

SECTION - A

1. INTRODUCTION:

The **Central Post Graduate Admission Committee (CPAC)** was constituted vide the Government order No. ED/49/TEC/2005 dated 22-03-2005 as the State Agency to oversee smooth conduct of admissions to post graduate courses in the State of Karnataka. The Visvesvaraya Technological University, Belgaum has been entrusted by the Government vide no. ED/71/TEC/2006 dated 29-04-2006 to conduct the **Post Graduate Common Entrance Test (PGCET) -2006** in the State of Karnataka for admission to **MCA** Course.

The Karnataka PGCET - 2006 is being conducted for the purpose of determining the merit of both Karnataka and Non-Karnataka Candidates for admission to the First year, First semester of full time course in Master of Computer Applications in Government Colleges, University Departments and the seats surrendered by the private unaided institutions affiliated to the following Universities- *Bangalore, Gulbarga, Karnatak, Kuvempu, Mangalore, Mysore, Tumkur and Visvesvaraya Technological University*, within the State of Karnataka for the academic year 2006-2007. However, the Non-Karnataka candidates appearing for PGCET- 2006 are eligible for those seats available against the general category of management seats of private unaided institutions, in such cases where the institutions have surrendered their seats to CPAC.

Admissions are made in accordance with the Gazette Notification of Karnataka State Government, 2005 ('G.O.' for short) as amended from time to time and therefore the details and instructions contained in this Brochure are subject to the said G.O. In case of any discrepancy, the G.O. shall prevail.

MCA Course:

The "**Master of Computer Applications**" Course abbreviated, as **MCA** is a Full Time course of three years duration extended over six semesters.

The number of seats available for admission to MCA Course through CPAC for the year 2006 in the State of Karnataka is approximately **303**, apart from the seats that may be surrendered by the private unaided institutions.

2. DEFINITIONS:

a) **Karnataka Candidate:**

(i) "Karnataka Candidate" means a student who has studied in one or more Government or Government recognized educational institutions located in the State of

Karnataka for a minimum period of seven academic years (commencing from 1st standard up to qualifying examination either continuously or in broken period) as on 1st July of 2006 and has studied, appeared and passed the Secondary School Leaving Certificate or 10th Standard Examination or the Second Pre-University Course Examination or 12th Standard Examination in a Government or Government recognized Educational Institution located in the State of Karnataka.

Explanation – In respect of candidates who have directly appeared for SSLC or PUC or studied in Open School, the period of seven years study shall not be insisted. However, such persons shall produce domicile certificate for having studied as such for seven years.

Provided that in the case of a candidate who takes more than one year to pass a class or standard, the years of academic study is counted as one year only.

- (ii) “Karnataka Candidate” also means and includes a candidate who has studied and passed the qualifying examination within the State of Karnataka from an Educational Institution run or recognized by the State Government and either of his parents should have studied in an Educational Institution run or recognized by the State Government and located in the State of Karnataka for a minimum period of SEVEN years.

b) Ex-Serviceman:

“Ex-Serviceman” shall have the same meaning assigned to it in clause (i) of sub-rule (1) of rule 2 of the Karnataka Civil Services (General Recruitment) Rules, 1977 as amended from time to time/son or daughter of an Ex-Serviceman, who at the time of joining the Defense Service has declared a place in Karnataka as his home town and produces proof of such domicile from the Rajya Sainik Board.

c) Physically Disabled:

‘Physically Disabled’ shall have the same meaning as assigned in the Persons with Disabilities (Equal opportunities, Protection of Rights and full participation) Act, 1995 (Central Act 1 of 1996).

- d) Government Seats:** “Government Seats” means, all seats in Government Colleges, University Constituent Colleges, and Department of Studies offering MBA & MCA in the Universities of the State;

- e) **General Category Seats:** It means the seats other than the reserved seats;
- f) **Management Seats:** “Management Seats” means seats in private unaided self-financing institutions;
- g) **Admission Committee:** “Admission Committee” means the Committee constituted by the Government called ‘Central PG Admission Committee (CPAC)’ for selection of candidates for the Government seats and for the Management seats if the Managements have requested the CPAC to fill their Management quota Seats through the State level common entrance test for admission to MCA course, called Karnataka MCA PG Entrance Test (MCA PG CET) conducted by CPAC;
- h) **Reserved Seats:** “Reserved Seats” means the seats reserved in Government colleges, constituent colleges of Universities, private aided and unaided professional educational institutions in favour of persons belonging to the Scheduled Castes, the Scheduled Tribes and Other Backward Classes as may be notified by the State Government;

3. ADMISSION PROCEDURE:

In order to obtain admission to MCA course in any Institution in the State of Karnataka through PG CET Cell, a candidate shall appear for the MCA PG CET-2006 Test on **25-06-2006 (Sunday)** between **2.00 PM to 4.00 PM**. The merit of a candidate is determined solely on the marks obtained in the MCA PG CET-2006. Both Karnataka and Non-Karnataka candidates are eligible to apply for admission. However, the Karnataka Candidates for eligible for admission under the following category of seats:

- (i) Government Seats
- (ii) Management Seats (both reserved and General category), if surrendered by the private institutions

Non-Karnataka candidates are eligible for admission to Management seats (only General category).

The candidates will be allowed to select seats in the order of their merit during the seat selection process, the schedule of which will be announced along with the publication of Merit list.

IMPORTANT POINTS TO NOTE:

- Ø All candidates applying for admission are permitted to appear for the entrance test. Permission to appear for the test neither entitles the candidate for a claim to be allotted a

Rank or to be considered for admission. Subsequent to the test, if a candidate is found 'not eligible' as per eligibility criteria specified in (4) below, the candidate will not be allotted a rank.

- Ø Candidates without eligibility shall not participate in the seat selection process.
- Ø Candidates who have appeared for the final year examination are also eligible to apply for the PG CET-2006. However, they shall submit the Marks cards on or before 14-07-2006, the last date specified by PG CET Cell.

4. **ACADEMIC ELIGIBILITY: Who can apply?**

Admission is open to **Master of Computer Applications** Course for all the candidates who have passed a Bachelor Degree of minimum 3 years duration.

Admission to **Master of Computer Applications** course shall be open for the candidates who have passed the Bachelor Degree examination with not less than fifty percent of the marks in the aggregate of all the years of the degree examinations. However, in the case of candidates from Karnataka belonging to SC/ST and Category-I, the aggregate percentage of marks of all the years of the qualifying examinations shall not be less than forty-five percent.

Provided he shall have passed Bachelors Degree with not less than fifty percent of marks with Mathematics OR Statistics OR Computer Science OR Computer Programming OR Computer Applications OR Business mathematics OR Business Statistics as one of the optional or electives. However in the case of candidates belonging to SC / ST and Cat-I, the aggregate percentage of marks shall not be less than forty five percent.

Provided further that in respect of candidate who has studied and passed one of the subjects specified in the first proviso in the Pre-University Course with fifty percent of marks in that subject shall also be considered for admission. However in the case of candidates belonging to SC / ST and Cat-I, forty five percent of marks in that subject shall be considered for Admission.

Not only a candidate who has passed the qualifying examination (Q.E.) with requisite marks but also a student who has appeared for the Q.E. and who is expecting the results is also eligible to apply for the Common Entrance Test.

5. **SUBMISSION OF APPLICATION FORM:**

The application form is common to both Karnataka and Non-Karnataka Candidates seeking admission to MCA course and is available online along with this information Brochure.

INSTRUCTIONS TO APPLICANTS:

- ✓ The filled in application form and Admission Ticket (both PG CET and Candidate copies) complete in all respects should reach the office of **The Member Secretary, CPAC & Registrar, 'Jnana Sangama', VTU, Machhe, Belgaum - 590 014**, in the envelope on or before **15-06-2006**. The application is to be sent only by **Registered A/D Post or Speed Post or to be handed over in Person**. Please collect the acknowledgement slip, if handed over in person.
- ✓ For Full-Time and Part-Time MCA courses a candidate is required to apply using separate application forms.
- ✓ Confirm that you have enclosed attested copies of all relevant documents mentioned in **ENCLOSURES CHECK LIST** in Application form.
- ✓ The choice of Test Place is to be written in the box provided; however, Test centre will be allotted by the PG CET cell based on the availability of vacancy in that centre.
(See Annexure - 2 for Test Place, Test Centre Code & Address)
- ✓ Candidates whose final year marks are not available at the time of submitting application, have to submit positively the attested copy of marks card before **14-07-2006**, to become eligible for allotment of a Rank; otherwise they are considered as **'not eligible'**.
- ✓ Incomplete applications are liable to be rejected.
- ✓ Application and any other documents received after the last date specified will not be considered and PG CET Cell is not responsible for any **POSTAL DELAY**.
- ✓ The application being an important document, the candidates are required to provide complete and accurate information. Incomplete and/or false information could adversely affect his/her chances of selection and also he/she is liable for disqualification.
- ✓ The CPAC reserves the right to cancel the selection even after final seat selection and admission, if any information or part thereof furnished by the candidate is found to be false.
- ✓ In all matters relating to admission, the decision of the CPAC shall be final and binding on the applicant.
- ✓ No correspondence will be entertained from the candidate over his/her non-selection.
- ✓ Applicants have to appear for **Written Test** on **25-06-2006(Sunday)** between **2.00 PM to 4.00 PM** at the allotted Test Centre. Candidates who are not appearing for PG CET Test are not eligible for seat selection through PG CET.

- ✓ All applicants have to bring their Admission Ticket and proof of personal identification like Driving license or Voter's card or ID card of institution last attended to appear for the Test.
- ✓ The candidates appearing for the Written Test will not be paid traveling allowance.

IMPORTANT POINTS TO NOTE:

- Ø Fill in the Test Place correctly as per Annexure - 2.
- Ø Only one counseling place shall be selected
- Ø Test Place first opted by the candidate and Test Centre once allotted by PG CET can not be changed.
- Ø DO NOT FILL THE SEAT NUMBER and TEST CENTRE.
- Ø Mention clearly KARNATAKA or NON-KARNATAKA.

6. WHERE TO SUBMIT THE COMPLETED APPLICATION FORM?

The completed application form and Admission Ticket with all necessary enclosures should reach the office of **The Member Secretary, CPAC & Registrar, 'Jnana Sangama', VTU, Machhe, Belgaum - 590 014**, in the on or before **15-06-2006**. The application is to be sent only by **Registered A/D Post or Speed Post or to be handed over in Person**. Please collect the acknowledgement slip, if handed over in person.

The envelope should be clearly marked with the words 'MCA APPLICATION FORM'.

7. ASSIGNMENT OF TEST CENTRES AND DISPATCH OF ADMISSION TICKETS:

On receipt of completed application form from the candidates, PG CET Cell will assign the Test Centre and dispatch the Admission Tickets by post to the candidates. In case the Admission Ticket is not received on or before **20-06-2006**, the candidate should contact PG CET Cell by Phone/Fax or e-mail. If the Admission Ticket is not received before the test date, a candidate can attend the test if the seat number is allotted to him/her in the list displayed on the website <http://www.vtu.ac.in/pgcet> one day before the Test.

8. DETERMINATION OF MERIT:

The candidates will be allowed to select seats in the order of their merit during the seat selection process. Merit lists shall be prepared as follows:

- a) '**Common Rank List (CRL)**' consisting of all the eligible candidates to be prepared based solely on the marks obtained in the MCA PG CET-2006.
- b) **Karnataka Rank List (KRL)** to be prepared from the **Common Rank List** by extracting the candidates, who qualify under Karnataka candidate as per definition 2(a).

- c) Where the merit of two or more candidates is the same, the inter-se merit shall be determined with reference to the marks obtained in the qualifying examination and the candidate securing higher marks in the qualifying examination placed above the candidates securing lower marks in the qualifying examination.
- d) Where the merit of two or more candidates is equal after determining the merit under clause (b), the inter-se merit shall be determined on the basis of the age of the candidate, with the elder candidates placed above the younger.

NOTE:

- (i) The schedule of seat selection process, Counseling Center addresses will be announced along with the publication of Merit list.
- (ii) Mere assigning of merit to a candidate does not confer any right to him/her to select a seat.

9. ALLOCATION OF SEATS:

The allocation of seats shall be done as per the Seat Matrix published by the Govt. There shall be both general Category & Reserved seats under Govt. Seats as well as Management Seats (if any surrendered by Private Unaided institutions).

- (i) The Government Seats and reserved category seats under Management Seats shall be allotted by operating the **Karnataka Rank List (KRL)**;
- (ii) The General category seats under Management Seats shall be allotted by operating the **Common Rank List (CRL)**.

10. RESERVATION OF SEATS IN FAVOUR OF CERTAIN CATEGORIES:

(1) Seats shall be reserved under Government Seats and Management Seats in favour of the following categories of candidates to the extent specified by Government, from time to time.

(a) Candidates belonging to the Scheduled Caste, the Scheduled Tribes and Other Backward Classes of citizens under Categories I, II-A, II-B, III-A, III-B in accordance with G. O. No. SWL 251 BCA 94, dated: 31-01-1995.

(b) Candidate who is a son or daughter of an Ex-serviceman.

(c) Candidates who are Physically Disabled.

(2) Inter-se merit shall be the basis for selection under this rule.

(3) The original documents of the candidates claiming reservation under any of the categories shall be subject to certification and confirmation at the time of admission.

SECTION - B

1. SYLLABUS:

The Syllabus and Model Question Paper of MCA entrance Test are provided in Annexure - 3. The indicated percentage of topics and Model question Papers are representative samples only. The actual may vary from Question Paper to Question Paper.

2. QUESTION PAPERS AND DURATION:

Model Question Paper is based on the specified syllabus for the Common Entrance Test with the following guidelines:

- a. The Common Entrance Test shall be of two hours duration.
- b. The maximum marks shall be 100.
- c. All the questions shall be of objective type with varying degree of difficulty.
- d. The question paper shall have two parts - A and B
 - Part - A shall consist of Test of English Language and General Knowledge with equal weightage. The test of English would cover all aspects of English Language. The test of General Knowledge would cover questions pertaining to the current affairs and the knowledge about the political, economical, social, cultural, historical and business aspects.
 - Part - B shall consist of Test of Reasoning and Quantitative Skills with equal weightage. This section shall cover logical, analytical, verbal and mathematical skills.
- e. There shall be no negative marking for wrong answers.
- f. All questions shall be compulsory.
- g. Use of calculator shall not be permitted.

3. RESPONSE SHEET: Marking the OMR Sheet

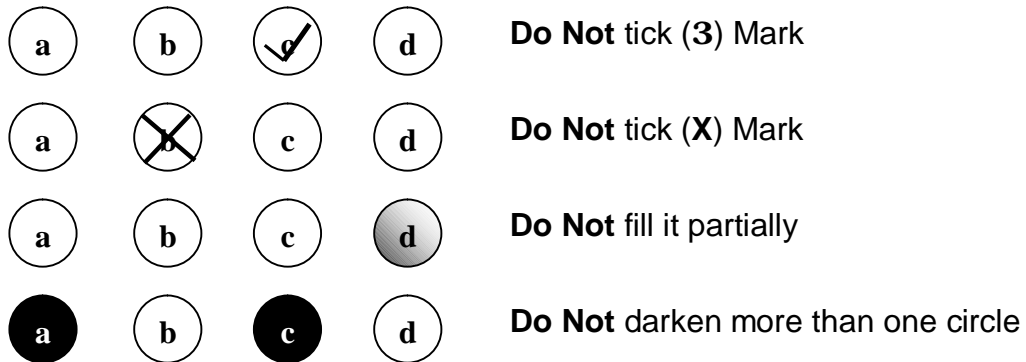
- The candidate shall answer in the Response Sheet provided for the answering purpose.
- Revaluation of Response sheet is NOT PERMITTED.
- Candidate should mark the OMR sheet with **Black Ball Pen / Dark Pencil**.
- How to answer in the OMR sheet?

∅ Completely darken the circle corresponding to the correct answer

For Example: If 'b' is correct answer darken the corresponding circle completely



Ø Wrong way of marking. DO NOT mark the OMR sheet as follows



Important Note:

If a candidate has applied for both MBA & MCA courses & if the centres allotted to the candidate for these courses happen to be different, provision is made to allow the candidate to write the MCA test in the same centre. However, the candidate has to write the MCA test with the MCA seat number allotted to him / her.

SECTION - C

1. DOCUMENTS TO BE PRODUCED DURING SEAT SELECTION:

All Candidates have to compulsorily produce their admission ticket at the time of counseling. Apart from this, the following original documents are required to be produced:

- a. SSLC Marks Card
- b. PUC Marks Card
- c. All Degree Marks Cards
- d. Valid Caste Certificate obtained under rule 7 of the Karnataka Scheduled Castes, Scheduled Tribes and Other Backward Classes (Reservation of appointment etc.) Rules 1992
- e. Income Certificate, if claiming admission under Caste reservation category.
- f. Authentic documents certified by the Tahashildar / Competent Authority for claiming admission under Caste reservation category.
- g. Study Certificate:
 - i. Seven year study certificate issued by Head Master / Principal, Primary or High School with Counter signed by Block Education Officers; OR
 - ii. Seven year study certificate issued to "Grameena Abyarathi" Counter signed by Block Education Officers.

If a candidate fails to produce a valid Study certificate, he/she is considered under Non - Karnataka Category.

- h. Relevant Domicile certificate in the case of candidates claiming seat reserved under Ex-Serviceman category.
- i. Physical Disability certificate in case of candidates claiming seat reserved under Physically Disabled category.

Note: (a) Immediately after verification, all the original certificates will be returned to the candidate.

(b) When the required original documents are not produced as specified above, such applications are liable for rejection.

(c) Where a candidate or his parents or guardians furnishes false or incorrect marks card or a statement of marks or a certificate or an affidavit filed along with the application, such

application shall be liable for rejection and the candidate and their parents or guardians, as the case may be, shall also render themselves for civil and criminal action.

2. ADMISSION FEE:

Candidates called for MCA Counseling shall bring a **crossed Demand Draft** for Rs. 55,000/- which is the first year tuition fee, drawn in favour of **Member Secretary, CPAC** payable at **Belgaum**. Tuition fee is subjected to change as per Karnataka Govt. orders from time to time. Other fees like University Registration fee, Eligibility fee etc. as approved by the Government and the respective Universities shall be paid in the respective institutions at the time of admission.

3. PROCEDURE OF SEAT SELECTION BY THE CANDIDATES:

The seat selection process will be facilitated in different Counseling Centers connected by a high-speed data network through Video conferencing mode. The candidate shall appear for counseling at his/her choice of counseling place specified by him/her in the application. The selection of seat by a candidate and admission there after shall comprise of the following steps:

- i) Registration of the Candidate at counseling centre
- ii) Verification of the documents
- iii) Exercising the option by candidates (Selection of seats in accordance with merit order) at the counseling centre where the availability of seat is displayed using a projector linked to a computer which is programmed to account for the ongoing selection and balance seats available institution-wise as per the seat matrix.
- iv) The candidate shall make payment of admission fee as specified in (2) above at the fee payment counter.
- v) The candidate shall collect a provisional Admission Order signed by the Member Secretary, CPAC.
- vi) Candidates can proceed to the allotted Institution and report there within the last date specified for admission.

4. ALLOTMENT OF SEATS AND CONVERSION OF UNFILLED SEATS:

1) The Government Seats and reserved category seats under Management Seats: For allotment of seats under this category, there shall be a First round followed by a casual round of seat selection allowing the candidates to choose their seat.

v I Round

- a. The **Karnataka Rank List** shall be used to allot seats for candidates

- b. Then, using the same Rank List, seats are allotted to eligible candidates under respective reserved categories.

✓ **Casual Round**

The seats remaining vacant under reserved categories after **I Round** shall be merged with the General category seats. The number of seats available will be notified on the website www.vtu.ac.in and candidates who have been allotted a merit and who have either selected/not selected a seat in the **I Round** or not attended the **I Round** may attend the **Casual Round** counseling on scheduled dates notified along with the Rank List publication. The **Karnataka Rank List** will be used to allot seats in this round.

Who is Eligible to attend counseling?

- Ø All Karnataka candidates who have a rank are eligible to attend **I Round stage (a)** of Counseling.
- Ø ONLY SC/ST, OBC, and candidates claiming seat under Ex-Serviceman & PD category are eligible to attend **I Round stage (b)** counseling.
- Ø The candidates eligible for **Casual Round** is any one who has a rank in the **Karnataka Rank List** and
 - who has attended & selected / not selected a seat in I Round or
 - Who has remained absent in **I Round**.

2) The General category seats under Management Seats:

For allotment of seats under this category, there shall be only one round of seat selection for the candidates to choose their seat and the **Common Rank List** shall be used to allot seats for candidates.

Who is Eligible to attend counseling?

- Ø All candidates who have a rank are eligible to attend the Counseling.

IMPORTANT POINTS TO NOTE:

- Ø **No separate individual intimation will be sent to the candidates for attending the seat selection. The Counseling Place/Places and schedule will be notified at the time of publication of Merit List.**
- Ø Candidate can attend Counseling at any **ONE** counseling Place opted in the application.
- Ø All original certificates are required to be produced at the time of Counseling. Candidates should get their originals verified strictly on the date indicated in the schedule published

along with Merit List, failing which the candidate will lose his/her claim to attend the seat selection process.

- Ø Those who are claiming concession under SC/ ST/ Cat-I and other category (Children of Ex-servicemen/Physically Disabled) should specify the Category/sub-category with authentic documentary support. If adequate information is not supplied in this regard, the candidates claim for concession will not be entertained.
- Ø The candidates appearing for the Counseling will not be paid traveling allowance.

5. REFUND AND FORFEITURE OF FEE:

No claim for refund of fees from the PG CET Cell will be entertained after one week of the date specified in the provisional admission order for joining the institute. For claiming refund of fee paid, following documents are to be submitted.

- i) Original Provisional Admission order
- ii) Original Fee Receipt
- iii) Application for refund with Clear & complete correspondence address.

On receipt of all the above documents, the tuition fee paid will be refunded after deducting Rs. 1000/- towards processing charges.

6. CHANGE OF COLLEGE AND MUTUAL EXCHANGE:

The PG CET Cell does not entertain any requests for change of Institution at any stage, once the candidate has confirmed his seat at the Computer Terminal during the seat selection, as sufficient flexibility has been built into the seat selection process. Further, mutual change of seats among candidates is also not permitted.

ANNEXURE - 1

Schedule for MCA Admissions (2006-2007)

1. Date of Notification calling Applications	31-05-2006
2. Commencement of issue of Application	31-05-2006
3. Last date for issue of Applications	12-06-2006
4. Last date for receipt of completed Applications	15-06-2006
5. Candidate Seat No. & Test Centre to be displayed on website www.vtu.ac.in	17-06-2006
6. Last date to contact PG CET cell, if Admission Ticket is not received by the Candidate OR if seat number is not generated as per the list on website	20-06-2006
7. Date of test(The MCA Entrance Test is rescheduled)	
Earlier date	25-06-2006
Rescheduled Date	01-07-2006 (2.00 PM to 4.00 PM)
8. Last date to submit all marks cards to PG CET cell (in case final year results are awaited)	14-07-2006
9. Declaration of ranks	18-07-2006
10. Seat selection Process (Tentative)	21-07-2006 to 31-07-2006
11. Commencement of I semester classes	16-08-2006

Note: The verification of documents and Seat Selection process begin at 9.00 am every day and the schedule and Place will be notified at the time of Merit List Publication.

ANNEXURE - 2
TEST CENTRES

Sl. No.	Test Place	Test Centre Address	College Code
1	Bagalkot	Basaveshwar Engineering College, P B No. 53, Bagalkot – 587 102 Phone No.: (08354) 234060	BA
2	Bangalore	B.M.S College of Engineering, Post Box No. 1908, Bull Temple Road, Bangalore – 560 019 Phone No.: (080) 26622131	BM
3	Bangalore	Bangalore Institute of Technology, K.R. Road, V.V. Puram, Bangalore – 560 004 Phone No.: (080) 6613237	BI
4	Bangalore	Dayananda Sagar College of Engineering, Shavige Mallesha Hills, Kumaraswamy Layout, Bangalore – 560 078 Phone No.: (080) 26662226	DS
5	Bangalore	Dr. Ambedkar Institute of Technology, BDA Outer Ring Road, Near Jnana Bharathi Bangalore – 560 056 Phone No.: (080) 3217789, 3218534,	DA
6	Bangalore	M.S. Ramaiah Institute of Technology, Vidya Soudha, M.S. Ramaya Nagar, MSRIT Post, Bangalore – 560 054 Phone No.: (080) 3603124	MS
7	Bangalore	Vemana Institute of Technology, No. 1, 100 Feet Road, 3 rd Block, Koramangala Bangalore - 560 034	VM

		Phone No.: (080) 5529874	
Sl. No.	Test Place	Test Centre Address	College Code
8	Belgaum	Raja Lakhamagouda Science Institute, Belgaum – 590 001 Phone No.: (0831) 2420435	LS
9	Bellary	Vijaynagar Engineering College, Cantonment, Bellary – 583 104 Phone No.: (08392) 245328	VC
10	Bijapur	BLDEA's College of Engineering & Technology, Bijapur – 586 103 Phone No.: (08352) 261120, 261130	BL
11	Davangere	Bapuji Institute of Engineering & Technology, Post Box No. 325, Davangere – 577 004 Phone No.: (08192) 222245, 221461	BD
12	Dharwad	S D M College of Engineering & Technology, Dhavalagiri, DHARWAD-580 002	SD
13	Gulbarga	P.D.A. College of Engineering, Gulbarga -585 104 Phone No.: (08472) 224360, 220172	PD
14	Hubli	BVB College of Engineering & Tech, Vidyanagar, Hubli – 580 031 Phone No.: (0836) 2378101, 2374150	BV
15	Mangalore	University College, (Former Government College), Hampankatta, Mangalore – 575 001 Phone.: 2424760	MZ
16	Mysore	The National Institute of Engineering, Manandavadi Road,	NI

		Mysore – 570 008 Phone No.: (0821) 2481220, 2480475	
Sl. No.	Test Place	Test Centre Address	College Code
17	Mysore	University of Mysore Dept. of Studies in Computer Science Manasagangotri Mysore – 570 006 Phone No.: (0821) 2510789	UM
18	Shimoga	Sahyadri Science College, B.H.Road – Vidyanagar, Shimoga – 577203 Phone No.: (08182) 240435	SZ
19	Tumkur	Siddaganga Institute of Technology, Tumkur – 572 103 Phone No.: (0816) 2282990, 91, 92, 93	SI

ANNEXURE - 3

MCA SYLLABUS AND MODEL QUESTION PAPER

The question paper shall comprise of 80 questions to be answered in 2 hours time. All the questions are of objective type with 4 choices for the answer out of which only one shall be correct, which the candidate has to mark. There shall be two parts A & B. Part - A shall consist of 60 questions of 1 mark each and Part - B shall consist of 20 questions of 2 marks each covering the full syllabus. If a question has not been attempted, no credit will be given. The syllabus shall comprise of the following broad areas:

Sl. No.	Subject		Marks
1	Mathematics	-	40
2	Computer Awareness	-	20
3	Analytical Ability & Logical Reasoning	-	15
4	General Awareness	-	10
5	General English	-	15
	Total	-	100

1. Mathematics

Algebra: Fundamental operations in Algebra, Expansion, Factorization, Simultaneous Linear / Quadratic equations, Indices, Logarithms, Arithmetic, Geometric and Harmonic progressions, Binomial theorem, Permutations and Combinations, Surds, Determinants, Matrices and application to solution of simultaneous linear equations

Co-Ordinate Geometry: Rectangular Cartesian co-ordinates, Equations of Line, Mid-point, Intersections etc., Equations of a Circle, Distance formulae, Pair of straight lines, Parabola, Ellipse and Hyperbola, Simple Geometric transformations such as Translation, Rotation, Scaling.

Vector: Position vector, Addition and Subtraction of Vectors, Scalar and Vector products.

Trigonometry: Simple identities, Trigonometric equations, Properties of triangles, Inverse function.

Probability and Statistics: Basic concept of Probability theory, Averages, Dependent and Independent events, Frequency distributions and measures of dispersions, Skewness and Kurtosis, Random variable and Distribution functions, Mathematical Expectations, Binomial, Poisson, Normal distributions, Curve fitting and Principle of Least Squares, Correlation and Regression.

2. Computer Awareness

Computer Basics: Organization of a Computer, Central Processing Unit (CPU), Input/ Output devices, Computer memory, Back-up devices, Computer Languages, Operating Systems.

Data Representation: Representation of Characters, Integers and Fractions, Binary and Hexadecimal representations, Binary arithmetic: Addition, Subtraction, Multiplication, Division, Two's complement arithmetic, Floating-point representation of numbers, Normalized Floating-point representation.

3. Analytical Ability and Logical Reasoning:

The question in this section will cover Logical reasoning, Quantitative reasoning and Visuo-spatial reasoning.

4. General Awareness

This section shall carry questions to test the general awareness about Business, Finance, Industry, Transportation, Scientific inventions, Governance, Healthcare and Cultural dimensions etc.

5. General English:

Questions on Grammar and Vocabulary.

VISVESVARAYA TECHNOLOGICAL UNIVERSITY, BELGAUM

MCA Entrance Examination

Model Question Paper

Note:

- i. Answer all questions
- ii. Each question in part –A carry 1 mark and part – B carry 2 marks
- iii. Missing data may be suitably assumed

Duration: 2 Hours

Max. Marks 100

Part – A

- 1) If $4x - 2y = 8$ and $3y - 2x = 20$, then $12x - 6y$ is
 - a) 20
 - b) 22
 - c) 24
 - d) 26
- 2) The magnitude of the length of the perpendicular from (4, 6) on $3x - 4y + 9 = 0$ is
 - a) 9
 - b) 3
 - c) $3/5$
 - d) 2
- 3) Two roots of a cubic equation are 2 and $1 + 3i$. The other root is
 - a) 2
 - b) $-1 + 3i$
 - c) $-(1 + 3i)$
 - d) $1 - 3i$
- 4) $2 + 3 + 4 + \dots + 86 + 87 =$
 - a) 4561
 - b) 3828
 - c) 3827
 - d) 5828
- 5) The number of proper subsets of $\{1, 2, 3\}$ is
 - a) 5
 - b) 6
 - c) 7
 - d) 8
- 6) The smallest set A such that $A \cup \{1, 2\} = \{1, 2, 3, 5, 9\}$ is
 - a) $\{1, 2, 3, 5, 9\}$
 - b) $\{1, 2\}$
 - c) $\{3, 5, 9\}$
 - d) $\{1, 3, 9\}$
- 7) If $A = \{a, b\}$, $B = \{b, c\}$, $C = \{b, d\}$, then $A \times (B \cap C) =$
 - a) $\{a, b, c, d\}$
 - b) $\{(a, b), (c, d), (b, c)\}$
 - c) $\{(a, b), (b, b)\}$
 - d) None of the above
- 8) $56 \times 230 - 229 \times 56 =$
 - a) -8
 - b) 55
 - c) 56
 - d) 2356

- 9) In how many ways can a committee of 5 consisting of 3 boys and 2 girls be formed out of 10 boys and 8 girls?
- a) 3360 b) 1806 c) 3592 d) 2400
- 10) If \emptyset is a null set and $A = \{1, 2, 3\}$, and $B = \{5, 7, 9, 11\}$. Then $(A \cup B) \cap \emptyset$ is
- a) $\{1, 3, 5, 7, 9, 11\}$
b) \emptyset
c) $\{1, 3, 5\}$
d) $\{1, 3, 5, 7, 9\}$
- 11) Compiler is
- a) Hardware b) Software c) Firmware d) None of these
- 12) This Main Memory of a computer is
- a) RAM b) ROM c) EPROM d) Hard Disk
- 13) Which of these is a Sequential Access Storage Device?
- a) Hard Disk b) CD-ROM c) DVD d) Magnetic Tape
- 14) Linux is an
- a) Editor
b) Game
c) Operating System
d) Computer Language
- 15) One Kilo Byte is
- a) 1000 bytes b) 1024 bytes c) 8000 bits d) 1000 bits
- 16) The full form of CPU is
- a) Control Processing Unit
b) Control Programming Unit
c) Computer Peripheral Unit
d) Central Processing Unit
- 17) A program that translates Higher level language program into Machine language is an
- a) Editor b) Compiler c) Debugger d) Linker

- 18) ASCII stands for
- A Scientific Code for Information Interchange
 - American Standard Code for Information Interchange
 - All-purpose Standard Code for Interchange of Information
 - American Scientific Code for International Integration
- 19) The Binary equivalent of $(CD)_{16}$ is
- 11011110
 - 10101011
 - 10011010
 - 11011110
- 20) An algorithm is
- a set of rules
 - algebraic formula
 - a sequence of steps
 - a computer program
- 21) What is the area of a rectangle whose length is twice its width and whose perimeter is equal to that of a square whose area is 1?
- 1
 - 6
 - $\frac{2}{3}$
 - $\frac{8}{9}$
- 22) Find the missing link in the following sequence: 2.1, 3.2, 4.3, 5.4, _____, 7.6,
- 4.5
 - 6.3
 - 6.5
 - 7.5
- 23) In an examination, 30% of students fail in Mathematics, 25% fail in English, and 15% in both. What is the pass percentage?
- 70
 - 30
 - 60
 - 55
- 24) Two persons start from the same point and walk on a circular path at the same speed but in opposite directions. They will be diametrically opposite each other when each has covered.
- $\frac{1}{8}$ distance
 - $\frac{1}{4}$ distance
 - $\frac{1}{2}$ distance
 - $\frac{1}{16}$ distance
- 25) A piece of cloth costs Rs. 70. If the piece is 4 m longer and each metre costs Rs. 2 less, the cost remains unchanged. How long is the piece?
- 8 m
 - 9 m
 - 10 m
 - 12 m

- 26) The angle between the minute hand and the hour hand when the clock shows the time 7.30 is (in degrees).
- a) 45 b) 30 c) 35 d) 40
- 27) Two missiles speed directly towards each other, one at 12000 km per hour and the other at 18000 km per hour. How far apart they would be exactly 30 seconds before they collide?
- a) 100 km b) 250 km c) 50 km d) 11.50 km
- 28) In a singles tennis tournament that has 125 entrants, a player is eliminated whenever he loses a match. How many matches are played in the entire tournament?
- a) 62 b) 63 c) 124 d) 125
- 29) Raju ranks 13th in a class of 60. What is his rank from the last?
- a) 47th b) 49th c) 48th d) 50th
- 30) If the difference between the measures of the two smaller angles of right triangle is 8° , what is the measure, of the smallest angle in degrees?
- a) 37 b) 41 c) 42 d) 49
- 31) Rama has three times as much money as Krishna. If Rama gives Krishna Rs. 50, Krishna will then have three times as much money as Rama. How much money do the two of them have together?
- a) Rs. 75 b) Rs. 100 c) Rs. 125 d) Rs. 200
- 32) If $A = \{1,2,3\}$, $B = \{2,3,4\}$ and C is the set consisting of all the fractions whose numerators are in A and whose denominators are in B. What is the product of all the numbers in C?
- a) $1/64$ b) $1/48$ c) $1/24$ d) $1/12$
- 33) For any positive integer n, T (n) represents the number of positive divisors of n. What is the value of $T(T(T(12)))$?
- a) 1 b) 2 c) 3 d) 4
- 34) If c is the product of a and b, which of the following is the quotient of a and b?
- a) b^2/c b) c/b^2 c) c^2/b d) b/c^2
- 35) Kumar drove 8 miles west, 6 miles north, 3 miles east and 6 more miles north. How many miles was Kumar from his starting place?
- a) 13 b) 15 c) 21 d) 23

- 36) Optical fiber works on the principle of
a) Refraction b) Total internal reflection c) Scattering d) Interference
- 37) While Bible is the sacred book of Christianity Forah is the sacred book of
a) Confucianism b) Taoism c) Judaism d) Jainism
- 38) Which of the following is not a central government tax?
a) Income tax b) Customs c) Land revenue d) Corporation tax
- 39) The Theory of relativity was propounded by
a) Kepler b) Newton c) C V Raman d) Einstein
- 40) The first President of the Indian Republic was
a) Dr. S.Radhakrishnan
b) Dr. Rajendra Prasad
c) Dr. Zakir Hussain
d) V V Giri
- 41) The novel written by Somerset Maugham that won the Nobel prize for the literature is
a) Of Human Bondage
b) The Cyclone
c) The Good Earth
d) Table of Two Cities
- 42) Who wrote the National Song Vande Mataram
a) Aurobindo Ghosh
b) Sharat Chandra Chatterjee
c) Bakim Chandra Chatterjee
d) Rabindranath Tagore
- 43) The first woman Prime Minister in the world was
a) Margaret Thatcher
b) Indira Gandhi
c) Sirimao Bandara Nayike
d) Kim Campbel
- 44) Who is said to be the Father of Nuclear research in India
a) Raja Ramanna c) Meghanad Saha
b) Homi J. Bhabha d) C. V. Raman

- 36) The recently concluded elections were to constitute
- 13th Lokha Sabha
 - 14^h Lokha Sabha
 - 15^h Lokha Sabha
 - 16^h Lokha Sabha
- 46) The synonym of ECSTASY is
- Joy
 - Speed
 - Treasure
 - Warmth
- 47) The antonym of AMBIGUITY
- Normality
 - Success
 - Certainty
 - Clarity
- 48) FIRE:ASHES::
- Accident: delay
 - Wood: Splinters
 - Water: Waves
 - Event: Memories
- 49) Choose the appropriate word: If you are seeking _____ that will resolve all our ailments, you are undertaking an impossible task
- a precedent
 - a panacea
 - an abstraction
 - a direction
- 50) Choose the appropriate word: The young man was quickly promoted when his employers saw how _____ he was.
- indigent
 - indifferent
 - assiduous
 - cursory
- 51) Choose the appropriate word: The newest fibre-optic cables, made of glass, are so _____ that a piece 100 miles thick is clearer than a standard windowpane.
- fragile
 - tangible
 - immaculate
 - transparent
- 52) The opposite of *logical* is
- Illogical
 - Unlogical
 - Dislogical
 - none of these
- 53) In English language, there are ____ parts of speech.
- 5
 - 9
 - 8
 - 2
- 54) The passive voice of the sentence: *The bird ate the fruit.* is:
- The fruit ate the bird.

- b) Bird eats fruits.
- c) The fruit was eaten by the bird.
- d) The fruit will be eaten by the bird.

55) The sentence: *I had been to a movie.* is in:

- a) Past Perfect tense
- b) Past continuous tense.
- c) Simple future tense.
- d) None of the above.

56) The degrees of comparison of the word: *wet* are:

- a) wet, wetter, wettest
- b) wet, more wet, most wet
- c) wet, wetter, wettest
- d) None of the above.

57) The plural of word *medium* is:

- a) mediums
- b) medii
- c) Media
- d) multi-medium

58) Choose the appropriate preposition: *This is the boy whom I was speaking _____.*

- a) *at*
- b) *by*
- c) *on*
- d) *of*

59) The feminine gender of the word *Conductor* is:

- a) Conductress
- b) Miss Conductor
- c) Mrs. Conductor
- d) Lady Conductor

60) Choose the correct article: *He is ____ only person in the village who owns a scooter.*

- a) *a*
- b) *the*
- c) *an*
- d) *None of these*

Part – B

- 1) If A and B are acute angles and if $\sin A = \frac{1}{2}$, $\cos B = \frac{1}{2}$, then $\sin (A+B) =$
- 0
 - $\frac{1}{\sqrt{2}}$
 - $\frac{1+\sqrt{3}}{2}$
 - 1
- 2) Let P(E) denote the probability of event E. Given $P(A)=1$, $P(B)=\frac{1}{2}$. The values of $P(A/B)$ and $P(B/A)$ respectively.
- $\frac{1}{4}, \frac{1}{2}$
 - $\frac{1}{2}, \frac{1}{4}$
 - $\frac{1}{2}, 1$
 - 1, $\frac{1}{2}$
- 3) $\lim_{x \rightarrow -2} \frac{x^3 + 8}{x + 2} =$
- 2
 - 4
 - 8
 - 12
- 4) $\lim_{x \rightarrow 0} \frac{\sqrt{1+x} - \sqrt{1-x}}{x}$
- is equal to 0
 - is equal to 7
 - is equal to 1
 - is none of these
- 5) If $y = \frac{2x}{1+x^2}$ then $\frac{dy}{dx}$ at $x = \sqrt{2}$ is
- 0
 - $\frac{4}{3}$
 - $-\frac{2}{3}$
 - 1
- 6) If $y = 3 \cos x + 4 \sin x$, then $\frac{d^2 y}{dx^2} =$
- $a \tan x + b \cot x$
 - $-y$
 - $\frac{dy}{dx} + y$
 - $b \cos x - a \sin x$

$$7) \int_0^{\frac{p}{2}} \frac{\sin x dx}{1 + \cos x}$$

- a) 0 b) $1/\sqrt{2}$ c) $\log 2$ d) 1

$$8) \int_0^1 (2x+1)^2 dx =$$

- a) $9/3$ b) $13/3$ c) 9 d) $16/3$

$$9) \text{ if } f(x) = \sin x, g(x) = x^2, \text{ then for } x = \frac{p}{4} (g \circ f) x =$$

- a) 0 b) 1 c) $1/\sqrt{2}$ d) $1/2$

$$10) \text{ If } \vec{a} = (1, 0, -2), \vec{b} = (3, 1, 0), \text{ then } (2\vec{a} + \vec{b}) \cdot (\vec{a} - 2\vec{b}) =$$

- a) 31 b) 38 c) 41 d) 53

$$11) \text{ If } A = \begin{bmatrix} 2 & -3 \\ -1 & 2 \end{bmatrix} \text{ then } A^{-1} =$$

a) $\begin{bmatrix} 1/2 & -3/2 \\ -1 & -1/2 \end{bmatrix}$

b) $\begin{bmatrix} -2 & 3 \\ 1 & -2 \end{bmatrix}$

c) $\begin{bmatrix} 1 & 0 \\ 0 & 1 \end{bmatrix}$

d) $\begin{bmatrix} 2 & 3 \\ 1 & 2 \end{bmatrix}$

$$12) \text{ If } y = \log_2(x^2), \text{ then } \frac{dy}{dx} =$$

a) $1/x^2$

b) $2 (\log_e 2) \frac{1}{x}$

c) $2/x$

d) None of these

$$13) \text{ If } x = a(t - \sin t), y = a(1 - \cos t), \text{ what is the value of } \frac{dy}{dx} \text{ for } t = \frac{p}{2}$$

- a) 0 b) $\sqrt{2} + 1$ c) 1 d) $\sqrt{3}/2$

- 14) The two ends of a diameter of a circle have the coordinates (0, 0) and (2, 2). Then the equation of the circle is
- a) $x^2 + y^2 = 4$
 - b) $2x^2 + 3y^2 = 8$
 - c) $x^2 + y^2 - 2x + 2y = 6$
 - d) $x^2 + y^2 - 2x - 2y = 0$
- 15) The equation of the straight line passing through the points (-1, 2) and (3, 0) is
- a) $2x + y - 6 = 0$
 - b) $x + 2y - 3 = 0$
 - c) $3x + 2y = -1$
 - d) $3x = 2y$
- 16) In 2's complement representation, a certain nonnegative number $-N$ is 1011. The representation for $+N$ is
- a) 0100
 - b) 0101
 - c) 0110
 - d) 0011
- 17) The 2's complement representation in an 8-bit format is 11010000. The equivalent hexadecimal representation is
- a) -50
 - b) +50
 - c) 30
 - d) -30
- 18) The sum of $(F)_{16}$ and $(F)_{16}$ is
- a) $(1E)_{16}$
 - b) $(1D)_{16}$
 - c) $(FF)_{16}$
 - d) $(10)_{16}$
- 19) The result of the binary division: $1001110001 / 11001$ is
- a) 11001
 - b) 11101
 - c) 10011
 - d) 10001
- 20) The normalized floating-point number of 0.0012×10^4 is
- a) 1.2×10^3
 - b) 1.2×10^2
 - c) 0.12×10^6
 - d) 0.12×10^2

******* Wish You Best of Luck *******

ANNEXURE - 4**TENTATIVE LIST OF COLLEGES OFFERING MCA COURSE**

Sl. No.	Name of College with full address	Phone	Fax	Intake
1.	Bangalore University Department, Bangalore	080-22961453	080-2100187	30
2.	Department of Computer Applications, Gulbarga University, Gulbarga	08472-249682	08472-245927	45
3.	Mangalore University, Mangalagangothri Mangalore.	0824-2287276	0824-2287424	60
4.	University of Mysore, DOS in Computer Science, Manasagangothri, Mysore – 570 006	0821-2510789	0821-2510789	23
5.	Jnana Sahyadri Campus Shankaraghatta-577451 Shimoga Dist.	08282-256221	08282-256255/ 256262	40
6.	Sri Siddhartha Institute of Mangement Studies, S.S.I.T Campus, Maraler, Tumkur-572105	0816- 2092743 / 2201073	0816-2200270	60
7.	Director, Department of Computer Science, Karnataka University, Dharwad	0836-2215343	0836-2741884	45
Total College – 07			Grand Total	303

The number of seats available will be updated as and when the PG CET Cell receives the list of colleges who have exercised options to Justice Venkataraman Technical Committee opting the Government PG CET-2006 for admissions.

ANNEXURE - 5**IMPORTANT CONTACT INFORMATION**

Telephone Numbers : 0831 – 2405485, 63
 Fax Number : 0831 – 2405453
 E-mail ID : pgcet@vtu.ac.in
 Website : www.vtu.ac.in; www.vtu.ac.in/pgcet

ANNEXURE - 6**IMPORTANT DATES TO REMEMBER**

- | | |
|--|-----------------------------|
| 1. Last date for issue of Applications | 12-06-2006 |
| 2. Last date for receipt of completed Applications | 15-06-2006 |
| 3. Date of test(The MCA Entrance Test is rescheduled) | |
| Earlier date | 25-06-2006 |
| Rescheduled Date | 01-07-2006 |
| | (2.00 PM to 4.00 PM) |
| 4. Last date to submit all marks cards to University
(in case final year results are awaited) | 14-07-2006 |
| 5. Declaration of ranks | 18-07-2006 |
| 6. Seat selection Process (Tentative) | 21-07-2006 to 31-07-2006 |
| 7. Commencement of I semester classes | 16-08-2006 |

— — — — — **WISH YOU BEST OF LUCK** — — — — —