

MAIN ANSWER BOOK

168-MAT-S FY SCI
1-O-16

Main	Supplements	Total
1 +		=

168-MAT-S
168-001-01

Question	Mark	Mark after Examiner Moderator Verification	Marks after Verification.
Q. No.	Examiner Marks	Moderator Marks	
1	9		
2	8		
3	10		
4	10		
5			
6			
7			
8			
9			
10			
Total A. In	11		
Total In	12		
Total in Figure	37		
Total in Words	Thirty Seven		

* Examination :
FY JC / SYJC
Arts / Science / Commerce /
MCVC

Date : 21/10/16

Subject : Maths

Paper :

Section :

Candidate should read
Instructions on Page 2
before starting to write
the answers.

Remark :

MR JOSEPH D. KANNA

1 24 Zoom + Zoom - ← → B/W Color CONFIRM EXIT Q. Paper Mod. Ans.

Seat No. A1600001
Sticker No. 2100000
Subject EM III
Centre 4070

207003 -EM III



SEM - 4

7021229

APT - Solutions

Quality Inspection & Certifications



Certificate of Assessment

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AHMEDABAD, GUJARAT-380006, INDIA

Has been independently assessed & Found to confirm as per the Requirements of

CMMI level 5 Ver 2.0

This Certificate is valid for the Following Scope of Activities

"PROVIDING IT/ITES. RELATED PROCESS FOR SCANNING, BARCODING,
DATA PROCESSING & WEB HOSTING FOR INFORMATION TECHNOLOGY RELATED SERVICES"

(Further Clarifications regarding the scope of the applicability of standard requirements may be obtained by consulting the organization.) "This is an accredited certificate sanctioned for issue by ACCREDITATION CONFORMITY BOARD FOR CERTIFICATION BODIES (ACCB) in accordance with the requirements of ISO/IEC 17021:2011. The Validity of the certificate can be verified by checking the Directory of certified organizations maintained at the ACCB website www.accb.org")

Date of Initial Registration : 30.07.2019 Date of Issue : 02.07.2022
1st Surveillance on or Before : 01.07.2023 Done On :
2nd Surveillance on or Before : 01.07.2024 Done On :
Valid Until : 29.07.2025



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Certificate of Registration

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The Information Security Management System Standard.

ISO 27001:2013

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Certificate Number: QIC/ISMS-A-7017G
Date of Initial Registration : 30.07.2019 Date of Issue : 02.07.2022
1st Surveillance on or Before : 01.07.2023 Done On :
2nd Surveillance on or Before : 01.07.2024 Done On :
Valid Until : 29.07.2025



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AHMEDABAD, GUJARAT-380006, INDIA

Has been independently assessed & Found to conform as per the Requirements of

The Quality Management System Standard .

ISO 9001:2015

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DATA PROCESSING & WEB HOSTING FOR INFORMATION TECHNOLOGY RELATED SERVICES"

(Further Clarifications regarding the scope of the applicability of standard requirements may be obtained by consulting the organization.) "This is an accredited certificate sanctioned for issue by ACCREDITATION CONFORMITY BOARD FOR CERTIFICATION BODIES (ACCB) in accordance with the requirements of ISO/IEC 17021:2011. The Validity of the certificate can be verified by checking the Directory of certified organizations maintained at the ACCB website www.accb.org")

Certificate Number: QIC/QMS-A-12318G
Date of Initial Registration : 29.07.2019 Date of Issue : 02.07.2022
1st Surveillance on or Before : 01.07.2023 Done On :
2nd Surveillance on or Before : 01.07.2024 Done On :
Valid Until : 02.07.2025



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Concealed Evaluation System through Barcode

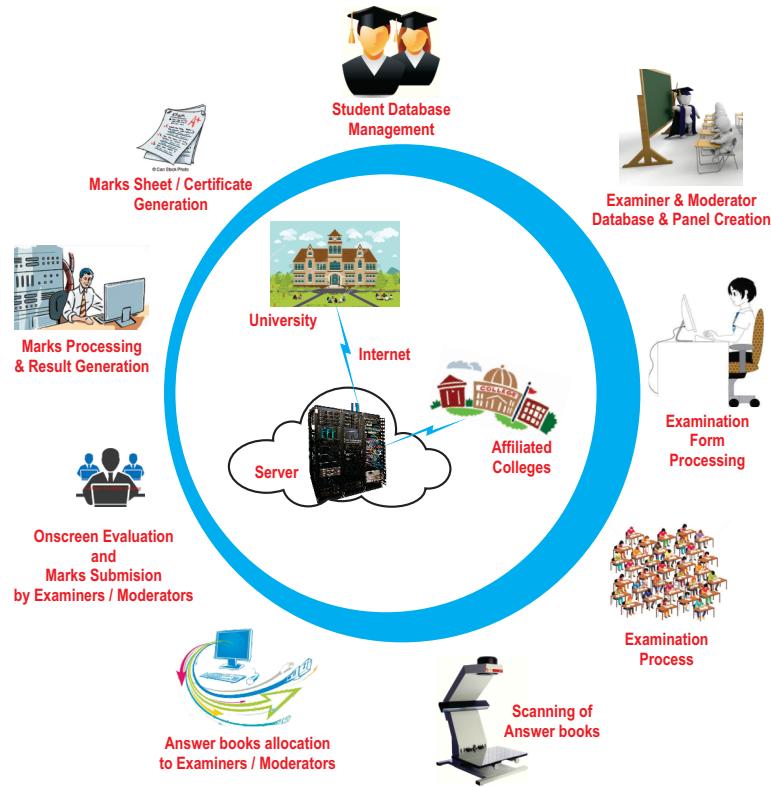
Main reasons for implementation of Concealed Evaluation System through Barcode

In the traditional examination scenario, the evaluation of the answer books is usually a long and tedious process with a lot of scope for various kinds of malpractices.

Here are a few challenges at the students and the institutes have to face during examinations:

1. Malpractices during the examinations
2. Scheduling of the exams
3. Leaking of the question paper
4. Managing the vast student data base
5. Biased/unfair answer paper evaluation
6. Delays and costs increase due to the involvement of multiple agencies during the entire process. Also achieving co-ordination between various agencies is a tough task.
7. Storing and preserving physical answer books to comply with the retention policy, leads to space constraints.

Concealed Evaluation System through barcode provides an effective at fortifying the examination process and streamlining it.



Concealed Evaluation System through Barcode

The Process :

In the Concealed Evaluation System through Barcode, at each examination, students will be supplied stickers with a barcode carrying information about their centre, seat number, and subject. Each student's sticker will be unique. The students will have to fill in their personal information on their specially designed answer books and paste the bar-coded sticker in the space provided. The personal information filled in by the students, along with the portion of the bar-coded sticker on which their seat number is printed, will then be concealed with an opaque khaki holographic sticker, leaving only the bar code visible. Similar khaki stickers are to be pasted over the personal information box on supplementary answer sheets as well.

After the examination, all the answer booklets will be sent to the institute's custodian along with form-01 (Supervisor's report). Answer books from all centers will be sent to the custodian's office where they will be segregated into lots on the basis of subject and medium. These booklets will then be affixed with a UID [universal identification number] sticker. These bar-coded stickers will carry information about the subject, section, medium of answer, lot number, and serial number of the answer books in that lot.

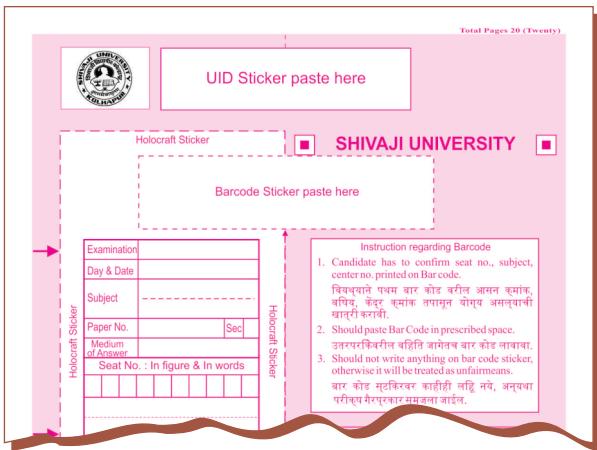
The answer book lots will then be sent to the designated examiners and moderators. A list will be maintained as to which UID lot has been sent to which examiner/moderator.

After checking the answer papers, the examiner will enter the marks, question-wise, on the front page of the answer book and send the lots back to the custodian, who will tally the lots with the list of examiners/moderators.

The answer books will then be scanned to read the candidate's number from the first bar code and the marks attained by the student will be tallied by the computer. After this, the compiled data will be forwarded to the concerned establishment and mark sheets will be printed.

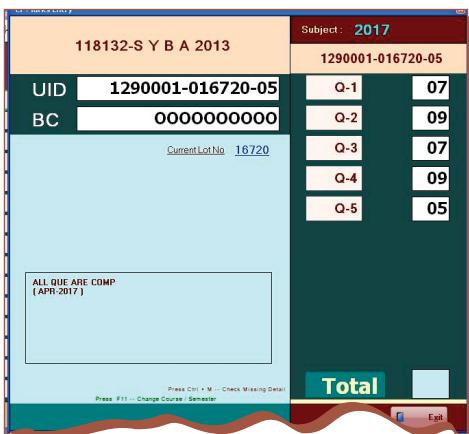


Concealed Evaluation System through Barcode



Barcode Sticker :

Barcode stickers having Seat No, sticker no., subject name and center code printed on left half side and same information in encrypted barcode on right half side. These stickers will be generated through data received from exam application form, and will be printed course wise, semester wise, subject wise, center wise.



Marks Entry & Result Processing

The Barcoded answer books are scanned using Barcode scanners and then Question wise marks and Grand Total marks are entered into the database.

Verified data is submitted to Institute for further processing at their end for final Results.

Concealed Evaluation System through Barcode

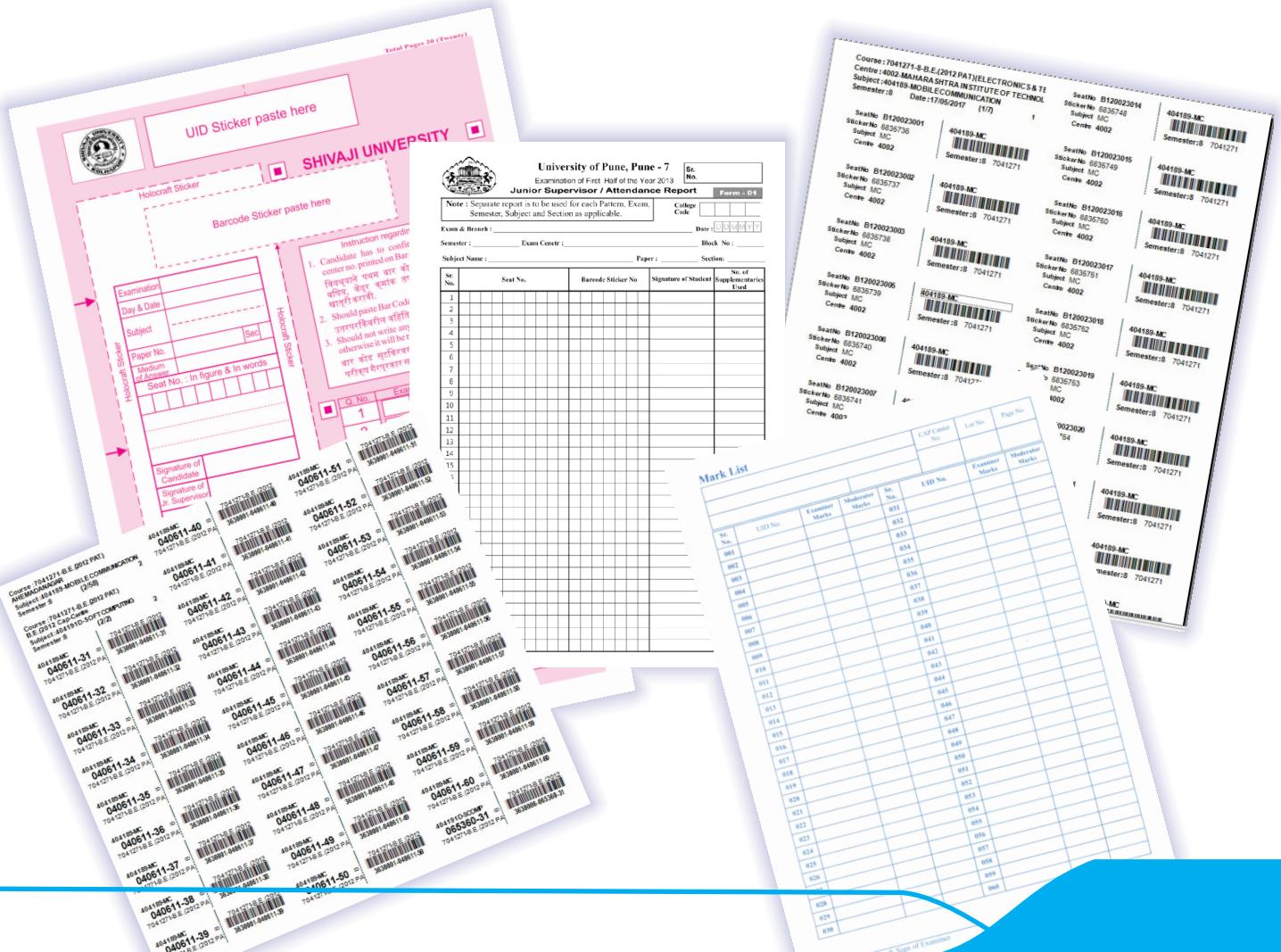
Advantages of Concealed Evaluation System through Barcode

The system ensures complete confidentiality of the student information. All the fields that can possibly reveal the student's identity to the examiner (like name, seat no., picture, etc.) will be concealed digitally. This reduces the chances of teacher-student bias mark allocation and cheating.

Crucial information like the number of answer sheets received is recorded with this system. Hence, the accountability of the answer sheets is maintained.

The data entry of marks is done question wise. Errors like allocation of more than maximum possible marks and totalling errors are identified during the time of marks data entry, hence the possibilities of future errors and the subsequent domine effect is totally curbed.

Storage and retrieval of answer books is very easy and fast with help of barcode.



Concealed Digital Evaluation System using Barcode

CDE system is designed to simplify the result process by eliminating tedious paperwork, the need to manually distribute the answer books amongst the examiners and the marks data entry. It also allows the examiner to evaluate the answer books from any location.

The process:

Concealed Digital Evaluation System (CDES) is divided into three main parts. They are as follows:

- Examination process using Barcode System
- Answer Book Scanning
- Evaluation by examiners/moderators

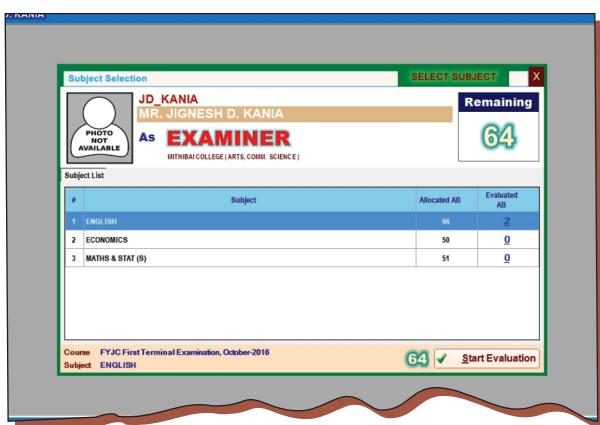
Examination process using Barcode System

An institute can avail the services of the Concealed Evaluation through Barcode system and CDE System to further streamline their examination process.



Answer Book Scanning Process

The answer books are first received from the concerned authorities of the institute. Then, the answer books are sorted subject wise. The UIDs are then pasted on the answer books which are already sorted subject wise. Job cards are generated. The answer books are then scanned with the help of a book scanner **without cutting** the answer books. The answer books are then stored subject and UID wise.



Evaluation by Examiners/Moderators

The examiners/moderators are registered in the system with their email ids and mobile numbers.

Each examiner will be sent a temporary user id and password with which they can log in the system. Along with that, a unique OTP number is also sent on their registered mobile numbers. The examiners can download the CDE system from the link provided.

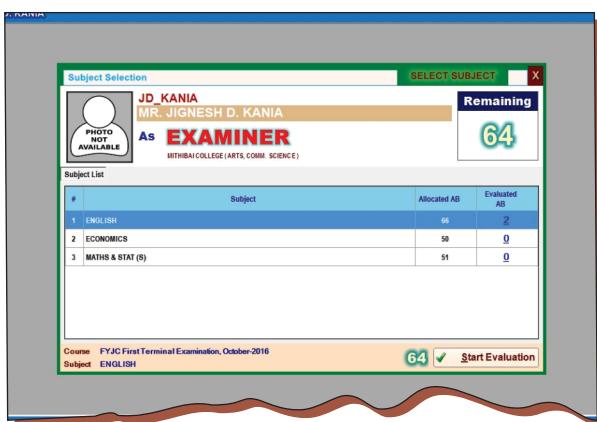
After logging in the system once, they can change their user ids and password as desired.

Concealed Digital Evaluation System using Barcode

Advantages for the Institute

In this system, the scanning of the answer sheets is done with Book Scanners. So the answer sheets are not cut. Hence, the answer sheets are always available for retrieval and call back if needed.

The system ensures complete confidentiality of the student information. All the fields that can possibly reveal the student's identity to the examiner (like name, seat no., picture, etc.) will be concealed digitally. This reduces the chances of teacher-student bias mark allocation and cheating.



Crucial information like the number of answer sheets received, the number of pages on each answer sheet, etc. is recorded with this system. Hence, the accountability of the answer sheets is maintained.

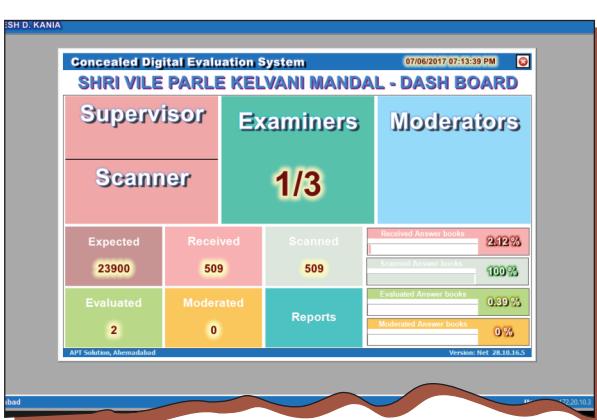
There is no need of data entry with this system. The marks allocated by the examiner are directly recorded in the server database. We thus save a lot of time and effort. Also, the possibility of the errors that can be committed during the data entry process is eliminated completely.

The examiner does not need to manually add all the marks allocated. The system will automatically add all the marks from the questions and sub-questions. This eliminates the chances of any calculation errors. The system is also equipped to handle optional question marks, exceeding marks or more than maximum marks.

In case a student wants to recheck his answer sheets, the retrieval of the answer sheet is very easy. The examiner can remove the allocated marks from the sheet and provide the images to the student. This eliminates the tedious job of manually covering the allocated marks during a re-evaluation query. This way, the re-evaluation process can also be completed at a quicker pace.

The system provides a real time dashboard as well. That way, the concerned authority can monitor every stage of the entire process closely. It will also help to identify problem areas easily so that they can be dealt with without wasting time.

With this system, the institution will save a lot of money of transportation of answer sheets. The trouble of storing the answer sheets is also done away with. The system needs very little man power and financial resources of the concerned institution.



Concealed Digital Evaluation System using Barcode

Advantages for the teachers/examiners



In the traditional evaluation process, the examiners are needed to carry the answer sheets around. Also, maintaining a record of the same (checked, unchecked) is completely eliminated. With this system, the examiners are able to evaluate the answer sheets at their own convenience and without having to worry about keeping a record. The examiner can work from home or from any place that they wish to.

One does not need to have a good knowledge of computers to use this system. Its user friendly and anyone can use it easily.

Sub. No	Q	Max Marks	Exam. Marks	Page Nos
1-A-I	1	2	1	3
1-A-II		2		
1-A-III		2		
1-A-IV		2		
1-A-V		2		
1-A-VI		2		
1-B-I		4		
1-B-II		4		
Que.1		20	1	3

Sub. No	Q	Max Marks	Exam. Marks	Page Nos
Que.1	20	12.5	3,4,5,6,	
Que.2	23	10	8,10,11	
Que.3	20	10.5	14,15,1	
Que.4	23	14.5	19,20,2	

Examiners are not needed to flip pages and memorize the marks on every page and then add them and write it on the front. The system is capable of calculating and marking it on itself.

The system automatically adds up the allocated marks. So the examiners are not needed to do the total calculation.

Our other Services

- Pre-Examination Services
- Student Data Compilation (Physical/Online)
- OMR
- Supplying/Processing of OMR sheets
- Question Bank
- Digitization of old records (Archiving)
- Data Entry Services



Our Esteem Clients

1. Savitribai Phule Pune University, Pune
2. The Maharaja Sayajirao University of Baroda, Vadodara
3. NMIMS-Narsee Monjee Institute of Management Studies (Private University), Mumbai
4. Deccan College Post-Graduate and Research Institute (Deem University), Pune
5. Shivaji University, Kolhapur
6. MIT World Peace University, Pune
7. Vishwakarma Institute of Information of Technology (Autonomous), Pune
8. Vishwakarma University, Pune
9. Bharati Vidyapeeth Deem University, Pune
10. Sir Parashurambhau College, Pune
11. Sir Vithaldas Thackersey College of Home Science (Autonomous), Mumbai
12. Shri Vile Parle Kelavani Mandal, Mumbai
13. Mithibai College of Arts, Mumbai
14. Chauhan Institue of Science, Mumbai
15. Amrutben Jivanlal College of Commerce, Mumbai
16. Narsee Monjee Junior College of Commerce, Mumbai
17. Acharya A. V. Patel Jr. College, Mumbai





Administrative Office

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Ahmedabad Branch

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