

**UNIVERSITY OF MUMBAI**  
T. Y. B. Sc. / T.Y.B.A. (THREE YEAR DEGREE COURSE)  
EXAMINATION APRIL 2015  
PROGRAMME OF THE PRACTICAL EXAMINATION IN MATHEMATICS  
(CREDIT BASED SEMESTER AND GRADING SYSTEM)

**Instruction to Candidates**

1. The practical question paper will be of 3 hours duration and will contain two Parts A and B. Each part will contain two Sections. **Section I of both part (Part A and part B) together** will have duration of one hour and thirty minutes.
  
2. **Section I** and **Section II** will be distributed at the commencement of examination. After one hour and thirty minutes from the time of commencement of the examination **Section I of both the parts** will be collected from the candidates if it is not already submitted.
  
3. If more than one option is marked in **Section I**, no marks will be given to the candidate for that option.
  
4. At the end of the first hour from the time of commencement of the examination viva voce will be conducted.

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**Time: 11.00 a.m. to 2.00 p. m.**

20/04/2015	Practical Course I USMTP07	Part A: Real Analysis & Multivariable Calculus
		Part B: Algebra
23 / 04 / 2015 Tuesday	Practical Course II USMTP08	Part A: Topology of Metric spaces
		Part B: Elective A: Numerical Methods Elective B: Number Theory & its Applications Elective C: Graph Theory and Combinatorics Elective D: Probability and application to Financial Mathematics

**Note:**

1. Duration of examination will be of three hours.
2. All the candidates should be present at the place of practical examination at least 15 minutes prior to the schedule time.
3. Candidates should bring the certified journal or a certificate to that effect from the proper authority.
4. Mobile phones are strictly prohibited in the examination hall.
5. Non-Programmable Scientific Calculators are allowed for Paper-IV (Elective-A Numerical Methods)

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**CENTRE: Jai Hind College, Basantsing Institute  
Of Science And J.T.Lalvani College Of  
Commerce**

**(Candidate appearing from Jai Hind, Siddharth, Maharashtra, Elphistone, Somani College)**

**DATES: 20/04/15 (USMTP07) 23/04/15 (USMTP08)**

**Time: 11.00 a.m. to 2.00 p. m.**

Candidate appearing following College	Seat No.
Jai Hind	1110103 1110104 1110105 1110106 1110108 1110109 1110110 1110113 1110114 1110115 1110117 1110118 1110119 1110120 1110121 1110124 1110126 1110127 1110129 1110130
Siddharth	1110112 1110116 1110122 1110123 1110125 1110128
Maharashtra	1110758 1110759 1110760 1110761 1110762 1110763 1110764 1110765 1110766 1110767 1110768 1110769 1110770 1110771
Elphistone	1110143 1110144 1110145 1110146 1110147
Somani	1110143 1110144 1110145 1110146 1110147

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**CENTRE: RUIA COLLEGE,**

**(Candidate appearing from Ruia and Wilson College)**

**DATES: 20/04/15 (USMTP07) 23/04/15 (USMTP08)**

**Time: 11.00 a.m. to 2.00 p. m.**

Candidate appearing following College	Seat No.
Ruia	1111131 1111132 1111133 1111134 1111135 1111136 1111137 1111138 1111139 1111140 1111141 1111142 1111143 1111144 1111145 1111146 1111147 1111148 1111149 1111150 1111151 1111152 1111153 1111154 1111155 1111156 1111157 1111158 1111159 1111160 1111161 1111162 1111163 1111164
Wilson	1110131 1110132 1110133 1110134 1110135 1110136 1110137 1110138 1110139 1110140 1110141 1110142

**CENTRE: KIRTI COLLEGE**

**(Candidate appearing from Kirti and Ruparel College)**

**DATES: 20/04/15 (USMTP07) 23/04/15 (USMTP08)**

**Time: 11.00 a.m. to 2.00 p. m.**

Candidate appearing following College	Seat No.
Kirti	1111063 1111065 1111071 1111077 1111079 1111081 1111082 1111088 1111099 1111104 1111111
Ruparel	1111057 1111058 1111066 1111067 1111072 1111083 1111084 1111086 1111089 1111093 1111094 1111095 1111096 1111098 1111112

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**CENTRE: KHALSA COLLEGE**

**(Candidate appearing from Khalsa and Guru Nanak College)**

**DATES: 20/04/15 (USMTP07) 23/04/15 (USMTP08)**

**Time: 11.00 a.m. to 2.00 p. m.**

Candidate appearing following College	Seat No.
Khalsa	1111053 1111059 1111061 1111064 1111069 1111070 1111073 1111078 1111087 1111091 1111100 1111101 1111103 1111108 1111109
Guru Nanak	1111054 1111055 1111056 1111060 1111062 1111068 1111074 1111075 1111076 1111080 1111085 1111090 1111092 1111097 1111102 1111105 1111106 1111107 1111110

**CENTRE: SIES COLLEGE**

**(Candidate appearing from SIES and MD College)**

**DATES: 20/04/15 (USMTP07) 23/04/15 (USMTP08)**

**Time: 11.00 a.m. to 2.00 p. m.**

Candidate appearing following College	Seat No.
SIES	1111113 1111114 1111115 1111116 1111117 1111118 1111119 1111120 1111121 1111122 1111123 1111124 1111125 1111126 1111127 1111128 1111129 1111130
MD	1112438 1112439 1112440 1112441 1112442 1112443

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**CENTRE: MITHIBAI COLLEGE, VILE-PARLE**

**(Candidate appearing from Mithibai and Sathye College)**

**DATES: 20/04/15 (USMTP07) 23/04/15 (USMTP08)**

**Time: 11.00 a.m. to 2.00 p. m.**

Candidate appearing following College	Seat No.
Mithibai	1112831 1112833 1112836 1112838 1112846 1112848 1112849 1112850 1112853 1112855 1112856 1112857 1112859 1112861 1112864 1112865 1112867
Sathye	1112876 1112877 1112878 1112879 1112880 1112881 1112882 1112883 1112884 1112885 1112886 1112887 1112888 1112889 1112890

**CENTRE: THAKUR COLLEGE**

**(Candidate appearing from Thakur and I.Y College)**

**DATES: 20/04/15 (USMTP07) 23/04/15 (USMTP08)**

**Time: 11.00 a.m. to 2.00 p. m.**

Candidate appearing following College	Seat No.
Thakur	1114016 1114017 1114018 1114019 1114020 1114021 1114022 1114023 1114024 1114025 1114026 1114027 1114028 1114029 1114030 1114031 1114032 1114033 1114034 1114035 1114036 1114037 1114038 1114039 1114040
Ismail Yusuf	1112828 1112829 1112830 1112832 1112834 1112835 1112837 1112839 1112840 1112841 1112842 1112843 1112844 1112845 1112847 1112851 1112852 1112854 1112858 1112860 1112862 1112863 1112866 1112868 1112869 1112870 1112871 1112872 1112873 1112874 1112875

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**CENTRE: PATKAR COLLEGE**

**(Candidate appearing from Patkar and Bhavan's College)**

**DATES: 20/04/15 (USMTP07) 23/04/15 (USMTP08)**

**Time: 11.00 a.m. to 2.00 p. m.**

Candidate appearing following College	Seat No.
Patkar	1114041 1114042 1114043 1114044 1114045 1114046 1114047 1114048 1114049 1114050 1114051 1114052 1114053 1114054 1114055 1114056 1114057 1114058 1114059 1114060
Bhavans	1112891 1112892 1112893 1112894 1112895 1112896 1112897 1112898 1112899 1112900 1112901 1112902 1112903 1112904 1112905 1112906 1112907 1112908 1112909 1112910

**CENTRE: VAZE COLLEGE**

**(Candidate appearing from Vaze and Ratnam College)**

**DATES: 20/04/15 (USMTP07) 23/04/15 (USMTP08)**

**Time: 11.00 a.m. to 2.00 p. m.**

Candidate appearing following College	Seat No.
Vaze	1115954 1115955 1115956 1115957 1115958 1115959 1115960 1115961 1115962 1115963 1115964 1115965 1115966 1115967 1115968 1115969 1115970 1116321
Ratnam	1114871 1114872 1114873 1114874 1114875 1114876 1114877 1114878 1114879 1114880 1114881 1114882 1114883 1114884 1114885 1114886 1114887 1114888 1114889 1114890 1114891 1115896

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**CENTRE: RJC COLLEGE**

**(Candidate appearing from Jhunhunwala and VES College)**

**DATES: 20/04/15 (USMTP07) 23/04/15 (USMTP08)**

**Time: 11.00 a.m. to 2.00 p. m.**

Candidate appearing following College	Seat No.
RJC	1114815 1114816 1114817 1114818 1114819 1114820 1114821 1114822 1114823 1114824 1114825 1114826 1114827 1114828 1114829 1114830 1114831 1114832 1114833 1114834 1114835 1114836 1114837 1114838 1114839 1114840 1114841 1114842 1114843 1114844 1114845 1114846 1114847 1114848 1114849 1114850 1114851 1114852 1114853 1114854 1114855 1114856 1114857 1114858 1114859 1114860 1114861 1114862 1114863 1114864 1114865 1114866 1114867 1114868 1114869 1114870
VES	1114892 1114893 1114894 1114895 1114896 1114897 1114898 1114899



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**CENTRE: B.N.BANDODKAR COLLEGE,THANE**

(Candidate appearing from **Bandodkar,Dyansadhana, Amdar Daulat Daroda Wada**  
**,Sanjeevan and G.R.Patil,Mumbra** College)

**DATES: 20/04/15 (USMTP07) 23/04/15 (USMTP08)**

**Time: 11.00 a.m. to 2.00 p. m.**

Candidate appearing following College	Seat No.
Bandodkar	1115915 1115916 1115917 1115919 1115920 1115923 1115924 1115925 1115926 1115929 1115930 1115932 1115933 1115934 1115935 1115940 1115941 1115942 1115943 1115944 1115945 1115948 1115949 1115951
Dyansadhana	1115914 1115918 1115921 1115922 1115927 1115928 1115931 1115936 1115937 1115938 1115939 1115946 1115947 1115950 1115952 1115953
A.D. Daroda	1121734 1121735 1121736 1121737 1121738
Sanjeevan	1121847 1121848 1121849
G.R.Patil	1118726 1118727 1118728 1118729

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**CENTRE: CHM COLLEGE**

**(Candidate appearing from CHM, RKT,G.R.Patil College Ulhasnagar)**

DATES: 20/04/15 (USMTP07) 23/04/15 (USMTP08)

Time: 11.00 a.m. to 2.00 p. m.

Candidate appearing following College	Seat No.
CHM	1116724 1116725 1116739 1116740 1116741 1116742 1116743 1116744 1116745 1116746 1116747 1116748 1116749 1116750 1116751 1116752 1116753 1116754 1116755 1116756 1116757 1116758 1116759 1116760 1116761 1116762 1116763 1116764 1116765 1116766 1116767 1116768 1116769 1116770 1116771 1116772
RKT	1116726 1116727 1116729 1116730 1116731 1116732 1116733 1116734 1116735 1116736 1116737 1116738
G.R.Patil	1116728

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**CENTRE: BIRLA COLLEGE, KALYAN**

**(Candidate appearing from Birla and ACS Goveli College)**

**DATES: 20/04/15 (USMTP07) 23/04/15 (USMTP08)**

**Time: 11.00 a.m. to 2.00 p. m.**

Candidate appearing following College	Seat No.
Birla	1117375 1117376 1117377 1117378 1117379 1117380 1117381 1117382 1117383 1117384 1117385 1117386 1117387 1117388 1117389 1117390 1117391 1117392 1117393 1117394 1117395 1117396 1117397 1117398 1117399 1117400 1117401 1117402 1117403 1117404 1117405 1117406 1117407 1117408 1117409 1117410 1117411
ACS Goveli	1122758 1122759 1122760 1122761 1122762 1122763 1122764 1122765 1122766 1122767 1122768

**CENTRE: G.M.M.COLLEGE**

**(Candidate appearing from BNN and GMM College)**

**DATES: 20/04/15 (USMTP07) 23/04/15 (USMTP08)**

**Time: 11.00 a.m. to 2.00 p. m.**

Candidate appearing following College	Seat No.
BNN	1119524 1119525 1119526 1119547 1119548 1119553 1119554 1119557 1119558 1119559 1119560 1119562 1119563 1119569 1119570 1119571 1119573 1119574 1119575 1119576
GMM	1119527 1119528 1119529 1119530 1119531 1119532 1119533 1119534 1119535 1119536 1119537 1119538 1119539 1119540 1119541 1119542 1119543 1119544 1119545 1119546 1119549 1119550 1119551 1119552 1119555 1119556 1119561 1119564 1119565 1119566 1119567 1119568 1119572

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**CENTRE: VARTAK COLLEGE**

**(Candidate appearing from Vartak and Viva College)**

**DATES: 20/04/15 (USMTP07) 23/04/15 (USMTP08)**

**Time: 11.00 a.m. to 2.00 p. m.**

Candidate appearing following College	Seat No.
VARTAK	1117992 1117993 1117994 1117996 1117997 1117998 1117999 1118000 1118001 1118003 1118006 1118007 1118008 1118009 1118010 1118011 1118012 1118014 1118015 1118016 1118017 1118018 1118020 1118021 1118022 1118023 1118024 1118025 1118026 1118027 1118028 1118029 1118030 1118031 1118032 1118033 1118034 1118035 1118036 1118037 1118038 1118040 1118041 1118042 1118044 1118045
VIVA	1117995 1118002 1118004 1118005 1118013 1118019 1118039 1118043

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**CENTRE: KBP VASHI**

**(Candidate appearing from KBP College)**

**DATES: 20/04/15 (USMTP07) 23/04/15 (USMTP08)**

**Time: 11.00 a.m. to 2.00 p. m.**

Candidate appearing following College	Seat No.
KBP	1118874 1118875 1118876 1118877 1118878 1118879 1118880 1118881 1118882 1118883 1118884 1118885 1118886 1118887 1118888 1118889 1118890 1118891 1118892 1118893 1118894 1118895 1118896 1118897 1118898 1118899 1118900 1118901 1118902 1118903 1118904 1118905 1118906 1118907 1118908 1118909 1118910 1118911 1118912 1118913 1118914 1118915 1118916 1118917 1118918 1118919

**CENTRE: DBJ COLLEGE**

**(Candidate appearing from DBJ CHIPLUN ,G.B. TATHA GUHAGHAR AND DR.AMBEDKAR MAHAD College)**

**DATES: 20/04/15 (USMTP07) 23/04/15 (USMTP08)**

**Time: 11.00 a.m. to 2.00 p. m.**

Candidate appearing following College	Seat No.
DBJ	1120998 1120999 1121000 1121001 1121002 1121003 1121004 1121005 1121006 1121007 1121008 1121009 1121010 1121011 1121012 1121013 1121014 1121015 1121016 1121017 1121018 1121019 1121020 1121021 1121022 1121023 1121024 1121025
G.B.TATHA	1122327 1122328 1122329 1122330 1122331 1122332 1122333 1122334 1122335 1122336 1122337
Dr.AMBEDKAR, MAHAD	1120002 1120003

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**CENTRE: R.P.GOGATE COLLEGE,RATNAGIRI**

(Candidate appearing from **GOGATE** College)

**DATES: 20/04/15 (USMTP07) 23/04/15 (USMTP08)**

**Time: 11.00 a.m. to 2.00 p. m.**

Candidate appearing following College	Seat No.
GOGATE	1120784 1120785 1120786 1120787 1120788 1120789 1120790 1120791 1120792 1120793 1120794 1120795 1120796 1120797 1120798 1120799 1120800 1120801 1120802 1120803 1120804 1120805 1120806 1120807 1120808 1120809

**CENTRE: ART'S,COMMERCE AND SCIENCE,LANJA COLLEGE**

(Candidate appearing from **LANJA** College)

**DATES: 20/04/15 (USMTP07) 23/04/15 (USMTP08)**

**Time: 11.00 a.m. to 2.00 p. m.**

Candidate appearing following College	Seat No.
LANJA	1122418 1122419 1122420 1122421 1122422 1122423 1122424 1122425 1122426 1122427 1122428 1122429 1122430 1122431 1122432 1122433

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**CENTRE: SANT RAWOOL MAHARAJ KUDAL COLLEGE**

**(Candidate appearing from KUDAL College)**

**DATES: 20/04/15 (USMTP07) 23/04/15 (USMTP08)**

**Time: 11.00 a.m. to 2.00 p. m.**

Candidate appearing following College	Seat No.
<b>SANT RAWOOL MAHARAJ COLLEGE KUDAL</b>	1121950 1121951 1121952 1121953 1121954 1121955 1121956
	1121957 1121958 1121959 1121960 1121961 1121962 1121963
	1121964 1121965 1121966 1121967 1121968 1121969 1121970
	1121971 1121972 1121973 1121974 1121975 1121976 1121977
	1121978 1121979 1121980

**CENTRE: G.S.P. COLLEGE OF ACS ,TALSARI**

**(Candidate appearing from TALASARI College)**

**DATES: 20/04/15 (USMTP07) 23/04/15 (USMTP08)**

**Time: 11.00 a.m. to 2.00 p. m.**

Candidate appearing following College	Seat No.
<b>G.S.P</b>	1122842 1122843 1122844 1122845 1122846 1122847 1122848
	1122849 1122850 1122851 1122852 1122853 1122854 1122855
	1122856 1122857 1122858 1122859

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**CENTRE: PRABHAKAR PATIL COLLEGE OF ACS ,ALIBAG**

**(Candidate appearing from ALIBAG College)**

**DATES: 20/04/15 (USMTP07) 23/04/15 (USMTP08)**

**Time: 11.00 a.m. to 2.00 p. m.**

Candidate appearing following College	Seat No.
ALIBAG	1119940 1119941 1119942 1119943 1119944 1119945 1119946

**Mumbai - 400 098**  
**04<sup>th</sup> April , 2015**

**(Dinesh Bhonde)**  
**Controller of Examinations**