg : Which of the following was the first digital computer?

- (a) UNIVAC (b) ILLIAC (c) VAX II/780 (d) ENIAC

Section-V : English Usage And Basic Sciences

This section consists of questions that evaluate the knowledge of the candidate in English Language. Also questions will be asked on General Sciences

eg : Numismatics is the study of

- a) Numbers b) Coins and medals c) Weights and Measures d) Calculators

MODEL QUESTIONS

M.E/M.Tech / M.Arch DEGREE PROGRAMME

Part A

eg : the Rank of the Matrix

$$\begin{bmatrix} 1 & 1 \\ 0 & 0 \end{bmatrix} \text{ is}$$

- a) 4 b) 2 c) 1 d) 0

The trapezoidal rule for integration gives exact result when the integrand is a polynomial of degree

- a) 0 but not 1, b) 1 but not 0 c) 0 or 1 d) 2

Part B

eg: Choose the correct source of radiation for N.M.R. from the listed ones.

- (a) Klystron oscillator
(b) Globar source
(c) Radio Frequency oscillator
(d) Deuterium lamp

Part C

eg : Which of the following functionalities must be implemented by a transport protocol over and above the network protocol?

- (a) Recovery from packet losses
(b) Detection of duplicate packets
(c) Packet delivery in the correct order
(d) End to end connectivity



Annexure III
Association of Management of Coimbatore
Anna University Affiliated Colleges
MBA / MCA / M.E. / M.Tech / M.Arch Common Entrance Test - 2022
SPECIMEN ANSWER SHEET

Name of the Examination Centre	Answer Sheet Number
Signature of the Candidate : <hr/> Name of the Candidate : <hr/> I certify that I have verified the entries and shading of Register Number and the Candidate's Signature. <hr/> Signature of the Invigilator : <hr/> Name of the Invigilator : <hr/>	
Seal of the Examination Centre	

Register Number									
[1]	[1]	[1]	[1]	[1]	[1]	[1]	[1]	[1]	[1]
[2]	[2]	[2]	[2]	[2]	[2]	[2]	[2]	[2]	[2]
[3]	[3]	[3]	[3]	[3]	[3]	[3]	[3]	[3]	[3]
[4]	[4]	[4]	[4]	[4]	[4]	[4]	[4]	[4]	[4]
[5]	[5]	[5]	[5]	[5]	[5]	[5]	[5]	[5]	[5]
[6]	[6]	[6]	[6]	[6]	[6]	[6]	[6]	[6]	[6]
[7]	[7]	[7]	[7]	[7]	[7]	[7]	[7]	[7]	[7]
[8]	[8]	[8]	[8]	[8]	[8]	[8]	[8]	[8]	[8]
[9]	[9]	[9]	[9]	[9]	[9]	[9]	[9]	[9]	[9]
[0]	[0]	[0]	[0]	[0]	[0]	[0]	[0]	[0]	[0]

INSTRUCTIONS TO CANDIDATES

1. Use Ball Point Pen for writing the information.
Use HB Pencil for shading inside the brackets as shown below :

Correct Method		Wrong Method	
Q. No	Answers		
1	[a] [b] [c] [d]	1	[a] [X] [c] [d]

2. Ensure your choice before shading, if you wish to change your choice erase the pencil shading completely and shade the new brackets.
3. Do not make any stray marks inside the answer brackets as the scanner will treat it as multiple shading.

Q. No.	Answers	Q. No.	Answers	Q. No.	Answers	Q. No.	Answers
1	[a] [b] [c] [d]	26	[a] [b] [c] [d]	51	[a] [b] [c] [d]	76	[a] [b] [c] [d]
2	[a] [b] [c] [d]	27	[a] [b] [c] [d]	52	[a] [b] [c] [d]	77	[a] [b] [c] [d]
3	[a] [b] [c] [d]	28	[a] [b] [c] [d]	53	[a] [b] [c] [d]	78	[a] [b] [c] [d]
4	[a] [b] [c] [d]	29	[a] [b] [c] [d]	54	[a] [b] [c] [d]	79	[a] [b] [c] [d]
5	[a] [b] [c] [d]	30	[a] [b] [c] [d]	55	[a] [b] [c] [d]	80	[a] [b] [c] [d]
6	[a] [b] [c] [d]	31	[a] [b] [c] [d]	56	[a] [b] [c] [d]	81	[a] [b] [c] [d]
7	[a] [b] [c] [d]	32	[a] [b] [c] [d]	57	[a] [b] [c] [d]	82	[a] [b] [c] [d]
8	[a] [b] [c] [d]	33	[a] [b] [c] [d]	58	[a] [b] [c] [d]	83	[a] [b] [c] [d]
9	[a] [b] [c] [d]	34	[a] [b] [c] [d]	59	[a] [b] [c] [d]	84	[a] [b] [c] [d]
10	[a] [b] [c] [d]	35	[a] [b] [c] [d]	60	[a] [b] [c] [d]	85	[a] [b] [c] [d]
11	[a] [b] [c] [d]	36	[a] [b] [c] [d]	61	[a] [b] [c] [d]	86	[a] [b] [c] [d]
12	[a] [b] [c] [d]	37	[a] [b] [c] [d]	62	[a] [b] [c] [d]	87	[a] [b] [c] [d]
13	[a] [b] [c] [d]	38	[a] [b] [c] [d]	63	[a] [b] [c] [d]	88	[a] [b] [c] [d]
14	[a] [b] [c] [d]	39	[a] [b] [c] [d]	64	[a] [b] [c] [d]	89	[a] [b] [c] [d]
15	[a] [b] [c] [d]	40	[a] [b] [c] [d]	65	[a] [b] [c] [d]	90	[a] [b] [c] [d]
16	[a] [b] [c] [d]	41	[a] [b] [c] [d]	66	[a] [b] [c] [d]	91	[a] [b] [c] [d]
17	[a] [b] [c] [d]	42	[a] [b] [c] [d]	67	[a] [b] [c] [d]	92	[a] [b] [c] [d]
18	[a] [b] [c] [d]	43	[a] [b] [c] [d]	68	[a] [b] [c] [d]	93	[a] [b] [c] [d]
19	[a] [b] [c] [d]	44	[a] [b] [c] [d]	69	[a] [b] [c] [d]	94	[a] [b] [c] [d]
20	[a] [b] [c] [d]	45	[a] [b] [c] [d]	70	[a] [b] [c] [d]	95	[a] [b] [c] [d]
21	[a] [b] [c] [d]	46	[a] [b] [c] [d]	71	[a] [b] [c] [d]	96	[a] [b] [c] [d]
22	[a] [b] [c] [d]	47	[a] [b] [c] [d]	72	[a] [b] [c] [d]	97	[a] [b] [c] [d]
23	[a] [b] [c] [d]	48	[a] [b] [c] [d]	73	[a] [b] [c] [d]	98	[a] [b] [c] [d]
24	[a] [b] [c] [d]	49	[a] [b] [c] [d]	74	[a] [b] [c] [d]	99	[a] [b] [c] [d]
25	[a] [b] [c] [d]	50	[a] [b] [c] [d]	75	[a] [b] [c] [d]	100	[a] [b] [c] [d]