Date of Publication: 27.02.2012

MAHATMA GANDHI UNIVERSITY

N O T I F I C A T I O N

No: EH II/371/2012

P.D.Hills,
Dated: 27.02.2012

It is hereby notified that the result of M.Sc Branch III, IV(A), IV(B), V(A) & (B) Chemistry Degree examination Second Semester held in June 2011 is published on 27.02.2012.

RESULT AT A GLANCE

Number of Candidates		
Registered	Appeared	Passed
803	783	476 (60.79%)

N.B: The applications for revaluation of answer scripts in the prescribed form along with the required fee of Rs.250/- per paper should be forwarded so as to reach the office of the Controller of Examinations on or before 28.03.2012.

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MAHATMA GANDHI UNIVERSITY KOTTAYAM

Approved for Issue

SECTION OFFICER

!"#$%&"'()

*+(,)(#-%.#,/-0%"#+(1,23,4(0,&)(,52),"''(1"&.(,"352)'&."23,
25,.+(,(6&'"3((#7,*+(#(,$&332.,0(,.)(&.(1,&#,2)"8"3&%,'&)9,
#+((.#7,:)"8"3&%,'&)9,#+((.#,+&;(,0((3,"##-(1,0<,.+(,
=3";()#".<,#(/&)&.(%<7,

%109:33;

0000000000000000000000000000(<="
7)6+.)33/.0)*0#$-5:6-+:)6;

!"#$%&'()*+%,-).//')!"#$%#&')+"0.123')('4'&"$'()56))()*+,-./01/2/3)45/6+0'/-502.)
7#'#87823''9+/2):/242,7);2/2.#2)<2,(/%)=,%4'3+%.6)>"..262#?

! "#"$%"& ' "()#*&+(*,-./*$0&12$$"0"%

!"#$%&'()''*"+(,-'*". "#&"/''0'*+'1"2/""'345.6,5&6(,'7$,"'89::

1';'<=0<='>?@@3A3'<=!B0=@=

;/5,+C'DDDE'>C".6#&/F

*303*G3!'<=**

!"#$%"&%'!(!"#$%'&%"%(!"#$%)&'**(!"#$%*&%$#(

!"#$%#&%")(!"#$+"&'#'(!"#$+'&%!,(

1';'<=0<='>?@@3A3'<=!B0=@=

;/5,+C'DDDE'>C".6#&/F

<=<3!'<=**

8:HIJ8

>K'898E >K'89IE >K'89JE >K'89LE >K'89ME

8:HIJI

>K'898E >K'89IE

8:HIJJ

>K'89IE >K'89JE >K'89LE >K'89ME

8:HIJL

>K'89IE >K'89JE >K'89LE >K'89ME

8:HIL9

>K'89IE

8:HIL8

>K'89JE >K'89LE >K'89ME

8:HILI

>K'89:E >K'89IE >K'89NE >K'89JE >K'89LE >K'89ME

8:HILJ

>K'89JE >K'89LE >K'89ME

%1091:33;

<=>?<><?@<

0000000000000000000000000000(AB"

7)6+.)33/.0)*0#$-5:6-+:)6;

!"#!$#"!%" &'()*+,-.,,/'0123,/'4'(+'5,,6,/0,7'85'',9:;4<2;+<12,=)2',"!%% %

>14?<*'3,)(<28,+@',!"#$%#&',(1.+A;5',3'B'*1?'3,CD,,()*+,-./01/2/3)45/6+0'/-50;+,

7#'#8EF;5''G(@;,H@;B;2E,6;@;+4;,I;23@<,J2<B'5(<+D,K1++;D;4L

! "#"$%"& ' "()#*&+(*,-./*$0&12$$"0"%

!"#$%&'()''*"+(,-'*".'"#&"/''0'*+'1"2/""'345.6,5&6(,'7$,"'89::

0=!GK?0='>?@@3A3'OBGG=<BPK=''GKD!BQ=@@=

;/5,+C'DDDE'>C".6#&/F

*303*G3!'<=**

!"#)+$&%,#(!"#)+%&%))(!"#)++&%$,(!"#)+*&%!'(

!"#)+#&%'!(!"#)),&%!*(!"#))"&%'+(!"#))!&%,*(

!"#))$&%"!(

0=!GK?0='>?@@3A3'OBGG=<BPK=''GKD!BQ=@@=

;/5,+C'DDDE'>C".6#&/F

<=<3!'<=**

8:HML:

>K'89IE >K'89NE >K'89JE >K'89LE >K'89ME

8:HML8

>K'89:E >K'89IE >K'89NE >K'89JE >K'89LE >K'89ME

8:HMLN

>K'89JE >K'89LE >K'89ME

8:HMLM

>K'89JE >K'89LE >K'89ME

%109:33;

<=>?<><?@<

0000000000000000000000000000(AB"

7)6+.)33/.0)*0#$-5:6-+:)6;

!"#!$#"!%" &'()*+,-.,,/'0123,/'4'(+'5,,6,/0,7'85'',9:;4<2;+<12,=)2',"!%%

>14?<*'3,)(<28,+@',!"#$%#&',(1.+A;5',3'B'*1?'3,CD,,()*+,-./01/2/3)45/6+0'/-50;+,

7#'#8EF;5''G(@;,H@;B;2E,6;@;+4;,I;23@<,J2<B'5(<+D,K1++;D;4L

! "#"$%"& ' "()#*&+(*,-./*$0&12$$"0"%

!"#$%&'()''*"+(,-'*".'"#&"/''0'*+'1"2/""'345.6,5&6(,'7$,"'89::

G'GK?0='>?@@3A3'!=RRD

;/5,+C'DDDE'>C".6#&/F

*303*G3!'<=**

!!,)#"&%""(!!,)#!&'#$(!!,)#$&%+*(!!,)#'&%$*(
!!,)#%&%+#(!!,)#+&'+'(!!,)#)&'#'(!!,)#*&%++(
!!,)##&%'"(

%1090:33;
<=>?<><?@<

0000000000000000000000000000(AB"
7)6+.)33/.0)*0#$-5:6-+:)6;

!"#!$#"!%" &'()*+,-.,,/'0123,/'4'(+'5,,6,/0,7'85'',9:;4<2;+<12,=)2',"!%% $

>14?<*'3,)(<28,+@',!"#$%#&',(1.+A;5',3'B'*1?'3,CD,,()*+,-./01/2/3)45/6+0'/-50;+,
7#'#8EF;5''G(@;,H@;B;2E,6;@;+4;,I;23@<,J2<B'5(<+D,K1++;D;4L

! "#"$%"& ' "()#*&+(*,-./*$0&12$$"0"%

!"#$%&'()''*"+(,-'*".'"#&"/''0'*+'1"2/""'345.6,5&6(,'7$,"'89::

;=*3@DB*'>?@@3A3'O?GG=S=0

;/5,+C'DDDE'>C".6#&/F

*303*G3!'<=**

!"#,,!&%+$(!"#,,$&%#,(!"#,,%&%,!(!"#,,+&%,!(
!"#,,)&%%+(!"#,,*&%'#(!"#,,#&%%$(!"#,",&%"+(
!"#,""&%)!(!"#,"!&+,,(!"#,"$&%)'(!"#,"+&%!#(
!"#,")&%%)(!"#,"*&')#(

;=*3@DB*'>?@@3A3'O?GG=S=0

;/5,+C'DDDE'>C".6#&/F

<=<3!'<=**

8:H99:
>K'89IE >K'89JE >K'89LE >K'89ME

8:H99N
>K'89IE >K'89JE >K'89LE >K'89ME

8:H9:J
>K'89IE >K'89NE >K'89JE >K'89LE >K'89ME

8:H9:H
>K'89:E >K'89IE >K'89NE >K'89JE >K'89LE >K'89ME

%1099:33;
<=>?<><?@<

0000000000000000000000000000(AB"
7)6+.)33/.0)*0#$-5:6-+:)6;

!"#!$#"!%" &'()*+,-.,,/'0123,/'4'(+'5,,6,/0,7'85'',9:;4<2;+<12,=)2',"!%% M

>14?<*'3,)(<28,+@',!"#$%#&',(1.+A;5',3'B'*1?'3,CD,,()*+,-./01/2/3)45/6+0'/-50;+,
7#'#8EF;5''G(@;,H@;B;2E,6;@;+4;,I;23@<,J2<B'5(<+D,K1++;D;4L

! "#"$%"& ' "( )#*&+ (*, -. /*$0&1 2$$"0"%

!"#$%&'()''*"+(,-'*". "#&"/'' 0 '*+'1"2/""'345 . 6,5&6(,'7$,"'89::

;D*K?<'OB!D=@=>K3!!S'>?@@3A3'T?!'U?03R'=0=@=AD!D

;/5,+C'DDDE'>C". 6#&/F

*303*G3!'<=**

!"#"$"&%!'(!"#"$!&')$(!"#"$$&%'#(!"#"$'&'+!(

!"#"$%&%!"(!"#"$+&'*!(!"#"$*&%%'(!"#"$#&%%*(

!"#"'!&%$!(!"#"'$&%,'(!"#"''&'*+(

;D*K?<'OB!D=@=>K3!!S'>?@@3A3'T?!'U?03R'=0=@=AD!D

;/5,+C'DDDE'>C". 6#&/F

<=<3!'<=**

8:H:N9

>K'89IE >K'89JE >K'89LE >K'89ME

8:H:N:

>K'898E >K'89IE >K'89JE >K'89LE >K'89ME

8:H:NJ

>K'89:E >K'89IE >K'89JE >K'89LE >K'89ME

8:H:NL

>K'89IE >K'89JE >K'89LE >K'89ME

8:H:NM

>K'89IE >K'89JE >K'89LE >K'89ME

%109:33;

<=>?<><?@<

0000000000000000000000000000(AB"

7)6+.)33/.0)*0#$-5:6-+:)6;

!"#!$#"!%" &'()*+,-.,,/'0123,/'4'(+'5,,6,/0,7'85'',9:;4<2;+<12,=)2',"!%%

N

>14?<*'3,)(<28,+@',!"#$%#&',(1.+A;5',3'B'*1?'3,CD,,()*+,-./01/2/3)45/6+0'/-50;+,

7#'#8EF;5''G(@;,H@;B;2E,6;@;+4;,I;23@<,J2<B'5(<+D,K1++;D;4L

! "#"$%"& ' "()#*&+(*,-./*$0&12$$"0"%

!"#$%&'()''*"+(,-'*".'"#&"/''0'*+'1"2/""'345.6,5&6(,'7$,"'89::

>'0'*'>?@@3A3'O?GG=S=0

;/5,+C'DDDE'>C".6#&/F

*303*G3!'<=**

!"#!,!&%%$(!"#!,$&%!,(!"#!,'&'#!(!"#!,%&'*"(

!"#!,+&%$#(!"#!,)&'#*(!"#!,*&%%%(!"#!",&%!)(

!"#!"!&%%+(!"#!"$&%$,(

>'0'*'>?@@3A3'O?GG=S=0

;/5,+C'DDDE'>C".6#&/F

<=<3!'<=**

8:H89:

>K'89JE >K'89LE >K'89ME

8:H89H

>K'89IE >K'89JE >K'89LE >K'89ME

8:H8::

>K'89JE >K'89LE >K'89ME

%109:33;

<=>?<><?@<

0000000000000000000000000000(AB"

7)6+.)33/.0)*0#$-5:6-+:)6;

!"#!$#"!%" &'()*+,-.,,/'0123,/'4'(+'5,,6,/0,7'85'',9:;4<2;+<12,=)2',"!%% 0

>14?<*'3,)(<28,+@',!"#$%#&',(1.+A;5',3'B'*1?'3,CD,,()*+,-./01/2/3)45/6+0'/-50;+,

7#'#8EF;5''G(@;,H@;B;2E,6;@;+4;,I;23@<,J2<B'5(<+D,K1++;D;4L

13Q= 0 =GK='>?@@3A3'OB ! =QD@=RA=1

;/5,+C'DDDE'>C" . 6#&/F

*3 0 3*G3 !'<=**

!"#'!"&'+'(!"#'!$&'%)(!"#'!'&'*$(!"#'$,&%,"(

!"#'$"&'$"(

13Q= 0 =GK='>?@@3A3'OB ! =QD@=RA=1

;/5,+C'DDDE'>C" . 6#&/F

<=<3 !'<=**

8:HN88

>K'89:E >K'898E >K'89JE >K'89LE >K'89ME

8:HN8J

>K'898E >K'89IE >K'89JE >K'89LE >K'89ME

8:HN8L

>K'898E >K'89JE >K'89LE >K'89ME

8:HN8M

>K'898E >K'89IE >K'89JE >K'89LE >K'89ME

8:HN8V

>K'89JE >K'89LE >K'89ME

8:HN8H

>K'89:E >K'89IE >K'89JE >K'89LE >K'89ME

8:HNI8

>K'89JE >K'89LE >K'89ME

8:HNII

>K'89:E >K'898E >K'89IE >K'89JE >K'89LE >K'89ME

%109:33;

<=>?<><?@<

0000000000000000000000000000(AB"

7)6+.)33/.0)*0#$-5:6-+:)6;

>14?<*'3,)(<28,+@',!"#$%#&',(1.+A;5',3'B'*1?'3,CD,,()*+,-./01/2/3)45/6+0'/-50;+,

7#'#8EF;5''G(@;,H@;B;2E,6;@;+4;,I;23@<,J2<B'5(<+D,K1++;D;4L

1 3Q=*U?0'';?=!1''>?@@3A3W'GK=@=S?@=<=!=0;B

;/5,+C'DDDE'>C". 6#&/F

*3 0 3*G3!'<=**

!"#'#)&'*+(!"#'#*&%"*(!"#'##&%'+(!"#%,,&'+'(

!"#%,!&%"%(!"#%,'&%,"(

1 3Q=*U?0'';?=!1''>?@@3A3W'GK=@=S?@=<=!=0;B

;/5,+C'DDDE'>C". 6#&/F

<=<3!'<=**

8:HNH:

>K'89JE >K'89LE >K'89ME

8:HNH8

>K'89JE >K'89LE >K'89ME

8:HNHI

>K'89JE >K'89LE >K'89ME

8:HNHN

>K'89JE >K'89LE >K'89ME

8:HNHJ

>K'89:E >K'89NE >K'89JE >K'89LE >K'89ME

8:HNHL

>K'89JE >K'89LE >K'89ME

8:HJ9:

>K'89JE >K'89LE >K'89ME

8:HJ9I

>K'89:E >K'89NE >K'89JE >K'89LE >K'89ME

%1 0 9:33;

<=>?<><?@<

0000000000000000000000000000(AB"

7)6+.)33/.0)*0#$-5:6-+:)6;

>14?<*'3,)(<28,+@',!"#$%#&',(1.+A;5',3'B'*1?'3,CD,,()*+,-./0 1/2/3)45/6+0'/-50;+,

7#'#8EF;5''G(@;,H@;B;2E,6;@;+4;,I;23@<,J2<B'5(<+D,K1++;D;4L

! "#"$%"& ' "( )#*&+ (*, -. /*$0&1 2$$"0"%

!"#$%&'()''*"+(,-'*". "#&"/'' 0 '*+'1"2/""'345 . 6,5&6(,'7$,"'89::

R'*'*''KDR1B'>?@@3A3'>K=RA=R=>K3!!S

;/5,+C'DDDE'>C". 6#&/F

*3 0 3*G3!'<=**

!"#*$"&%*%(	!"#*$!&+,)(	!"#*$$&%''(	!"#*$'&%+"(
!"#*$%&%'+(	!"#*$+&%)#(	!"#*$)&%'*(	!"#*$#&%*+(
!"#*',&%!$(	!"#*'"&%+%(	!"#*'!&%,"(	!"#*'$&%+#(

R'*'*''KDR1B'>?@@3A3'>K=RA=R=>K3!!S

;/5,+C'DDDE'>C". 6#&/F

<=<3!'<=**

8:HVIV

>K'89IE >K'89JE >K'89LE >K'89ME

%1 0 9:33;

<=>?<><?@<

0000000000000000000000000000(AB"

7)6+.)33/.0)*0#$-5:6-+:)6;

!"#!$#"!%" &'()*+,-.,,/'0123,/'4'(+'5,,6,/0,7'85'',9:;4<2;+<12,=)2',"!%%

R

>14?<*'3,)(<28,+@',!"#$%#&',(1.+A;5',3'B'*1?'3,CD,,()*+,-./0 1/2/3)45/6+0'/-50;+,

7#'#8EF;5''G(@;,H@;B;2E,6;@;+4;,I;23@<,J2<B'5(<+D,K1++;D;4L

! "#"$%"& ' "()#*&+(*,-./*$0&12$$"0"%

!"#$%&'()''*"+(,-'*".'"#&"/''0'*+'1"2/""'345.6,5&6(,'7$,"'89::

*';''>?@@3A3'>K=RA=R=>K3!!S

;/5,+C'DDDE'>C".6#&/F

*3033*G3!'<=**

!!,","&%'%(	!!,",!&%+$(	!!,",$&%",(	!!,",'&%+"(
!!,",%&%"+(	!!,",+&%%+(	!!,",)&'+)(	!!,",#&'*)(
!!,"",&%**(	!!,"""&%+%(	!!,""!&%$"(	!!,""$&%!+(
!!,""'&%"'(	!!,""+&'*#(	!!,""*&%)!(	!!,""#&%'+(
!!,"!,&%!)(	!!,"!"&%"$(	!!,"!!&%+#(	

*';''>?@@3A3'>K=RA=R=>K3!!S

;/5,+C'DDDE'>C".6#&/F

<=<3!'<=**

889:9V

>K'89IE >K'89NE >K'89JE >K'89LE >K'89ME

889::J

>K'89NE >K'89JE >K'89LE >K'89ME

889::M

>K'89JE >K'89LE >K'89ME

%109:33;

<=>?<><?@<

0000000000000000000000000000(AB"

7)6+.)33/.0)*0#$-5:6-+:)6;

!"#!$#"!%" &'()*+,-.,,/'0123,/'4'(+'5,,6,/0,7'85'',9:;4<2;+<12,=)2',"!%% %!

>14?<*'3,)(<28,+@',!"#$%#&',(1.+A;5',3'B'*1?'3,CD,,()*+,-./01/2/3)45/6+0'/-50;+,

7#'#8EF;5''G(@;,H@;B;2E,6;@;+4;,I;23@<,J2<B'5(<+D,K1++;D;4L

! "#"$%"& ' "()#*&+(*,-./*$0&12$$"0"%

!"#$%&'()''*"+(,-'*".'"#&"/''0'*+'1"2/""'345.6,5&6(,'7$,"'89::

G'1?0DRD>'>?@@3A3'O=R7D!=<<=@@S

;/5,+C'DDDE'>C".6#&/F

*3 0 3*G3!'<=**

!!,$#"&%',(!!,$#!&+,#(!!,$#$&%'!(!!,$#)&%$'(

!!,$##&'#,(

G'1?0DRD>'>?@@3A3'O=R7D!=<<=@@S

;/5,+C'DDDE'>C".6#&/F

<=<3!'<=**

889IHN

>K'89JE >K'89LE >K'89ME

889IHJ

>K'89:E >K'89JE >K'89LE >K'89ME

889IHV

>K'89JE >K'89LE >K'89ME

%109:33;

<=>?<><?@<

0000000000000000000000000000(AB"

7)6+.)33/.0)*0#$-5:6-+:)6;

!"#!$#"!%" &'()*+,-.,,/'0123,/'4'(+'5,,6,/0,7'85'',9:;4<2;+<12,=)2',"!%% %%

>14?<*'3,)(<28,+@',!"#$%#&',(1.+A;5',3'B'*1?'3,CD,,()*+,-./01/2/3)45/6+0'/-50;+,

7#'#8EF;5''G(@;,H@;B;2E,6;@;+4;,I;23@<,J2<B'5(<+D,K1++;D;4L

! "#"$%"& ' "()#*&+(*,-./*$0&12$$"0"%

!"#$%&'()''*"+(,-'*".'#&"/''0'*+'1"2/""'345.6,5&6(,'7$,"'89::

G'A3?!A3'>?@@3A3'=!BQDGKB!=

;/5,+C'DDDE'>C".6#&/F

*303*G3!'<=**

!!,'%"&%'+(	!!,'%!&%)"(	!!,'%$&%%#(	!!,'%'&%$+(
!!,'%%&%$!(	!!,'%+&%$#(	!!,'%)&%'+(	!!,'%*&'*#(
!!,'%#&%")(	!!,'+,&%+%(	!!,'+"&%),(	

%1090:33;
<=>?<><?@<

0000000000000000000000000000(AB"
7)6+.)33/.0)*0#$-5:6-+:)6;

!"#!$#"!%" &'()*+,-.,,/'0123,/'4'(+'5,,6,/0,7'85'',9:;4<2;+<12,=)2',"!%% %"

>14?<*'3,)(<28,+@',!"#$%#&',(1.+A;5',3'B'*1?'3,CD,,()*+,-./0 1/2/3)45/6+0'/-50;+,
7#'#8EF;5''G(@;,H@;B;2E,6;@;+4;,I;23@<,J2<B'5(<+D,K1++;D;4L

! "#"$%"& ' "()#*&+(*,-./*$0&12$$"0"%

!"#$%&'()''*"+(,-'*".'"#&"/''0'*+'1"2/""'345.6,5&6(,'7$,"'89::

G'0=!S'>?@@3A3'0=R=!O=1

;/5,+C'DDDE'>C".6#&/F

*3 0 3*G3!'<=**

!!,%#$&%+,(!!,%#'&%%'(!!,%#%&%,#(!!,%#+&%"*(

!!,%#*&'#*(!!,%##&%++(

G'0=!S'>?@@3A3'0=R=!O=1

;/5,+C'DDDE'>C".6#&/F

<=<3!'<=**

889JH8

>K'89:E >K'89NE >K'89JE >K'89LE >K'89ME

889JHM

>K'89:E >K'89IE >K'89JE >K'89LE >K'89ME

%109:33;

<=>?<><?@<

0000000000000000000000000000(AB"

7)6+.)33/.0)*0#$-5:6-+:)6;

!"#!$#"!%" &'()*+,-.,,/'0123,/'4'(+'5,,6,/0,7'85'',9:;4<2;+<12,=)2',"!%% %$

>14?<*'3,)(<28,+@',!"#$%#&',(1.+A;5',3'B'*1?'3,CD,,()*+,-./01/2/3)45/6+0'/-50;+,

7#'#8EF;5''G(@;,H@;B;2E,6;@;+4;,I;23@<,J2<B'5(<+D,K1++;D;4L

! "#"$%"& ' "()#*&+(*,-./*$0&12$$"0"%

!"#$%&'()''*"+(,-'*".'"#&"/''0'*+'1"2/""'345.6,5&6(,'7$,"'89::

G'GK?0='>?@@3A3''<=@=

;/5,+C'DDDE'>C".6#&/F

*3033*G3!'<=**

!!,)!"&%)+(	!!,)!$&%$'(	!!,)!'&%,!(	!!,)!%&%",(
!!,)!)&+,'(	!!,)!*&%!!(	!!,)!#&+$$(	!!,)$,&%!+(
!!,)$"&%#)(	!!,)$!&'##(	!!,)$$&%*,(	!!,)$'&%"%(
!!,)$%&%)$(	!!,)$)&%$*(	!!,)$*&%!"(	!!,)$#&%))(

G'GK?0='>?@@3A3''<=@=

;/5,+C'DDDE'>C".6#&/F

<=<3!'<=**

889M88

>K'89:E	>K'89JE	>K'89LE	>K'89ME

889M8L

>K'89:E	>K'89NE	>K'89JE	>K'89LE	>K'89ME

889MIL

>K'89:E	>K'89JE	>K'89LE	>K'89ME

%1090:33;
<=>?<><?@<

0000000000000000000000000000(AB"
7)6+.)33/.0)*0#$-5:6-+:)6;

!"#!$#"!%" &'()*+,-.,,/'0123,/'4'(+'5,,6,/0,7'85'',9:;4<2;+<12,=)2',"!%% %M

>14?<*'3,)(<28,+@',!"#$%#&',(1.+A;5',3'B'*1?'3,CD,,()*+,-./01/2/3)45/6+0'/-50;+,
7#'#8EF;5''G(@;,H@;B;2E,6;@;+4;,I;23@<,J2<B'5(<+D,K1++;D;4L

! "#"$%"& ' "( )#*&+(*,-./*$0&12$$"0"%

!"#$%&'()''*"+(,-'*"."#&"/''0'*+'1"2/""'345.6,5&6(,'7$,"'89::

R3U0=R'>?@@3A3'GK?1B<BPK=

;/5,+C'DDDE'>C".6#&/F

*303*G3!'<=**

!"##,"&%'$(!"##,!&%'#(!"##,'&%$+(!"##,%&%"#(

!"##,+&%,)(!"##,)&%$,(!"##,*&%"!(!"##,#&%!!(

!"##",&%+*(!"##""&'#*(!"##"!&%+#(

R3U0=R'>?@@3A3'GK?1B<BPK=

;/5,+C'DDDE'>C".6#&/F

<=<3!'<=**

8:HH9I

>K'89IE >K'89JE >K'89LE >K'89ME

%109:33;

<=>?<><?@<

0000000000000000000000000000(AB"

7)6+.)33/.0)*0#$-5:6-+:)6;

!"#!$#"!%" &'()*+,-.,,/'0123,/'4'(+'5,,6,/0,7'85'',9:;4<2;+<12,=)2',"!%% %N

>14?<*'3,)(<28,+@',!"#$%#&',(1.+A;5',3'B'*1?'3,CD,,()*+,-./01/2/3)45/6+0'/-50;+,

7#'#8EF;5''G(@;,H@;B;2E,6;@;+4;,I;23@<,J2<B'5(<+D,K1++;D;4L

! "#"$%"& ' "()#*&+(*,-./*$0&12$$"0"%

!"#$%&'()''*"+(,-'*".'"#&"/''0'*+'1"2/""'345.6,5&6(,'7$,"'89::

<=Q=R=G0='>?@@3A3''0B!D>O=**3!!S

;/5,+C'DDDE'>C".6#&/F

*3033*G3!'<=**

!!,,$!&%,*(!!,,$$&%%!(!!,,$%&%"'(!!,,$+&%""(

!!,,$)&%#+(!!,,$*&%'%(!!,,$#&%)+(!!,,'"&%"+(

!!,,'!&'#$(!!,,'$&'#)(!!,,''&%!+(!!,,'%&%$*(

!!,,'+&'#*(

<=Q=R=G0='>?@@3A3''0B!D>O=**3!!S

;/5,+C'DDDE'>C".6#&/F

<=<3!'<=**

8899I:

>K'89JE >K'89LE >K'89ME

8899N9

>K'898E >K'89NE >K'89JE >K'89LE >K'89ME

%1099:33;

<=>?<><?@<

000000000000000000000000000(AB"

7)6+.)33/.0)*0#$-5:6-+:)6;

!"#!$#"!%" &'()*+,-.,,/'0123,/'4'(+'5,,6,/0,7'85'',9:;4<2;+<12,=)2',"!%% %0

>14?<*'3,)(<28,+@',!"#$%#&',(1.+A;5',3'B'*1?'3,CD,,()*+,-./01/2/3)45/6+0'/-50;+,

7#'#8EF;5''G(@;,H@;B;2E,6;@;+4;,I;23@<,J2<B'5(<+D,K1++;D;4L

! "#"$%"& ' "()#*&+(*,-./*$0&12$$"0"%

!"#$%&'()''*"+(,-'*".'#&"/''0'*+'1"2/""'345.6,5&6(,'7$,"'89::

*G'7?*3<K*'>?@@3A3'0??@=0=GG?0

;/5,+C'DDDE'>C".6#&/F

*303*G3!'<=**

!!,%!"&%#$(	!!,%!!&%+)(	!!,%!$&%%%(	!!,%!'&%"#(
!!,%!%&%*%(	!!,%!+&%)'(	!!,%!)&'#$(	!!,%!*&+!*(
!!,%!#&%"'(	!!,%$,&'*+(	!!,%$"&%)%(	!!,%$!&%")(

%1091:33;
<=>?<><?@<

0000000000000000000000000000(AB"
7)6+.)33/.0)*0#$-5:6-+:)6;

!"#!$#"!%" &'()*+,-.,,/'0123,/'4'(+'5,,6,/0,7'85'',9:;4<2;+<12,=)2',"!%% %P

>14?<*'3,)(<28,+@',!"#$%#&',(1.+A;5',3'B'*1?'3,CD,,()*+,-./01/2/3)45/6+0'/-50;+,
7#'#8EF;5''G(@;,H@;B;2E,6;@;+4;,I;23@<,J2<B'5(<+D,K1++;D;4L

! "#"$%"& ' "()#*&+(*,-./*$0&12$$"0"%

!"#$%&'()''*"+(,-'*".'"#&"/''0'*+'1"2/""'345.6,5&6(,'7$,"'89::

>?>KDR'>?@@3A3'O?>KD

;/5,+C'DDDE'>C".6#&/F

*303*G3!'<=**

!"#!)"&'#)(!"#!)$&%$!(!"#!)'&%!,(!"#!)%&%$,(
!"#!)+&%!#(!"#!))&'#'(!"#!)*&%!%(!"#!)#&'**(
!"#!*,&%'#(!"#!*"&%"*(!"#!*!&%",(!"#!**&%")(
!"#!*#&%!"(!"#!#,&%$$(!"#!#$&%%'(

>?>KDR'>?@@3A3'O?>KD

;/5,+C'DDDE'>C".6#&/F

<=<3!'<=**

8:H8M8
>K'89JE >K'89LE >K'89ME

8:H8VN
>K'89:E >K'898E >K'89NE >K'89JE >K'89LE >K'89ME

8:H8VJ
>K'89JE >K'89LE >K'89ME

8:H8VL
>K'89JE >K'89LE >K'89ME

8:H8VM
>K'89JE >K'89LE >K'89ME

8:H8H:
>K'89:E >K'898E >K'89NE >K'89JE >K'89LE >K'89ME

8:H8H8
>K'898E >K'89JE >K'89LE >K'89ME

%1091:33;
<=>?<><?@<

0000000000000000000000000000(AB"
7)6+.)33/.0)*0#$-5:6-+:)6;

!"#!$#"!%" &'()*+,-.,,/'0123,/'4'(+'5,,6,/0,7'85'',9:;4<2;+<12,=)2',"!%% %Q

>14?<*'3,)(<28,+@',!"#$%#&',(1.+A;5',3'B'*1?'3,CD,,()*+,-./01/2/3)45/6+0'/-50;+,
7#'#8EF;5''G(@;,H@;B;2E,6;@;+4;,I;23@<,J2<B'5(<+D,K1++;D;4L

! "#"$%"& ' "()#*&+(*,-./*$0&12$$"0"%

!"#$%&'()''*"+(,-'*".'"#&"/''0'*+'1"2/""'345.6,5&6(,'7$,"'89::

0=K=!=7=*'>?@@3A3'3!R=0B@=0

;/5,+C'DDDE'>C".6#&/F

*303*G3!'<=**

!"#+$+&%$+(!"#+$*&%!"(

0=K=!=7=*'>?@@3A3'3!R=0B@=0

;/5,+C'DDDE'>C".6#&/F

<=<3!'<=**

8:HLI:

>K'89JE >K'89LE >K'89ME

8:HLI8

>K'89NE >K'89JE >K'89LE >K'89ME

8:HLII

>K'89NE >K'89JE >K'89LE >K'89ME

8:HLIN

>K'89NE >K'89JE >K'89LE >K'89ME

8:HLIJ

>K'898E >K'89NE

8:HLIM

>K'89:E >K'89NE >K'89JE >K'89LE >K'89ME

8:HLIH

>K'89NE >K'89JE >K'89LE >K'89ME

%1099:33;

<=>?<><?@<

0000000000000000000000000000(AB"

7)6+.)33/.0)*0#$-5:6-+:)6;

!"#!$#"!%" &'()*+,-.,,/'0123,/'4'(+'5,,6,/0,7'85'',9:;4<2;+<12,=)2',"!%% %R

>14?<*'3,)(<28,+@',!"#$%#&',(1.+A;5',3'B'*1?'3,CD,,()*+,-./01/2/3)45/6+0'/-50;+,

7#'#8EF;5''G(@;,H@;B;2E,6;@;+4;,I;23@<,J2<B'5(<+D,K1++;D;4L

! "#"$%"& ' "()#*&+(*,-./*$0&12$$"0"%

!"#$%&'()''*"+(,-'*".'"#&"/''0'*+'1"2/""'345.6,5&6(,'7$,"'89::

0=!'=GK=R=*DB*'>?@@3A3'O?GK=0=RA=@=0

;/5,+C'DDDE'>C".6#&/F

*303*G3!'<=**

!"#+#!&%+"(!"#+#$&%!"(!"#+#'&'*'(!"#+#%&%$,(

!"#+#+&%#+(!"#+#)&+,'(!"#+##&%'$(!"#),"&+%!(

!"#),!&+,'(!"#),$&%)+(

0=!'=GK=R=*DB*'>?@@3A3'O?GK=0=RA=@=0

;/5,+C'DDDE'>C".6#&/F

<=<3!'<=**

8:HLH:

>K'89JE >K'89LE >K'89ME

8:HLHV

>K'89:E >K'89JE >K'89LE >K'89ME

8:HM99

>K'89:E >K'89IE >K'89JE >K'89LE >K'89ME

%1@9:33;

<=>?<><?@<

@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@(AB"

7)6+.)33/.@)*@#$-5:6-+:)6;

!"#!$#"!%" &'()*+,-.,,/'0123,/'4'(+'5,,6,/0,7'85'',9:;4<2;+<12,=)2',"!%% "!

>14?<*'3,)(<28,+@',!"#$%#&',(1.+A;5',3'B'*1?'3,CD,,()*+,-./@1/2/3)45/6+@'/-5@;+,

7#'#8EF;5''G(@;,H@;B;2E,6;@;+4;,I;23@<,J2<B'5(<+D,K1++;D;4L

! "#"$%"& ' "()#*&+(*,-./*$0&12$$"0"%

!"#$%&'()''*"+(,-'*".'"#&"/''0'*+'1"2/""'345.6,5&6(,'7$,"'89::

RD!0=@='>?@@3A3''0BQ=GGB<BPK=

;/5,+C'DDDE'>C".6#&/F

*303*G3!'<=**

!"##+"&'#)(!"##+!&%,*(!"##+$&%!)(!"##+%&%*!(

!"##++&'*,(!"##+)&+"'(!"##+#&%)'(!"##),&%!$(

RD!0=@='>?@@3A3''0BQ=GGB<BPK=

;/5,+C'DDDE'>C".6#&/F

<=<3!'<=**

8:HHLN

>K'89JE >K'89LE >K'89ME

8:HHLV

>K'89JE >K'89LE >K'89ME

8:HHM:

>K'898E >K'89JE >K'89LE >K'89ME

8:HHM8

>K'898E >K'89JE >K'89LE >K'89ME

%109:33;

<=>?<><?@<

0000000000000000000000000000(AB"

7)6+.)33/.0)*0#$-5:6-+:)6;

!"#!$#"!%" &'()*+,-.,,/'0123,/'4'(+'5,,6,/0,7'85'',9:;4<2;+<12,=)2',"!%% "%

>14?<*'3,)(<28,+@',!"#$%#&',(1.+A;5',3'B'*1?'3,CD,,()*+,-./01/2/3)45/6+0'/-50;+,

7#'#8EF;5''G(@;,H@;B;2E,6;@;+4;,I;23@<,J2<B'5(<+D,K1++;D;4L

! "#"$%"& ' "()#*&+(*,-./*$0&12$$"0"%

!"#$%&'()''*"+(,-'*".'#&"/''0'*+'1"2/""'345.6,5&6(,'7$,"'89::

*'K''>?@@3A3'GK3Q=!=

;/5,+C'DDDE'>C".6#&/F

*303*G3!'<=**

!!,"*"&%)"(!!,"*!&%%+(!!,"*$&%)$(!!,"*'&%%$(
!!,"*%&')*(!!,"*+&%!)(!!,"*)&%,!(!!,"**&'#%(
!!,"*#&%+)(!!,"#,&%#)(!!,"#"&%+%(!!,"#!&%!$(
!!,"#$&%)'(!!,"#'&'#,(!!,"#+&%"$(!!,"#)&'*'(
!!,"#*&%'*(!!,"##&%)+(

%1090:33;
<=>?<><?@<

0000000000000000000000000000(AB"
7)6+.)33/.0)*0#$-5:6-+:)6;

!"#!$#"!%" &'()*+,-.,,/'0123,/'4'(+'5,,6,/0,7'85'',9:;4<2;+<12,=)2',"!%% ""

>14?<*'3,)(<28,+@',!"#$%#&',(1.+A;5',3'B'*1?'3,CD,,()*+,-./01/2/3)45/6+0'/-50;+,
7#'#8EF;5''G(@;,H@;B;2E,6;@;+4;,I;23@<,J2<B'5(<+D,K1++;D;4L

! "#"$%"& ' "()#*&+(*,-./*$0&12$$"0"%

!"#$%&'()''*"+(,-'*".'"#&"/''0'*+'1"2/""'345.6,5&6(,'7$,"'89::

*'R'0'>?@@3A3'0=@D=RO=!='0??GK=OBRR=0

;/5,+C'DDDE'>C".6#&/F

*303*G3!'<=**

!!,!%"&%+'(!!,!%!&'#$(!!,!%+&%+%(!!,!%)&%!)(

!!,!%*&%+!(!!,!%#&%*+(!!,!+"&%"+(

*'R'0'>?@@3A3'0=@D=RO=!='0??GK=OBRR=0

;/5,+C'DDDE'>C".6#&/F

<=<3!'<=**

8898JI

>K'898E >K'89NE >K'89JE >K'89LE >K'89ME

8898JN

>K'89:E >K'89JE >K'89LE >K'89ME

8898JJ

>K'898E >K'89NE >K'89JE >K'89LE >K'89ME

8898L9

>K'898E >K'89JE >K'89LE >K'89ME

8898L8

>K'89JE >K'89LE >K'89ME

8898LI

>K'89JE >K'89LE >K'89ME

8898LN

>K'89JE >K'89LE >K'89ME

%109:33;

<=>?<><?@<

0000000000000000000000000000(AB"

7)6+.)33/.0)*0#$-5:6-+:)6;

!"#!$#"!%" &'()*+,-.,,/'0123,/'4'(+'5,,6,/0,7'85'',9:;4<2;+<12,=)2',"!%% "$

>14?<*'3,)(<28,+@',!"#$%#&',(1.+A;5',3'B'*1?'3,CD,,()*+,-./01/2/3)45/6+0'/-50;+,

7#'#8EF;5''G(@;,H@;B;2E,6;@;+4;,I;23@<,J2<B'5(<+D,K1++;D;4L

! "#"$%"& ' "()#*&+(*,-./*$0&12$$"0"%

!"#$%&'()''*"+(,-'*".'"#&"/''0'*+'1"2/""'345.6,5&6(,'7$,"'89::

G'=@;3!G'>?@@3A3'3!R=0B@=0

;/5,+C'DDDE'>C".6#&/F

*3 0 3*G3!'<=**

!!,$!"&%)*(!!,$!+&%!*(!!,$!)&%+"(!!,$!*&%!!(

!!,$$"&%+!(!!,$$!&%!+(

G'=@;3!G'>?@@3A3'3!R=0B@=0

;/5,+C'DDDE'>C".6#&/F

<=<3!'<=**

889I88

>K'89JE >K'89LE

889I8H

>K'89:E >K'898E >K'89JE >K'89LE >K'89ME

889II9

>K'898E >K'89JE >K'89LE >K'89ME

%109:33;

<=>?<><?@<

0000000000000000000000000000(AB"

7)6+.)33/.0)*0#$-5:6-+:)6;

!"#!$#"!%" &'()*+,-.,,/'0123,/'4'(+'5,,6,/0,7'85'',9:;4<2;+<12,=)2',"!%% "M

>14?<*'3,)(<28,+@',!"#$%#&',(1.+A;5',3'B'*1?'3,CD,,()*+,-./01/2/3)45/6+0'/-50;+,

7#'#8EF;5''G(@;,H@;B;2E,6;@;+4;,I;23@<,J2<B'5(<+D,K1++;D;4L

! "#"$%"& ' "()#*&+(*,-./*$0&12$$"0"%

!"#$%&'()''*"+(,-'*".'"#&"/''0'*+'1"2/""'345.6,5&6(,'7$,"'89::

G'<=B@'>?@@3A3'O=@=0=**3!!S

;/5,+C'DDDE'>C".6#&/F

*303*G3!'<=**

!!,+%!&')%(!!,++"&'*"(!!,++!&%%*(!!,++)&%!'(

G'<=B@'>?@@3A3'O=@=0=**3!!S

;/5,+C'DDDE'>C".6#&/F

<=<3!'<=**

889LJ:
>K'898E >K'89NE >K'89JE >K'89LE >K'89ME

889LJI
>K'89JE >K'89LE >K'89ME

889LJN
>K'89NE >K'89JE >K'89LE >K'89ME

889LJL
>K'89JE >K'89LE >K'89ME

889LJM
>K'89:E >K'89NE >K'89JE >K'89LE >K'89ME

889LJV
>K'89NE >K'89JE >K'89LE >K'89ME

889LJH
>K'89NE >K'89JE >K'89LE >K'89ME

889LL9
>K'89NE >K'89JE >K'89LE >K'89ME

889LLI
>K'89NE >K'89JE >K'89LE >K'89ME

889LLN
>K'89NE >K'89JE >K'89LE >K'89ME

889LLJ
>K'89NE >K'89JE >K'89LE >K'89ME

889LLL
>K'898E >K'89NE >K'89JE >K'89LE >K'89ME

889LLV
>K'89NE >K'89JE >K'89LE >K'89ME

%1@9:33;
<=>?<><?@<

@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@(AB"
7)6+.)33/.@)*@#$-5:6-+:)6;

!"#!$#"!%" &'()*+,-.,,/'0123,/'4'(+'5,,6,/0,7'85'',9:;4<2;+<12,=)2',"!%% "N

>14?<*'3,)(<28,+@',!"#$%#&',(1.+A;5',3'B'*1?'3,CD,,()*+,-./@1/2/3)45/6+@'/-5@;+,
7#'#8EF;5''G(@;,H@;B;2E,6;@;+4;,I;23@<,J2<B'5(<+D,K1++;D;4L

! "#"$%"& ' "()#*&+(*,-./*$0&12$$"0"%

!"#$%&'()''*"+(,-'*".'"#&"/''0'*+'1"2/""'345.6,5&6(,'7$,"'89::

B'>'>?@@3A3'=@BQ=

;/5,+C'DDDE'>C".6#&/F

*303*G3!'<=**

!!"$$!&%$!(!!"$$$&%'+(!!"$$'&%!%(!!"$$+&%*)(

!!"$$)&%%*(!!"$$#&%#,(!!"$',&%%"(!!"$'"&'##(

B'>'>?@@3A3'=@BQ=

;/5,+C'DDDE'>C".6#&/F

<=<3!'<=**

88:II:

>K'89IE >K'89NE >K'89JE >K'89LE >K'89ME

88:IIJ

>K'89JE >K'89LE >K'89ME

88:IIV

>K'89JE >K'89LE >K'89ME

%109:33;

<=>?<><?@<

0000000000000000000000000000(AB"

7)6+.)33/.0)*0#$-5:6-+:)6;

!"#!$#"!%" &'()*+,-.,,/'0123,/'4'(+'5,,6,/0,7'85'',9:;4<2;+<12,=)2',"!%% "0

>14?<*'3,)(<28,+@',!"#$%#&',(1.+A;5',3'B'*1?'3,CD,,()*+,-./01/2/3)45/6+0'/-50;+,

7#'#8EF;5''G(@;,H@;B;2E,6;@;+4;,I;23@<,J2<B'5(<+D,K1++;D;4L

!"#$%&'()''*"+(,-'*". "#&"/'' 0 '*+'1"2/""'345 . 6,5&6(,'7$,"'89::

DR1D!='A=R1KD'>?@@3A3'?T'=!G*'=R1'*>D3R>3''O?GK=0=RA=@=0

;/5,+C'DDDE'>C". 6#&/F

*303*G3!'<=**

!"#%+"&%"#(!"#%+'&%"*(!"#%+)&')*(!"#%)$&'#!(

!"#%)'&'%#(!"#%)%&'+,(

DR1D!='A=R1KD'>?@@3A3'?T'=!G*'=R1'*>D3R>3''O?GK=0=RA=@=0

;/5,+C'DDDE'>C". 6#&/F

<=<3!'<=**

8:HJL8

>K'89:E >K'89IE >K'89JE >K'89LE >K'89ME

8:HJLI

>K'89JE >K'89LE >K'89ME

8:HJLJ

>K'89:E >K'898E >K'89JE >K'89LE >K'89ME

8:HJLL

>K'89:E >K'89JE >K'89LE >K'89ME

8:HJLV

>K'89JE >K'89LE

8:HJM9

>K'89JE >K'89LE >K'89ME

8:HJM:

>K'89IE >K'89JE >K'89LE >K'89ME

8:HJM8

>K'89JE >K'89LE

8:HJML

>K'89JE >K'89LE >K'89ME

%1090:33;

<=>?<><?@<

0000000000000000000000000000(AB"

7)6+.)33/.0)*0#$-5:6-+:)6;

!"#!$#"!%" &'()*+,-.,,/'0123,/'4'(+'5,,6,/0,7'85'',9:;4<2;+<12,=)2',"!%% "P

>14?<*'3,)(<28,+@',!"#$%#&',(1.+A;5',3'B'*1?'3,CD,,()*+,-./01/2/3)45/6+0'/-50;+,

7#'#8EF;5''G(@;,H@;B;2E,6;@;+4;,I;23@<,J2<B'5(<+D,K1++;D;4L

! "#"$%"& ' "( )#*&+ (*, - . /*$0&1 2$$"0"%

!"#$%&'()''*"+(,-'*" . "#&"/'' 0 '*+'1"2/""'345 . 6,5&6(,'7$,"'89::

%1090:33;
<=>?<><?@<

000000000000000000000000000000(AB"
7)6+.)33/.0)*0#$-5:6-+:)6;

!"#!$#"!%" &'()*+, - .,,/'0123,/'4'(+'5,, 6,/0,7'85'',9:;4<2;+<12,=)2',"!%% "Q

>14?<*'3,)(<28,+@',!"#$%#&',(1.+A;5',3'B'*1?'3,CD,,()*+, -./01/2/3)45/6+0'/-50;+,
7#'#8EF;5''G(@;,H@;B;2E,6;@;+4;,I;23@<,J2<B'5(<+D,K1++;D;4L

! "#"$%"& ' "( )#*&+(*, -. /*$0&12$$"0"%

!"#$%&'()''*"+(,-'*". "#&"/'' 0'*+'1"2/""'*$33%". ",&4/5'674 . 8,4&8(,'9$,"':;<<

1'='>? 0>?'@ABB6C6'>?!D 0?B?

=/4,+E'FFF6'@E". 8#&/5

*606*H6!'>?**

I 8%

>?>6!'>?**

I 8%

%2*:;44<
=>?@=?=@A=

+B℃"
8,7.1,44)1*,-*#$06;70.;,7<

!"#!$#"!%" "#$%&'()*((+#,-./(+#0#$'#1((2(+,(3#41##(+%55&#0#.'617(8960:.6':-.(;%.#(<=!!

>-05:&#/(%$:.4('?#(!"#$%#&'($-*'@61#(/#A#&-5#/(B7('()*+,-./01)*2)3)4,56)7.*')06*6'(
8#'#9℃D61##E$?6(F?6A6.℃(26?6'06(G6./?:(H.:A#1$:'7(I-''6760J

! "#"$%"& ' "()#*&+(*,-./*$0&12$$"0"%

!"#$%&'()''*"+(,-'*".'#&"/''0'*+'1"2/""'*$33%".",&4/5'674.8,4&8(,'9$,"':;<<

0?!HJA0?'@ABB6C6'KDHH?>DLJ?''HJF!DM?BB?

=/4,+E'FFFG'@E".8#&/5

*606*H6!'>?**

N<OOPOQR;ST

0?!HJA0?'@ABB6C6'KDHH?>DLJ?''HJF!DM?BB?

>?>6!'>?**

N<OOPU'

@J':;:G

%2*:;44<
=>?@=?=@A=

+B%"
8,7.1,44)1*,-*#$06;70.;,7<

!"#!$#"!%" "#$%&'()*((+#,-./(+#0#$'#1((2(+,(3#41##(+%55&#0#.'617(8960:.6':-.(;%.#(<=!!

<

>-05:&#/(%$:.4('?#(!"#$%#&'($-*'@61#(/#A#&-5#/(B7('()*+,-./01)*2)3)4,56)7.*')06*6'(
8#'#9%D61##E$?6(F?6A6.%(26?6'06(G6./?:(H.:A#1$:'7(I-''6760J

! "#"$%"& ' "()#*&+(*,-./*$0&12$$"0"%

!"#$%&'()''*"+(,-'*".'#&"/''0'*+'1"2/""'*$33%".",&4/5'674.8,4&8(,'9$,"':;<<

H'HJA0?'@ABB6C6'!?IIF

=/4,+E'FFFG'@E".8#&/5

*6 0 6*H6!'>?**

N<OR;:QONNT

H'HJA0?'@ABB6C6'!?IIF

>?>6!'>?**

N<OR;<'

@J':;:G @J':;UG

%2*:;44<
=>?@=?=@A=

+BC"
8,7.1,44)1*,-*#$06;70.;,7<

K

!"#!$#"!%" "#$%&'()*((+#,-./(+#0#$'#1((2(+,(3#41##(+%55&#0#.'617(8960:.6':-.(;%.#(<=!!

>-05:&#/(%$:.4('?#(!"#$%#&'($-*'@61#(/#A#&-5#/(B7('()*+,-./01)*2)3)4,56)7.*')06*6'(
8#'#9CD61##E$?6(F?6A6.C(26?6'06(G6./?:(H.:A#1$:'7(I-''6760J

! "#"$%"& ' "()#*&+(*,-./*$0&12$$"0"%

!"#$%&'()''*"+(,-'*".'#&"/''0'*+'1"2/""'*$33%".",&4/5'674.8,4&8(,'9$,"':;<<

=?*6BFD*'@ABB6C6'KAHH?V?0

=/4,+E'FFFG'@E".8#&/5

*6 0 6*H6!'>?**

N<O;;UQOP;T

=?*6BFD*'@ABB6C6'KAHH?V?0

>?>6!'>?**

N<O;;:'

@J':;OG

%2*:;44<
=>?@=?=@A=

+BC"
8,7.1,44)1*,-*#$06;70.;,7<

!"#!$#"!%" "#$%&'()*((+#,-./(+#0#$'#1((2(+,(3#41##(+%55&#0#.'617(8960:.6':-.(;%.#(<=!!

>-05:&#/(%$:.4('?#(!"#$%#&'($-*'@61#(/#A#&-5#/(B7('()*+,-./01)*2)3)4,56)7.*')06*6'(
8#'#9CD61##E$?6(F?6A6.C(26?6'06(G6./?:(H.:A#1$:'7(I-''6760J

! "#"$%"& ' "()#*&+(*,-./*$0&12$$"0"%

!"#$%&'()''*"+(,-'*".'#&"/''0'*+'1"2/""'*$33%".",&4/5'674.8,4&8(,'9$,"':;<<

=F* JA>'KD!F?B?@J6!!V'@ABB6C6'WA!'XA06I'?0?B?CF!F

=/4,+E'FFFG'@E".8#&/5

*6 0 6*H6!'>?**

N<O<P<QOSNT N<O<PPQOSST N<O<PNQONPT

>?>6!'>?**

I 8%

%2*:;44<
=>?@=?=@A=

+BC"
8,7.1,44)1*,-*#$06;70.;,7<

M

!"#!$#"!%" "#$%&'()*((+#,-./(+#0#$'#1((2(+,(3#41##(+%55&#0#.'617(8960:.6':-.(;%.#(<=!!

>-05:&#/(%$:.4('?#(!"#$%#&'($-*'@61#(/#A#&-5#/(B7('()*+,-./01)*2)3)4,56)7.*')06*6'(
8#'#9CD61##E$?6(F?6A6.C(26?6'06(G6./?:(H.:A#1$:'7(I-''6760J

! "#"$%"& ' "()#*&+(*,-./*$0&12$$"0"%

@'0'*'@ABB6C6'KAHH?V?0

=/4,+E'FFFG'@E".8#&/5

*6 0 6*H6!'>?**

N<O;:OQOSRT

@'0'*'@ABB6C6'KAHH?V?0

>?>6!'>?**

N<O;:<'

@J':;UG

%2':;44<
=>?@=?=@A=

+B℃"
8,7.1,44)1',-'#$06;70.;,7<

N

!"#!$#"!%" "#$%&'()*((+#,-./(+#0#$'#1((2(+,(3#41##(+%55&#0#.'617(8960:.6':-.(;%.#(<=!!

>-05:&#/(%$:.4('?#(!"#$%#&'($-*'@61#(/#A#&-5#/(B7('()*+,-./01)*2)3)4,56)7.*')06*6'(
8#'#9℃D61##E$?6(F?6A6.℃(26?6'06(G6./?:(H.:A#1$:'7(I-''6760J

! "#"$%"& ' "()#*&+(*,-./*$0&12$$"0"%

!"#$%&'()''*"+(,-'*".'#&"/''0'*+'1"2/""'*$33%".",&4/5'674.8,4&8(,'9$,"':;<<

16M?0?HJ?'@ABB6C6'KD!?MFB?IC?1

=/4,+E'FFFG'@E".8#&/5

*6 0 6*H6!'>?**

N<O;O:QOSYT N<O;OUQOY;T

>?>6!'>?**

I8%

%2*:;44<
=>?@=?=@A=

+B℃"
8,7.1,44)1*,-*#$06;70.;,7<

!"#!$#"!%" "#$%&'()*((+#,-./(+#0#$'#1((2(+,(3#41##(+%55&#0#.'617(8960:.6':-.(;%.#(<=!!

0

>-05:&#/(%$:.4('?#(!"#$%#&'($-*'@61#(/#A#&-5#/(B7('()*+,-./01)*2)3)4,56)7.*')06*6'(
8#'#9℃D61##E$?6(F?6A6.℃(26?6'06(G6./?:(H.:A#1$:'7(I-''6760J

! "#"$%"& ' "()#*&+(*,-./*$0&12$$"0"%

!"#$%&'()''*"+(,-'*".'#&"/''0'*+'1"2/""'*$33%".",&4/5'674.8,4&8(,'9$,"':;<<

16M?*XA0''=A?!1''@ABB6C6Z'HJ?B?VAB?>?!?0=D

=/4,+E'FFFG'@E".8#&/5

*606*H6!'>?**

N<O<:<QOR;T

16M?*XA0''=A?!1''@ABB6C6Z'HJ?B?VAB?>?!?0=D

>?>6!'>?**

N<O<:U'

@J':;<G

%2*:;44<
=>?@=?=@A=

+BC"
8,7.1,44)1*,-*#$06;70.;,7<

P

!"#!$#"!%" "#$%&'()*((+#,-./(+#0#$'#1((2(+,(3#41##(+%55&#0#.'617(8960:.6':-.(;%.#(<=!!

>-05:&#/(%$:.4('?#(!"#$%#&'($-*'@61#(/#A#&-5#/(B7('()*+,-./01)*2)3)4,56)7.*')06*6'(
8#'#9CD61##E$?6(F?6A6.C(26?6'06(G6./?:(H.:A#1$:'7(I-''6760J

! "#"$%"& ' "()#*&+(*,-./*$0&12$$"0"%

I'*'*''JFI1D'@ABB6C6'@J?IC?I?@J6!!V

=/4,+E'FFFG'@E".8#&/5

*6 0 6*H6!'>?**

I8%

>?>6!'>?**

I8%

>-05:&#/(%$:.4('?#(!"#$%#&'($-*'@61#(/#A#&-5#/(B7('()'+,-./01)'2)3)4,56)7.''06'6'(
8#'#9CD61##E$?6(F?6A6.C(26?6'06(G6./?:(H.:A#1$:'7(I-''6760J

! "#"$%"& ' "()#*&+(*,-./*$0&12$$"0"%

!"#$%&'()''*"+(,-'*".'#&"/''0'*+'1"2/""'*$33%".",&4/5'674.8,4&8(,'9$,"':;<<

*'='' @ABB6C6'@J?IC?I?@J6!!V

=/4,+E'FFFG'@E".8#&/5

*6 0 6*H6!'>?**

N<O<;<QR<OT N<O<;:QON<T

>?>6!'>?**

I8%

%2':;44<
=>?@=?=@A=

+B℃"
8,7.1,44)1',-'#$06;70.;,7<

!"#!$#"!%" "#$%&'()*((+#,-./(+#0#$'#1((2(+,(3#41##(+%55&#0#.'617(8960:.6':-.(;%.#(<=!!

!=

>-05:&#/(%$:.4('?#(!"#$%#&'($-*'@61#(/#A#&-5#/(B7('()'+,-./01)'2)3)4,56)7.''06'6'(
8#'#9℃D61##E$?6(F?6A6.℃(26?6'06(G6./?:(H.:A#1$:'7(I-''6760J

! "#"$%"& ' "()#*&+(*,-./*$0&12$$"0"%

!"#$%&'()''*"+(,-'*".'"#&"/''0'*+'1"2/""'*$33%".",&4/5'674.8,4&8(,'9$,"':;<<

H'0?!V'@ABB6C6'0?I?!K?1

=/4,+E'FFFG'@E".8#&/5

*6 0 6*H6!'>?**

N<O:;:QR:NT N<O:;UQOPNT N<O:;OQONOT

>?>6!'>?**

I8%

%2':;44<
=>?@=?=@A=

+B%"
8,7.1,44)1',-'#$06;70.;,7<

!"#!$#"!%" "#$%&'()*((+#,-./(+#0#$'#1((2(+,(3#41##(+%55&#0#.'617(8960:.6':-.(;%.#(<=!!

>-05:&#/(%$:.4('?#(!"#$%#&'($-*'@61#(/#A#&-5#/(B7('()*+,-./01)*2)3)4,56)7.*')06*6'(
8#'#9%D61##E$?6(F?6A6.%(26?6'06(G6./?:(H.:A#1$:'7(I-''6760J

! "#"$%"& ' "()#*&+(*,-./*$0&12$$"0"%

H'HJA0?'@ABB6C6''>?B?

=/4,+E'FFFG'@E".8#&/5

*6 0 6*H6!'>?**

N<O<O:QRU;T N<O<OUQOOPT

H'HJA0?'@ABB6C6''>?B?

>?>6!'>?**

N<O<O<'

@J':;<G @J':;:G

%2':;44<
=>?@=?=@A=

+B℃"
8,7.1,44)1',-'#$06;70.;,7<

!"#!$#"!%" "#$%&'()*((+#,-./(+#0#$'#1((2(+,(3#41##(+%55&#0#.'617(8960:.6':-.(;%.#(<=!!

!<

>-05:&#/(%$:.4('?#(!"#$%#&'($-*'@61#(/#A#&-5#/(B7('()'+,-./01)'2)3)4,56)7.''06'6'(
8#'#9℃D61##E$?6(F?6A6.℃(26?6'06(G6./?:(H.:A#1$:'7(I-''6760J

! "#"$%"& ' "()#*&+(*,-./*$0&12$$"0"%

!"#$%&'()''*"+(,-'*".'#&"/''0'*+'1"2/""'*$33%".",&4/5'674.8,4&8(,'9$,"':;<<

I6X0?I'@ABB6C6'HJA1D>DLJ?

=/4,+E'FFFG'@E".8#&/5

*6 0 6*H6!'>?**

N<OO:<QR;:T	N<OO::QOPST	N<OO:UQOYNT	N<OO:OQR<NT	N<OO:RQOYOT

>?>6!'>?**

I8%

%2*:;44<
=>?@=?=@A=

+B℃"
8,7.1,44)1*,-*#$06;70.;,7<

!"#!$#"!%" "#$%&'()*((+#,-./(+#0#$'#1((2(+,(3#41##(+%55&#0#.'617(8960:.6':-.(;%.#(<=!!

!K

>-05:&#/(%$:.4('?#(!"#$%#&'($-*'@61#(/#A#&-5#/(B7('()*+,-./01)*2)3)4,56)7.*')06*6'(
8#'#9℃D61##E$?6(F?6A6.℃(26?6'06(G6./?:(H.:A#1$:'7(I-''6760J

! "#"$%"& ' "()#*&+(*,-./*$0&12$$"0"%

!"#$%&'()''*"+(,-'*".'#&"/''0'*+'1"2/""'*$33%".",&4/5'674.8,4&8(,'9$,"':;<<

>?M?I?H0?'@ABB6C6''0D!F@K?**6!!V

=/4,+E'FFFG'@E".8#&/5

*6 0 6*H6!'>?**

N<OOY<QR;NT N<OOY:QRUPT N<OOYUQONST N<OOYRQONPT N<OOYYQONNT

N<OOS<QR<RT

>?M?I?H0?'@ABB6C6''0D!F@K?**6!!V

>?>6!'>?**

N<OOYO'

@J':;UG @J':;OG

%2*:;44<

=>?@=?=@A=

+BC"

8,7.1,44)1*,-*#$06;70.;,7<

!L

!"#!$#"!%" "#$%&'()*((+#,-./(+#0#$'#1((2(+,(3#41##(+%55&#0#.'617(8960:.6':-.(;%.#(<=!!

>-05:&#/(%$:.4('?#(!"#$%#&'($-*'@61#(/#A#&-5#/(B7('()*+,-./01)*2)3)4,56)7.*')06*6'(

8#'#9CD61##E$?6(F?6A6.C(26?6'06(G6./?:(H.:A#1$:'7(I-''6760J

! "#"$%"& ' "()#*&+(*,-./*$0&12$$"0"%

!"#$%&'()''*"+(,-'*".'#&"/''0'*+'1"2/""'*$33%".",&4/5'674.8,4&8(,'9$,"':;<<

*H'9A*6>J*'@ABB6C6'0AAB?0?HHA0

=/4,+E'FFFG'@E".8#&/5

*6 0 6*H6!'>?**

N<OOO:QOP:T

>?>6!'>?**

I8%

%2*:;44<
=>?@=?=@A=

+B℃"
8,7.1,44)1*,-*#$06;70.;,7<

!M

!"#!$#"!%" "#$%&'()*((+#,-./(+#0#$'#1((2(+,(3#41##(+%55&#0#.'617(8960:.6':-.(;%.#(<=!!

>-05:&#/(%$:.4('?#(!"#$%#&'($-*'@61#(/#A#&-5#/(B7('()*+,-./01)*2)3)4,56)7.*')06*6'(
8#'#9℃D61##E$?6(F?6A6.℃(26?6'06(G6./?:(H.:A#1$:'7(I-''6760J

@A@JFI'@ABB6C6'KA@JF

=/4, +E'FFFG'@E" . 8#&/5

*6 0 6*H6!'>?**

N<OO;UQR;NT N<OO;RQOS<T N<OO;PQON:T N<OO<;QOSST N<OO<:QOSPT

N<OO<UQOSRT

@A@JFI'@ABB6C6'KA@JF

>?>6!'>?**

N<OO;<'

@J':;:G

N<OO;Y'

@J':;:G @J':;OG

N<OO;S'

@J':;OG

%2*:;44<

=>?@=?=@A=

+BC"

8,7.1,44)1*,-*#$06;70.;,7<

!N

!"#!$#"!%" "#$%&'()*((+#,-./(+#0#$'#1((2(+,(3#41##(+%55&#0#.'617(8960:.6':-.(;%.#(<=!!

>-05:&#/(%$:.4('?#(!"#$%#&'($-*'@61#(/#A#&-5#/(B7('()*+,-./01)*2)3)4,56)7.*')06*6'(

8#'#9CD61##E$?6(F?6A6.C(26?6'06(G6./?:(H.:A#1$:'7(I-''6760J

! "#"$%"& ' "()#*&+(*,-./*$0&12$$"0"%

!"#$%&'()''*"+(,-'*".'#&"/''0'*+'1"2/""'*$33%".",&4/5'674.8,4&8(,'9$,"':;<<

0?J?!?9?*'@ABB6C6'6!I?KDB?0

=/4,+E'FFFG'@E".8#&/5

*606*H6!'>?**

N<O:::QOPNT

0?J?!?9?*'@ABB6C6'6!I?KDB?0

>?>6!'>?**

N<O::O'

@J':;<G

N<O::R'

@J':;:G

%2*:;44<
=>?@=?=@A=

+B%"
8,7.1,44)1*,-*#$06;70.;,7<

!"#!$#"!%" "#$%&'()*((+#,-./(+#0#$'#1((2(+,(3#41##(+%55&#0#.'617(8960:.6':-.(;%.#(<=!!

!0

>-05:&#/(%$:.4('?#(!"#$%#&'($-*'@61#(/#A#&-5#/(B7('()*+,-./01)*2)3)4,56)7.*')06*6'(
8#'#9%D61##E$?6(F?6A6.%(26?6'06(G6./?:(H.:A#1$:'7(I-''6760J

! "#"$%"& ' "()#*&+(*,-./*$0&12$$"0"%

!"#$%&'()''*"+(,-'*".'#&"/''0'*+'1"2/""'*$33%".",&4/5'674.8,4&8(,'9$,"':;<<

0?!'?HJ?I?*FD*'@ABB6C6'KAHJ?0?IC?B?0

=/4,+E'FFFG'@E".8#&/5

*6 0 6*H6!'>?**

N<O:Y<QOOOT

>?>6!'>?**

I 8%

%2*:;44<
=>?@=?=@A=

+B℃"
8,7.1,44)1*,-*#$06;70.;,7<

!"#!$#"!%" "#$%&'()*((+#,-./(+#0#$'#1((2(+,(3#41##(+%55&#0#.'617(8960:.6':-.(;%.#(<=!!

!P

>-05:&#/(%$:.4('?#(!"#$%#&'($-*'@61#(/#A#&-5#/(B7('()*+,-./01)*2)3)4,56)7.*')06*6'(
8#'#9℃D61##E$?6(F?6A6.℃(26?6'06(G6./?:(H.:A#1$:'7(I-''6760J

IF!0?B?'@ABB6C6''0DM?HHD>DLJ?

=/4,+E'FFFG'@E".8#&/5

*6 0 6*H6!'>?**

N<O:OUQONRT N<O:ORQR;PT N<O:OYQR;YT N<O:OPQR;RT

IF!0?B?'@ABB6C6''0DM?HHD>DLJ?

>?>6!'>?**

N<O:O:'

@J':;:G @J':;UG

N<O:OO'

@J':;UG

%2*:;44<

=>?@=?=@A=

+BC"

8,7.1,44)1*,-*#$06;70.;,7<

!Q

!"#!$#"!%" "#$%&'()*((+#,-./(+#0#$'#1((2(+,(3#41##(+%55&#0#.'617(8960:.6':-.(;%.#(<=!!

>-05:&#/(%$:.4('?#(!"#$%#&'($-*'@61#(/#A#&-5#/(B7('()*+,-./01)*2)3)4,56)7.*')06*6'(

8#'#9CD61##E$?6(F?6A6.C(26?6'06(G6./?:(H.:A#1$:'7(I-''6760J

! "#"$%"& ' "()#*&+(*,-./*$0&12$$"0"%

!"#$%&'()''*"+(,-'*".'#&"/''0'*+'1"2/""'*$33%".",&4/5'674.8,4&8(,'9$,"':;<<

*'J''@ABB6C6'HJ6M?!?

=/4,+E'FFFG'@E".8#&/5

*6 0 6*H6!'>?**

N<O:P:QR;;T

>?>6!'>?**

I 8%

%2*:;44<
=>?@=?=@A=

+B℃"
8,7.1,44)1*,-*#$06;70.;,7<

<=

!"#!$#"!%" "#$%&'()*((+#,-./(+#0#$'#1((2(+,(3#41##(+%55&#0#.'617(8960:.6':-.(;%.#(<=!!

>-05:&#/(%$:.4('?#(!"#$%#&'($-*'@61#(/#A#&-5#/(B7('()*+,-./01)*2)3)4,56)7.*')06*6'(
8#'#9℃D61##E$?6(F?6A6.℃(26?6'06(G6./?:(H.:A#1$:'7(I-''6760J

! "#"$%"& ' "()#*&+(*,-./*$0&12$$"0"%

!"#$%&'()''*"+(,-'*".'#&"/''0'*+'1"2/""'*$33%".",&4/5'674.8,4&8(,'9$,"':;<<

*'I'0'@ABB6C6'0?BF?IK?!?'0AAHJ?KDII?0

=/4,+E'FFFG'@E".8#&/5

*6 0 6*H6!'>?**

N<OUY:QOOST N<OUYUQRUUT N<OUYOQON<T N<OUYRQRURT

*'I'0'@ABB6C6'0?BF?IK?!?'0AAHJ?KDII?0

>?>6!'>?**

N<OUYP'

@J':;:G

%2':;44<
=>?@=?=@A=

+B%"
8,7.1,44)1',-'#$06;70.;,7<

<!

!"#!$#"!%" "#$%&'()*((+#,-./(+#0#$'#1((2(+,(3#41##(+%55&#0#.'617(8960:.6':-.(;%.#(<=!!

>-05:&#/(%$:.4('?#(!"#$%#&'($-*'@61#(/#A#&-5#/(B7('()*+,-./01)*2)3)4,56)7.*')06*6'(
8#'#9%D61##E$?6(F?6A6.%(26?6'06(G6./?:(H.:A#1$:'7(I-''6760J

! "#"$%"& ' "()#*&+(*,-./*$0&12$$"0"%

H'?B=6!H'@ABB6C6'6!I?KDB?0

=/4,+E'FFFG'@E".8#&/5

*6 0 6*H6!'>?**

N<OU;UQOPUT

H'?B=6!H'@ABB6C6'6!I?KDB?0

>?>6!'>?**

N<OU;R'

@J':;OG

%2*:;44<
=>?@=?=@A=

+BC"
8,7.1,44)1*,-*#$06;70.;,7<

>-05:&#/(%$:.4('?#(!"#$%#&'($-*'@61#(/#A#&-5#/(B7('()*+,-./01)*2)3)4,56)7.*')06*6'(
8#'#9CD61##E$?6(F?6A6.C(26?6'06(G6./?:(H.:A#1$:'7(I-''6760J

! "#"$%"& ' "()#*&+(*,-./*$0&12$$"0"%

!"#$%&'()''*"+(,-'*".'#&"/''0'*+'1"2/""'*$33%".",&4/5'674.8,4&8(,'9$,"':;<<

H'>?DB'@ABB6C6'K?B?0?**6!!V

=/4,+E'FFFG'@E".8#&/5

*6 0 6*H6!'>?**

N<OU:<QR:OT N<OU::QOSOT N<OU:UQOYOT N<OU:OQR<RT N<OUUUQORST

H'>?DB'@ABB6C6'K?B?0?**6!!V

>?>6!'>?**

N<OUU<'

@J':;OG

N<OUUR'

@J':;<G @J':;OG

%2*:;44<

=>?@=?=@A=

+BC"

8,7.1,44)1*,-*#$06;70.;,7<

<K

!"#!$#"!%" "#$%&'()*((+#,-./(+#0#$'#1((2(+,(3#41##(+%55&#0#.'617(8960:.6':-.(;%.#(<=!!

>-05:&#/(%$:.4('?#(!"#$%#&'($-*'@61#(/#A#&-5#/(B7('()*+,-./01)*2)3)4,56)7.*')06*6'(

8#'#9CD61##E$?6(F?6A6.C(26?6'06(G6./?:(H.:A#1$:'7(I-''6760J

! "#"$%"& ' "()#*&+(*,-./*$0&12$$"0"%

!"#$%&'()''*"+(,-'*".'#&"/''0'*+'1"2/""'*$33%".",&4/5'674.8,4&8(,'9$,"':;<<

D'@'@ABB6C6'?BDM?

=/4,+E'FFFG'@E".8#&/5

*6 0 6*H6!'>?**

I8%

>?>6!'>?**

I8%

%2*:;44<
=>?@=?=@A=

+B%"
8,7.1,44)1*,-*#$06;70.;,7<

<L

!"#!$#"!%" "#$%&'()*((+#,-./(+#0#$'#1((2(+,(3#41##(+%55&#0#.'617(8960:.6':-.(;%.#(<=!!

>-05:&#/(%$:.4('?#(!"#$%#&'($-*'@61#(/#A#&-5#/(B7('()*+,-./01)*2)3)4,56)7.*')06*6'(
8#'#9%D61##E$?6(F?6A6.%(26?6'06(G6./?:(H.:A#1$:'7(I-''6760J

! "#"$%"& ' "( )#*&+ (*, -. /*$0&1 2$$"0"%

!"#$%&'()''*"+(,-'*". "#&"/'' 0'*+'1"2/""'*$33%". ",&4/5'674 . 8,4&8(,'9$,"':;<<

FI1F!?'C?I1JF'@ABB6C6'AW'?!H*'?I1'*@F6I@6''KAHJ?0?IC?B?0

=/4,+E'FFFG'@E". 8#&/5

*606*H6!'>?**

N<ORO<QOP;T N<OROUQR;YT N<OROOQOPRT N<ORORQRO<T N<OROPQOYOT

FI1F!?'C?I1JF'@ABB6C6'AW'?!H*'?I1'*@F6I@6''KAHJ?0?IC?B?0

>?>6!'>?**

N<ORO:'

@J':;:G

N<OROY'

@J':;:G @J':;UG

N<OROS'

@J':;:G

N<ORON'

@J':;:G

N<ORR<'

@J':;:G @J':;UG

%2*:;44<

=>?@=?=@A=

+BC"

8,7.1,44)1*,-*#$06;70.;,7<

<M

!"#!$#"!%" "#$%&'()*((+#,-./(+#0#$'#1((2(+,(3#41##(+%55&#0#.'617(8960:.6':-.(;%.#(<=!!

>-05:&#/(%$:.4('?#(!"#$%#&'($-*'@61#(/#A#&-5#/(B7('()*+,-./01)*2)3)4,56)7.*')06*6'(

8#'#9CD61##E$?6(F?6A6.C(26?6'06(G6./?:(H.:A#1$:'7(I-''6760J

! "#"$%"&' "()#*&+(*,-./*$0&12$$"0"%

!"#$%&'()''*"+(,-'*"."#&"/''0'*+'1"2/""'*$33%".",&4/5'674.8,4&8(,'9$,"':;<<

%2*:;44<
=>?@=?=@A=

+BC"
8,7.1,44)1*,-*#$06;70.;,7<

<N

!"#!$#"!%" "#$%&'()*((+#,-./(+#0#$'#1((2(+,(3#41##(+%55&#0#.'617(8960:.6':-.(;%.#(<=!!

>-05:&#/(%$:.4('?#(!"#$%#&'($-*'@61#(/#A#&-5#/(B7('()*+,-./01)*2)3)4,56)7.*')06*6'(
8#'#9CD61##E$?6(F?6A6.C(26?6'06(G6./?:(H.:A#1$:'7(I-''6760J

Date of Publication: 27.02.2012

MAHATMA GANDHI UNIVERSITY

N O T I F I C A T I O N

No: EH II/371/2012

P.D.Hills,
Dated: 27.02.2012

It is hereby notified that the result of M.Sc Branch III, IV(A), IV(B), V(A) & (B) Chemistry Degree examination Second Semester held in June 2011 is published on 27.02.2012.

RESULT AT A GLANCE

Number of Candidates		
Registered	Appeared	Passed
803	783	476 (60.79%)

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MAHATMA GANDHI UNIVERSITY KOTTAYAM

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!"#$%&"'()

*+(,)(#-%.#,/-0%"#+(1,23,4(0,&)(,52),"''(1"&.(,"352)'&."23,
25,.+(,(6&'"3((#7,*+(#(,$&332.,0(,.)(&.(1,&#,2)"8"3&%,'&)9,
#+((.#7,:)"8"3&%,'&)9,#+((.#,+&;(,0((3,"##-(1,0<,.+(,
=3";()#".<,#(/&)&.(%<7,

%109:33;

0000000000000000000000000000(<="
7)6+.)33/.0)*0#$-5:6-+:)6;

!"#$%&'()*+%,-).//')!"#$%#&')+"0.123')('4'&"$'()56))()*+,-./01/2/3)45/6+0'/-502.)
7#'#87823''9+/2):/242,7);2/2.#2)<2,(/%)=,%4'3+%.6)>"..262#?

! "#"$%"& ' "()#*&+(*,-./*$0&12$$"0"%

!"#$%&'()''*"+(,-'*".'"#&"/''0'*+'1"2/""'345.6,5&6(,'7$,"'89::

;<=>?@A;<=3';?@@3B3'C<=><D<0=>A==<

E/5,+F'AGH'I<J'<,5%K&6+5%';F".6#&/K

303=3!'C<**

!!"#$%&#$'(!!"#$)&#$"(!!"#$*&)+,(

;<=>?@A;<=3';?@@3B3'C<=><D<0=>A==<

E/5,+F'AGH'I<J'<,5%K&6+5%';F".6#&/K

C<C3!'C<**

88:LM:

;>'<D'89NH ;>'<D'89OH ;>'<D'89MH

88:LM8

;>'<D'89NH ;>'<D'89OH ;>'<D'89MH

88:LML

;>'<D'89:H ;>'<D'89PH ;>'<D'89NH ;>'<D'89OH ;>'<D'89MH

88:LMO

;>'<D'89PH ;>'<D'89NH ;>'<D'89OH ;>'<D'89MH

88:LMM

;>'<D'89:H ;>'<D'898H ;>'<D'89PH ;>'<D'89NH ;>'<D'89OH ;>'<D'89MH

88:LMQ

;>'<D'89:H ;>'<D'89PH ;>'<D'89NH ;>'<D'89OH ;>'<D'89MH

88:LQ9

;>'<D'89NH ;>'<D'89OH ;>'<D'89MH

%109:33;

<=>?<><?@<

0000000000000000000000000000(AB"

7)6+.)33/.0)*0#$-5:6-+:)6;

!"#!$#"!%" &'()*+,-.,,/'0123,/'4'(+'5,,6,/0,7'85'',9:;4<2;+<12,=)2',"!%% %

>14?<*'3,)(<28,+@',!"#$%#&',(1.+A;5',3'B'*1?'3,CD,,()*+,-./01/2/3)45/6+0'/-50;+,

7#'#8EF;5''G(@;,H@;B;2E,6;@;+4;,I;23@<,J2<B'5(<+D,K1++;D;4L

! "#"$%"& ' "( )#*&+ (*, -. /*$0&1 2$$"0"%

!"#$%&'()''*"+(,-'*". "#&"/'' 0 '*+'1"2/""'345 . 6,5&6(,'7$,"'89::

0 < ! = > ? 0 <'; ?@@3B3'RS==<CST><''=>A! SG<@@<

E/5,+F'AGH'I<J'<,5%K&6+5%'; F" . 6#&/K

3 0 3=3!'C<**

!!"+'!&)),(!!"+'%&),$(!!"+')&)"%(!!"+'$&)%+(

!!"+''&)%+(!!"+'*&)%,(!!"+*"&)%%(!!"+*!&)%'(

!!"+*#&)"#(!!"+*)&)%#(

0 < ! = > ? 0 <'; ?@@3B3'RS==<CST><''=>A! SG<@@<

E/5,+F'AGH'I<J'<,5%K&6+5%'; F" . 6#&/K

C<C3!'C<**

88:0Q:

; >'< D'898H ; >'< D'89PH ; >'< D'89NH ; >'< D'89OH ; >'< D'89MH

88:0QL

; >'< D'898H ; >'< D'89NH ; >'< D'89OH ; >'< D'89MH

88:0Q0

; >'< D'89PH ; >'< D'89NH ; >'< D'89OH ; >'< D'89MH

88:0U9

; >'< D'89:H ; >'< D'898H ; >'< D'89PH ; >'< D'89NH ; >'< D'89OH ; >'< D'89MH

88:0UP

; >'< D'898H ; >'< D'89PH ; >'< D'89NH ; >'< D'89OH ; >'< D'89MH

%1 0 9:33;

<=>?<><?@<

0000000000000000000000000000(AB"

7)6+.)33/.0)*0#$-5:6-+:)6;

!"#!$#"!%" &'()*+,-.,,/'0123,/'4'(+'5,,6,/0,7'85'',9:;4<2;+<12,=)2',"!%%

>14?<*'3,)(<28,+@',!"#$%#&',(1.+A;5',3'B'*1?'3,CD,,()*+,-./01/2/3)45/6+0'/-50;+,

7#'#8EF;5''G(@;,H@;B;2E,6;@;+4;,I;23@<,J2<B'5(<+D,K1++;D;4L

! "#"$%"& ' "( )#*&+ (*, -. /*$0&1 2$$"0"%

!"#$%&'()''*"+(,-'*". "#&"/'' 0 '*+'1"2/""'345 . 6,5&6(,'7$,"'89::

='=>? 0 <'; ?@@3B3'R?T>3D; >3! !V

E/5,+F'AGH'I<J'<, 5%K&6+5%'; F" . 6#&/K

3 0 3=3!'C<**

!!"'!+&)!*(!!"'!$&#**(!!"'!'&#+%(

='=>? 0 <'; ?@@3B3'R?T>3D; >3! !V

E/5,+F'AGH'I<J'<, 5%K&6+5%'; F" . 6#&/K

C<C3!'C<**

88:Q8:

; >'< D'89:H ; >'< D'89NH ; >'< D'89OH ; >'< D'89MH

88:Q88

; >'< D'89NH ; >'< D'89OH ; >'< D'89MH

88:Q8P

; >'< D'89PH ; >'< D'89NH ; >'< D'89OH ; >'< D'89MH

88:Q8N

; >'< D'89NH ; >'< D'89OH ; >'< D'89MH

%1 0 9:33;

<=>?<><?@<

0000000000000000000000000000(AB"

7)6+.)33/.0)*0#$-5:6-+:)6;

!"#!$#"!%" &'()*+, -.,,/'0123,/'4'(+'5,, 6,/0,7'85'',9:;4<2;+<12,=)2',"!%% $

>14?<*'3,)(<28,+@',!"#$%#&',(1.+A;5',3'B'*1?'3,CD,,()*+, -./0 1/2/3)45/6+0'/-5 0;+,

7#'#8EF;5''G(@;,H@;B;2E, 6;@;+4;,I;23@<,J2<B'5(<+D,K1++;D;4L

! "#"$%"& ' "()#*&+(*,-./*$0&12$$"0"%

!"#$%&'()''*"+(,-'*".'"#&"/''0'*+'1"2/""'345.6,5&6(,'7$,"'89::

;'0'*';?@@3B3'R?==<V<0

E/5,+F'AGH'I<J'<,5%K&6+5%';F".6#&/K

303=3!'C<**

!!"#,!&#$*(!!"#,#&#*#(!!"#,)&),,(!!"#,*&))'(

!!"#",&#*+(

;'0'*';?@@3B3'R?==<V<0

E/5,+F'AGH'I<J'<,5%K&6+5%';F".6#&/K

C<C3!'C<**

88:L9:

;>'<D'89PH ;>'<D'89NH ;>'<D'89OH ;>'<D'89MH

88:L9P

;>'<D'898H ;>'<D'89PH ;>'<D'89NH ;>'<D'89OH ;>'<D'89MH

88:L9O

;>'<D'89NH ;>'<D'89OH ;>'<D'89MH

88:L9M

;>'<D'89PH ;>'<D'89NH ;>'<D'89OH ;>'<D'89MH

88:L9Q

;>'<D'89PH ;>'<D'89NH ;>'<D'89OH ;>'<D'89MH

88:L::

;>'<D'89NH ;>'<D'89OH ;>'<D'89MH

%109:33;

<=>?<><?@<

0000000000000000000000000000(AB"

7)6+.)33/.0)*0#$-5:6-+:)6;

!"#!$#"!%" &'()*+,-.,,/'0123,/'4'(+'5,,6,/0,7'85'',9:;4<2;+<12,=)2',"!%% M

>14?<*'3,)(<28,+@',!"#$%#&',(1.+A;5',3'B'*1?'3,CD,,()*+,-./01/2/3)45/6+0'/-50;+,

7#'#8EF;5''G(@;,H@;B;2E,6;@;+4;,I;23@<,J2<B'5(<+D,K1++;D;4L

! "#"$%"& ' "()#*&+(*,-./*$0&12$$"0"%

!"#$%&'()''*"+(,-'*".'#&"/''0'*+'1"2/""'345.6,5&6(,'7$,"'89::

RS!A<R?*3'3@A<*';?@@3B3'0<DD<D<0

E/5,+F'AGH'I<J'<,5%K&6+5%';F".6#&/K

303=3!'C<**

!!")#"&))#(	!!")#!&+"!(	!!")#%&)%)(	!!")##&)*$(
!!")#)&),*(	!!")#+&),)(	!!")#$&)$"(	!!")#'&),'(
!!")#*&))#(	!!")),&)++(	!!"))"&))"(	

%1090:33;
<=>?<><?@<

0000000000000000000000000000(AB"
7)6+.)33/.0)*0#$-5:6-+:)6;

!"#!$#"!%" &'()*+,-.,,/'0123,/'4'(+'5,,6,/0,7'85'',9:;4<2;+<12,=)2',"!%% N

>14?<*'3,)(<28,+@',!"#$%#&',(1.+A;5',3'B'*1?'3,CD,,()*+,-./01/2/3)45/6+0'/-50;+,
7#'#8EF;5''G(@;,H@;B;2E,6;@;+4;,I;23@<,J2<B'5(<+D,K1++;D;4L

! "#"$%"& ' "( )#*&+ (*, -. /*$0&1 2$$"0"%

!"#$%&'()''*"+(,-'*". "#&"/'' 0 '*+'1"2/""'345 . 6,5&6(,'7$,"'89::

*'E''; ?@@3B3'; > < D B < D < ; >3 ! ! V

E/5,+F'AGH'I<J'<,5%K&6+5%'; F" . 6#&/K

3 0 3=3 !'C< * *

!!"$)!&#*'(!!"$)%&),#(!!"$)#&#*$(!!"$))&#*)(

!!"$)$&)#,(!!"$)'&#'$(!!"$)*&)!,(!!"$+,&#$!(

*'E''; ?@@3B3'; > < D B < D < ; >3 ! ! V

E/5,+F'AGH'I<J'<,5%K&6+5%'; F" . 6#&/K

C<C3 !'C< * *

88:MN:

; >'< D'89:H ; >'< D'89NH ; >'< D'89OH ; >'< D'89MH

88:MO:

; >'< D'89NH ; >'< D'89OH ; >'< D'89MH

88:MO8

; >'< D'89NH ; >'< D'89OH ; >'< D'89MH

%1 0 9 :33;

<=>?<><?@<

0000000000000000000000000000(AB"

7)6+.)33/.0)*0#$-5:6-+:)6;

!"#!$#"!%" &'()*+, -.,,/'0123,/'4'(+'5,, 6,/0,7'85'',9:;4<2;+<12,=)2',"!%% 0

>14?<*'3,)(<28,+@',!"#$%#&',(1.+A;5',3'B'*1?'3,CD,,()*+, -./0 1/2/3)45/6+0'/-5 0;+,

7#'#8EF;5''G(@;,H@;B;2E, 6;@;+4;,I;23@<,J2<B'5(<+D,K1++;D;4L

0<><!<7<*';?@@3B3'3!D<RS@<0

E/5,+F'AGH'I<J'<,5%K&6+5%';F".6#&/K

303=3!'C<**

!!"+"%&)#+(!!"+"#&)%)(!!"+")&#'%(!!"+"+&)"'(

!!"+"$&)",(!!"+!,&)#$(!!"+!"&)#$(

0<><!<7<*';?@@3B3'3!D<RS@<0

E/5,+F'AGH'I<J'<,5%K&6+5%';F".6#&/K

C<C3!'C<**

88:0:8

;>'<D'89LH ;>'<D'89NH ;>'<D'89OH ;>'<D'89MH

88:0:Q

;>'<D'89NH ;>'<D'89OH ;>'<D'89MH

88:0:U

;>'<D'89:H ;>'<D'898H ;>'<D'89PH ;>'<D'89LH

%109:33;

<=>?<><?@<

000000000000000000000000000(AB"

7)6+.)33/.0)*0#$-5:6-+:)6;

>14?<*'3,)(<28,+@',!"#$%#&',(1.+A;5',3'B'*1?'3,CD,,()*+,-./01/2/3)45/6+0'/-50;+,

7#'#8EF;5''G(@;,H@;B;2E,6;@;+4;,I;23@<,J2<B'5(<+D,K1++;D;4L

! "#"$%"& ' "( )#*&+ (*, - . /*$0&1 2$$"0"%

!"#$%&'()''*"+(,-'*" . "#&"/'' 0 '*+'1"2/""'345 . 6,5&6(,'7$,"'89::

%1090:33;
<=>?<><?@<

000000000000000000000000000000(AB"
7)6+.)33/.0)*0#$-5:6-+:)6;

!"#!$#"!%" &'()*+, - .,,/'0123,/'4'(+'5,, 6,/0,7'85'',9:;4<2;+<12,=)2',"!%% Q

>14?<*'3,)(<28,+@',!"#$%#&',(1.+A;5',3'B'*1?'3,CD,,()*+, -./01/2/3)45/6+0'/-50;+,
7#'#8EF;5''G(@;,H@;B;2E,6;@;+4;,I;23@<,J2<B'5(<+D,K1++;D;4L

=>?@ABC=>?6'=ABB6D6'E>?@>F>0?@C??>

G/4,+H'CIJ'K>L'>,4%5&8+4%'=H". 8#&/5

606?6!'E>**

M<NO:NKNPPL

E>E6!'E>**

F8%

%2*:;44<
=>?@=?=@A=

+BC"
8,7.1,44)1*,-*#$06;70.;,7<

!"#!$#"!%" "#$%&'()*((+#,-./(+#0#$'#1((2(+,(3#41##(+%55&#0#.'617(8960:.6':-.(;%.#(<=!!

>-05:&#/(%$:.4('?#(!"#$%#&'($-*'@61#(/#A#&-5#/(B7('()*+,-./01)*2)3)4,56)7.*')06*6'(
8#'#9CD61##E$?6(F?6A6.C(26?6'06(G6./?:(H.:A#1$:'7(I-''6760J

! "#"$%"& ' "( )#*&+ (*, -. /*$0&1 2$$"0"%

!"#$%&'()''*"+(,-'*". "#&"/'' 0 '*+'1"2/""'*$33%". ",&4/5'674 . 8,4&8(,'9$,"':;<<

0 > ! ? @ A 0 >'= ABB6 D 6'Q R ?? >ERS@ >''? @C! R I >BB>

G/4,+H'CIJ'K>L'>,4%5&8+4%'=H". 8#&/5

6 0 6?6!'E>**

M<NPOTKU<NL M<NPOVKNMTL

0 > ! ? @ A 0 >'= ABB6 D 6'Q R ?? >ERS@ >''? @C! R I >BB>

E>E6!'E>**

M<NPOM'

=@'> F':;:J =@'> F':;TJ

%2*:;44<
=>?@=?=@A=

+BC"
8,7.1,44)1*,-*#$0 6;70.;,7<

!"#!$#"!%" "#$%&'( )*((+#,-./(+#0#$'#1((2(+,(3#41##(+%55&#0#.'617(8960:.6':-.(;%.#(<=!!

>-05:&#/(%$:.4('?#(!"#$%#&'($-*'@61#(/#A#&-5#/(B7('()*+,-./01)*2)3)4,56)7.*')06*6'(
8#'#9CD61##E$?6(F?6A6.C(26?6'06(G6./?:(H.:A#1$:'7(I-''6760J

! "#"$%"& ' "()#*&+(*,-./*$0&12$$"0"%

!"#$%&'()''*"+(,-'*".'#&"/''0'*+'1"2/""'*$33%".",&4/5'674.8,4&8(,'9$,"':;<<

?'?@A0>'=ABB6D6'QAS@6F=@6!!W

G/4,+H'CIJ'K>L'>,4%5&8+4%'=H".8#&/5

6 0 6?6!'E>**

M<NO;TKNP:L M<NO;UKNVNL M<NO;VKU<VL M<NO;PKU;TL M<NO<NKNO<L

?'?@A0>'=ABB6D6'QAS@6F=@6!!W

E>E6!'E>**

M<NO;<'

=@'>F':;TJ

M<NO;:'

=@'>F':;<J =@'>F':;:J =@'>F':;TJ

M<NO;O'

=@'>F':;<J

M<NO<U'

=@'>F':;<J

%2*:;44<
=>?@=?=@A=

+BC"
8,7.1,44)1*,-*#$06;70.;,7<

K

!"#!$#"!%" "#$%&'()*((+#,-./(+#0#$'#1((2(+,(3#41##(+%55&#0#.'617(8960:.6':-.(;%.#(<=!!

>-05:&#/(%$:.4('?#(!"#$%#&'($-*'@61#(/#A#&-5#/(B7('()*+,-./01)*2)3)4,56)7.*')06*6'(
8#'#9CD61##E$?6(F?6A6.C(26?6'06(G6./?:(H.:A#1$:'7(I-''6760J

! "#"$%"& ' "( )#*&+ (*, -. /*$0&1 2$$"0"%

!"#$%&'()''*"+(, -'*" . "#&"/'' 0 '*+'1"2/""'*$33%" . ",&4/5'674 . 8, 4&8(, '9$, "':;<<

='0'*'=ABB6D6'QA??>W>0

G/4, +H'CIJ'K>L'>, 4%5&8+4%'=H" . 8#&/5

606?6!'E>**

F8%

='0'*'=ABB6D6'QA??>W>0

E>E6!'E>**

M<NP;<'

=@'>F':;TJ

%2*:;44<
=>?@=?=@A=

+BC"
8,7.1,44)1*,-*#$06;70.;,7<

!"#!$#"!%" "#$%&'()*((+#,-./(+#0#$'#1((2(+,(3#41##(+%55&#0#.'617(8960:.6':-.(;%.#(<=!!

>-05:&#/(%$:.4('?#(!"#$%#&'($-*'@61#(/#A#&-5#/(B7('()*+,-./01)*2)3)4,56)7.*')06*6'(
8#'#9CD61##E$?6(F?6A6.C(26?6'06(G6./?:(H.:A#1$:'7(I-''6760J

! "#"$%"& ' "( )#*&+ (*, -. /*$0&1 2$$"0"%

!"#$%&'()''*"+(,-'*". "#&"/'' 0 '*+'1"2/""'*$33%". ",&4/5'674 . 8,4&8(,'9$,"':;<<

QR!C>QA*6'6BC>*'=ABB6D6' 0 >F F>F>0

G/4,+H'CIJ'K>L'>,4%5&8+4%'=H". 8#&/5

6 0 6?6!'E>**

M<NP:<KNMVL M<NP::KNOML M<NP:NKNV<L M<NP:UKU<ML M<NP:VKNM<L

E>E6!'E>**

F8%

%2*:;44<
=>?@=?=@A=

+BC"
8,7.1,44)1*,-*#$0 6;70.;,7<

!"#!$#"!%" "#$%&'( )*((+#,-./(+#0#$'#1((2(+,(3#41##(+%55&#0#.'617(8960:.6':-.(;%.#(<=!!

M

>-05:&#/(%$:.4('?#(!"#$%#&'($-*'@61#(/#A#&-5#/(B7('()*+,-./01)*2)3)4,56)7.*')06*6'(
8#'#9CD61##E$?6(F?6A6.C(26?6'06(G6./?:(H.:A#1$:'7(I-''6760J

! "#"$%"& ' "()#*&+(*,-./*$0&12$$"0"%

!"#$%&'()''*"+(,-'*".'#&"/''0'*+'1"2/""'*$33%".",&4/5'674.8,4&8(,'9$,"':;<<

*'G''=ABB6D6'=@>FD>F>=@6!!W

G/4,+H'CIJ'K>L'>,4%5&8+4%'=H".8#&/5

6 0 6?6!'E>**

M<NPN<KUUOL

E>E6!'E>**

F8%

%2*:;44<
=>?@=?=@A=

+BC"
8,7.1,44)1*,-*#$06;70.;,7<

N

!"#!$#"!%" "#$%&'()*((+#,-./(+#0#$'#1((2(+,(3#41##(+%55&#0#.'617(8960:.6':-.(;%.#(<=!!

>-05:&#/(%$:.4('?#(!"#$%#&'($-*'@61#(/#A#&-5#/(B7('()*+,-./01)*2)3)4,56)7.*')06*6'(
8#'#9CD61##E$?6(F?6A6.C(26?6'06(G6./?:(H.:A#1$:'7(I-''6760J

! "#"$%"& ' "( )#*&+ (*, -. /*$0&1 2$$"0"%

!"#$%&'()''*"+(,-'*". "#&"/'' 0'*+'1"2/""'*$33%". ",&4/5'674 . 8,4&8(,'9$,"':;<<

0 > @ > ! >9> *'= ABB6D6'6 ! F > Q RB> 0

G/4,+H'CIJ'K>L'>,4%5&8+4%'=H". 8#&/5

6 0 6?6!'E>**

M<NPV:KNMOL

0 > @ > ! >9> *'= ABB6D6'6 ! F > Q RB> 0

E>E6!'E>**

M<NPVN'

=@'> F':;NJ

M<NPVU'

=@'> F':;TJ

%2*:;44<
=>?@=?=@A=

+BC"
8,7.1,44)1*,-*#$0 6;70.;,7<

0

!"#!$#"!%" "#$%&'()*((+#,-./(+#0#$'#1((2(+,(3#41##(+%55&#0#.'617(8960:.6':-.(;%.#(<=!!

>-05:&#/(%$:.4('?#(!"#$%#&'($-*'@61#(/#A#&-5#/(B7('()*+,-./01)*2)3)4,56)7.*')06*6'(
8#'#9CD61##E$?6(F?6A6.C(26?6'06(G6./?:(H.:A#1$:'7(I-''6760J

! "#"$%"& ' "( )#*&+ (*, -. /*$0&1 2$$"0"%

!"#$%&'()''*"+(, -'*" . "#&"/'' 0 '*+'1"2/""'*$33%" . ",&4/5'674 . 8, 4&8(, '9$, "':;<<

%2*: ;44<
=>?@=?=@A=

+B%"
8, 7.1, 44)1*, -*#$06;70.;, 7<

!"#!$#"!%" "#$%&'( )*((+#, -./(+#0#$'#1((2(+, (3#41##(+%55&#0#.'617(8960:.6':-.(;%.#(<=!!

P

>-05:&#/(%$:.4('?#(!"#$%#&'($-*'@61#(/#A#&-5#/(B7('()*+, -./01)*2)3)4, 56)7.*')06*6'(
8#'#9%D61##E$?6(F?6A6.%(26?6'06(G6./?:(H.:A#1$:'7(I-''6760J

Date of Publication: 27.02.2012

MAHATMA GANDHI UNIVERSITY

N O T I F I C A T I O N

No: EH II/371/2012

P.D.Hills,
Dated: 27.02.2012

It is hereby notified that the result of M.Sc Branch III, IV(A), IV(B), V(A) & (B) Chemistry Degree examination Second Semester held in June 2011 is published on 27.02.2012.

RESULT AT A GLANCE

Number of Candidates		
Registered	Appeared	Passed
803	783	476 (60.79%)

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MAHATMA GANDHI UNIVERSITY KOTTAYAM

Approved for Issue

SECTION OFFICER

!"#$%&"'()

*+(,)(#-%.#,/-0%"#+(1,23,4(0,&)(,52),"''(1"&.(,"352)'&."23,
25,.+(,(6&'"3((#7,*+(#(,$&332.,0(,.)(&.(1,&#,2)"8"3&%,'&)9,
#+((.#7,:)"8"3&%,'&)9,#+((.#,+&;(,0((3,"##-(1,0<,.+(,
=3";()#".<,#(/&)&.(%<7,

%109:33;

0000000000000000000000000000(<="
7)6+.)33/.0)*0#$-5:6-+:)6;

!"#$%&'()*+%,-).//')!"#$%#&')+"0.123')('4'&"$'()56))()*+,-./01/2/3)45/6+0'/-502.)
7#'#87823''9+/2):/242,7);2/2.#2)<2,(/%)=,%4'3+%.6)>"..262#?

! "#"$%"& ' "()#*&+(*,-./*$0&12$$"0"%

!"#$%&'()''*"+(,-'*". "#&"/''0'*+'1"2/""'345.6,5&6(,'7$,"'89::

;<*=>?'@;!@=@0'030>!<@A'B>AA3C3'D=E!ED=<B@1

;/5,+F'GH'I@J'@KK%6"-'BF".6#&/L'I>6%#'M5&#'5,-'@/(.5&6+#J

*303*D3!'?@**

!!!"#"$%&%' !!!"#($)!#' !!!"#%$)"(' !!!"#)$%)"'

!!!"#*$%&*' !!!"#+$)(!'

;<*=>?'@;!@=@0'030>!<@A'B>AA3C3'D=E!ED=<B@1

;/5,+F'GH'I@J'@KK%6"-'BF".6#&/L'I>6%#'M5&#'5,-'@/(.5&6+#J

?@?3!'?@**

888:98

B='@>'89NH B='@>'89OH B='@>'89PH B='@>'89QH B='@>'89RH

888:9S

B='@>'89NH B='@>'89PH B='@>'89QH B='@>'89RH

888::9

B='@>'89PH B='@>'89QH B='@>'89RH

%109:33;

<=>?<><?@<

0000000000000000000000000000(AB"

7)6+.)33/.0)*0#$-5:6-+:)6;

!"#!$#"!%" &'()*+,-.,,/'0123,/'4'(+'5,,6,/0,7'85'',9:;4<2;+<12,=)2',"!%% %

>14?<*'3,)(<28,+@',!"#$%#&',(1.+A;5',3'B'*1?'3,CD,,()*+,-./01/2/3)45/6+0'/-50;+,

7#'#8EF;5''G(@;,H@;B;2E,6;@;+4;,I;23@<,J2<B'5(<+D,K1++;D;4L

! "#"$%"& ' "( )#*&+(*,-./*$0&12$$"0"%

!"#$%&'()''*"+(,-'*"."#&"/''0'*+'1"2/""'345.6,5&6(,'7$,"'89::

B'0'*'B>AA3C3'T>DD@U@0

;/5,+F'GH'I@J'@KK%6"-'BF".6#&/L'I>6%#'M5&#'5,-'@/(.5&6+#J

*303*D3!'?@**

!!!"+!$%+#' !!!"+%$%&!' !!!"+)$%,%' !!!"+*$%+!'

!!!"++$)#,' !!!"+&$%,+' !!!"+,$)#!' !!!"&#$%&*'

!!!"&"$)##'

B'0'*'B>AA3C3'T>DD@U@0

;/5,+F'GH'I@J'@KK%6"-'BF".6#&/L'I>6%#'M5&#'5,-'@/(.5&6+#J

?@?3!'?@**

888:R:

B='@>'898H B='@>'89PH B='@>'89QH B='@>'89RH

888:RN

B='@>'898H B='@>'89OH B='@>'89PH B='@>'89QH B='@>'89RH

%109:33;

<=>?<><?@<

000000000000000000000000000(AB"

7)6+.)33/.0)*0#$-5:6-+:)6;

!"#!$#"!%" &'()*+,-.,,/'0123,/'4'(+'5,,6,/0,7'85'',9:;4<2;+<12,=)2',"!%% "

>14?<*'3,)(<28,+@',!"#$%#&',(1.+A;5',3'B'*1?'3,CD,,()*+,-./01/2/3)45/6+0'/-50;+,

7#'#8EF;5''G(@;,H@;B;2E,6;@;+4;,I;23@<,J2<B'5(<+D,K1++;D;4L

! "#"$%"& ' "( )#*&+ (*, -. /*$0&1 2$$"0"%

!"#$%&'()''*"+(,-'*". "#&"/'' 0 '*+'1"2/""'345 . 6,5&6(,'7$,"'89::

0 @ = @ ! @7@*'B > AA3C3'3 ! V @ T E A @ 0

;/5,+F'GH'I@J'@KK%6"-'BF" . 6#&/L'I > 6%#'M5&#'5,-'@/(. 5&6+#J

*3 0 3*D3!'?@**

!!!!%!$)%*' !!!!%($%,"' !!!!%%$)*&'

0 @ = @ ! @7@*'B > AA3C3'3 ! V @ T E A @ 0

;/5,+F'GH'I@J'@KK%6"-'BF" . 6#&/L'I > 6%#'M5&#'5,-'@/(. 5&6+#J

?@?3!'?@**

88880:

B = '@ > '89OH B = '@ > '89PH B = '@ > '89QH B = '@ > '89RH

88880P

B = '@ > '89PH B = '@ > '89QH B = '@ > '89RH

%109:33;

<=>?<><?@<

0000000000000000000000000000(AB"

7)6+.)33/.0)*0#$-5:6-+:)6;

!"#!$#"!%" &'()*+,-.,,/'0123,/'4'(+'5,,6,/0,7'85'',9:;4<2;+<12,=)2',"!%% $

>14?<*'3,)(<28,+@',!"#$%#&',(1.+A;5',3'B'*1?'3,CD,,()*+,-./01/2/3)45/6+0'/-50;+,

7#'#8EF;5''G(@;,H@;B;2E,6;@;+4;,I;23@<,J2<B'5(<+D,K1++;D;4L

! "#"$%"& ' "( )#*&+ (*, -. /*$0&1 2$$"0"%

!"#$%&'()''*"+(,-'*". "#&"/''0'*+'1"2/""'345 . 6,5&6(,'7$,"'89::

!33'@VT@!@'B>AA3C3'T@A@1U

;/5,+F'GH'I@J'@KK%6"-'BF" . 6#&/L'I>6%#'M5&#'5,-'@/(. 5&6+#J

*3 0 3*D3!'?@**

!!!(#!$)),' !!!(#%$)#"' !!!(#*$)*&' !!!(#&$)!#'

!!!(#,$)!#' !!!("#$)&,' !!!(""$)!,' !!!("!$)#"'

!33'@VT@!@'B>AA3C3'T@A@1U

;/5,+F'GH'I@J'@KK%6"-'BF" . 6#&/L'I>6%#'M5&#'5,-'@/(. 5&6+#J

?@?3!'?@**

888N9:

B='@>'89:H B='@>'89NH B='@>'89OH B='@>'89PH B='@>'89QH B='@>'89RH

888N9N

B='@>'89:H B='@>'89PH B='@>'89QH B='@>'89RH

888N9P

B='@>'89:H B='@>'89PH B='@>'89QH B='@>'89RH

888N9R

B='@>'89:H B='@>'89NH B='@>'89PH B='@>'89QH B='@>'89RH

%10 9:33;

<=>?<><?@<

0000000000000000000000000000(AB"

7)6+.)33/.0)*0#$-5:6-+:)6;

!"#!$#"!%" &'()*+,-.,,/'0123,/'4'(+'5,,6,/0,7'85'',9:;4<2;+<12,=)2',"!%%

M

>14?<*'3,)(<28,+@',!"#$%#&',(1.+A;5',3'B'*1?'3,CD,,()*+,-./01/2/3)45/6+0'/-50;+,

7#'#8EF;5''G(@;,H@;B;2E,6;@;+4;,I;23@<,J2<B'5(<+D,K1++;D;4L

! "#"$%"& ' "( )#*&+ (*, - . /*$0&1 2$$"0"%

!"#$%&'()''*"+(,-'*" . "#&"/'' 0 '*+'1"2/""'345 . 6,5&6(,'7$,"'89::

%1090:33;
<=>?<><?@<

000000000000000000000000000000(AB"
7)6+.)33/.0)*0#$-5:6-+:)6;

!"#!$#"!%" &'()*+, - .,,/'0123,/'4'(+'5,, 6,/0,7'85'',9:;4<2;+<12,=)2',"!%% N

>14?<*'3,)(<28,+@',!"#$%#&',(1.+A;5',3'B'*1?'3,CD,,()*+, -./01/2/3)45/6+0'/-50;+,
7#'#8EF;5''G(@;,H@;B;2E,6;@;+4;,I;23@<,J2<B'5(<+D,K1++;D;4L

! "#"$%"& ' "( )#*&+(*, -. /*$0&12$$"0"%

!"#$%&'()''*"+(,-'*". "#&"/'' 0'*+'1"2/""'*$33%". ",&4/5'674 . 8,4&8(,'9$,"':;<<

=>*?@A'B=!B?B0'060@!>BC'D@CC6E6'F?G!GF?>DB1

=/4,+H'I]'KBL'B33%8"-'DH". 8#&/5'K@8%#'M4&#'4,-'B/(. 4&8+#L

*606*F6!'AB**

N<O;PQKRS<L N<O;PRKRT;L N<O;POKRN<L

=>*?@A'B=!B?B0'060@!>BC'D@CC6E6'F?G!GF?>DB1

ABA6!'AB**

N<O;PP'

D?'B@':;QJ

%2*:;44<
=>?@=?=@A=

+B%"
8,7.1,44)1*,-*#$06;70.;,7<

!"#!$#"!%" "#$%&'()*((+#,-./(+#0#$'#1((2(+,(3#41##(+%55&#0#.'617(8960:.6':-.(;%.#(<=!!

>-05:&#/(%$:.4('?#(!"#$%#&'($-*'@61#(/#A#&-5#/(B7('()*+,-./01)*2)3)4,56)7.*')06*6'(
8#'#9%D61##E$?6(F?6A6.%(26?6'06(G6./?:(H.:A#1$:'7(I-''6760J

! "#"$%"& ' "()#*&+(*,-./*$0&12$$"0"%

!"#$%&'()''*"+(,-'*".'#&"/''0'*+'1"2/""'*$33%".",&4/5'674.8,4&8(,'9$,"':;<<

D'0'*'D@CC6E6'U@FFBVB0

=/4,+H'IJ'KBL'B33%8"-'DH".8#&/5'K@8%#'M4&#'4,-'B/(.4&8+#L

*6 0 6*F6!'AB**

N<0;;<KRP;L

ABA6!'AB**

W8%

%2*:;44<
=>?@=?=@A=

+BC"
8,7.1,44)1*,-*#$06;70.;,7<

!"#!$#"!%" "#$%&'()*((+#,-./(+#0#$'#1((2(+,(3#41##(+%55&#0#.'617(8960:.6':-.(;%.#(<=!!

>-05:&#/(%$:.4('?#(!"#$%#&'($-*'@61#(/#A#&-5#/(B7('()*+,-./01)*2)3)4,56)7.*')06*6'(
8#'#9CD61##E$?6(F?6A6.C(26?6'06(G6./?:(H.:A#1$:'7(I-''6760J

0B?B!B9B*'D@CC6E6'6!WBUGCB0

=/4,+H'IJ'KBL'B33%8"-'DH".8#&/5'K@8%#'M4&#'4,-'B/(.4&8+#L

*6 0 6*F6!'AB**

W8%

ABA6!'AB**

W8%

%2*:;44<
=>?@=?=@A=

+B℃"
8,7.1,44)1*,-*#$06;70.;,7<

K

!"#!$#"!%" "#$%&'()*((+#,-./(+#0#$'#1((2(+,(3#41##(+%55&#0#.'617(8960:.6':-.(;%.#(<=!!

>-05:&#/(%$:.4('?#(!"#$%#&'($-*'@61#(/#A#&-5#/(B7('()*+,-./01)*2)3)4,56)7.*')06*6'(
8#'#9℃D61##E$?6(F?6A6.℃(26?6'06(G6./?:(H.:A#1$:'7(I-''6760J

! "#"$%"& ' "()#*&+(*,-./*$0&12$$"0"%

!"#$%&'()''*"+(,-'*".'"#&"/''0'*+'1"2/""'*$33%".",&4/5'674.8,4&8(,'9$,"':;<<

*!66'*BWUB!B'D@CC6E6'UBCB1V

=/4,+H'IJ'KBL'B33%8"-'DH".8#&/5'K@8%#'M4&#'4,-'B/(.4&8+#L

*606*F6!'AB**

N<O;R<KO;PL N<O;R:KO<:L N<O;RPKORQL N<O;RSKRNNL

*!66'*BWUB!B'D@CC6E6'UBCB1V

ABA6!'AB**

N<O;RN'

D?'B@':;:J

%2':;44<

=>?@=?=@A=

+B%"

8,7.1,44)1',-'#$06;70.;,7<

!"#!$#"!%" "#$%&'()*((+#,-./(+#0#$'#1((2(+,(3#41##(+%55&#0#.'617(8960:.6':-.(;%.#(<=!!

>-05:&#/(%$:.4('?#(!"#$%#&'($-*'@61#(/#A#&-5#/(B7('()*+,-./01)*2)3)4,56)7.*')06*6'(

8#'#9%D61##E$?6(F?6A6.%(26?6'06(G6./?:(H.:A#1$:'7(I-''6760J

! "#"$%"&' "()#*&+(*,-./*$0&12$$"0"%

!"#$%&'()''*"+(,-'*"."#&"/''0'*+'1"2/""'*$33%".",&4/5'674.8,4&8(,'9$,"':;<<

%2*:;44<
=>?@=?=@A=

+BC"
8,7.1,44)1*,-*#$06;70.;,7<

M

!"#!$#"!%"

"#$%&'()*((+#,-./(+#0#$'#1((2(+,(3#41##(+%55&#0#.'617(8960:.6':-.(;%.#(<=!!

>-05:&#/(%$:.4('?#(!"#$%#&'($-*'@61#(/#A#&-5#/(B7('()*+,-./01)*2)3)4,56)7.*')06*6'(
8#'#9CD61##E$?6(F?6A6.C(26?6'06(G6./?:(H.:A#1$:'7(I-''6760J

Date of Publication: 27.02.2012

MAHATMA GANDHI UNIVERSITY

N O T I F I C A T I O N

No: EH II/371/2012

P.D.Hills,
Dated: 27.02.2012

It is hereby notified that the result of M.Sc Branch III, IV(A), IV(B), V(A) & (B) Chemistry Degree examination Second Semester held in June 2011 is published on 27.02.2012.

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MAHATMA GANDHI UNIVERSITY KOTTAYAM

Approved for Issue

SECTION OFFICER

!"#$%&"'()

*+(,)(#-%.#,/-0%"#+(1,23,4(0,&)(,52),"''(1"&.(,"352)'&."23,
25,.+(,(6&'"3((#7,*+(#(,$&332.,0(,.)(&.(1,&#,2)"8"3&%,'&)9,
#+((.#7,:)"8"3&%,'&)9,#+((.#,+&;(,0((3,"##-(1,0<,.+(,
=3";()#".<,#(/&)&.(%<7,

%109:33;

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7)6+.)33/.0)*0#$-5:6-+:)6;

!"#$%&'()*+%,-).//')!"#$%#&')+"0.123')('4'&"$'()56))()*+,-./01/2/3)45/6+0'/-502.)
7#'#87823''9+/2):/242,7);2/2.#2)<2,(/%)=,%4'3+%.6)>"..262#?

! "#"$%"& ' "()#*&+(*,-./*$0&12$$"0"%

!"#$%&'()''*"+(,-'*".'"#&"/''0'*+'1"2/""'345.6,5&6(,'7$,"'89::

;<=!=>='0=><='?@AA3B3'><!CDD=D=!=

;/5,+E'FG'H;I'=JJ%6"-'?E".6#&/K'HLE5/.5+"$&6+5%'?E".6#&/KI

303>3!'L=**

!!!"#!$"%&' !!!"#($"%)' !!!"#"$"*)' !!!"#*$*#%'

!!!"#&$*(#' !!!"+#$*#%'

;<=!=>='0=><='?@AA3B3'><!CDD=D=!=

;/5,+E'FG'H;I'=JJ%6"-'?E".6#&/K'HLE5/.5+"$&6+5%'?E".6#&/K

L=L3!'L=**

888M9:

?<'=L'89NG ?<'=L'89OG ?<'=L'89PG

888M9O

?<'=L'89:G ?<'=L'89QG ?<'=L'89NG ?<'=L'89OG ?<'=L'89PG

888M9R

?<'=L'89:G ?<'=L'89MG ?<'=L'89NG ?<'=L'89OG ?<'=L'89PG

888M9S

?<'=L'89NG ?<'=L'89OG ?<'=L'89PG

888M::

?<'=L'89NG ?<'=L'89OG ?<'=L'89PG

888M:8

?<'=L'89NG ?<'=L'89OG ?<'=L'89PG

888M:Q

?<'=L'89NG ?<'=L'89OG ?<'=L'89PG

888M:M

?<'=L'89NG ?<'=L'89OG ?<'=L'89PG

%109:33;

<=>?<><?@<

0000000000000000000000000000(AB"

7)6+.)33/.0)*0#$-5:6-+:)6;

!"#!$#"!%" &'()*+,-.,,/'0123,/'4'(+'5,,6,/0,7'85'',9:;4<2;+<12,=)2',"!%% %

>14?<*'3,)(<28,+@',!"#$%#&',(1.+A;5',3'B'*1?'3,CD,,()*+,-./01/2/3)45/6+0'/-50;+,

7#'#8EF;5''G(@;,H@;B;2E,6;@;+4;,I;23@<,J2<B'5(<+D,K1++;D;4L

! "#"$%"& ' "()#*&+(*,-./*$0&12$$"0"%

!"#$%&'()''*"+(,-'*".'"#&"/''0'*+'1"2/""'345.6,5&6(,'7$,"'89::

B@F>''?@AA3B3'0=TC0=A=DUTTU''D@@><=>>UDUA=0

;/5,+E'FG'H;I'=JJ%6"-'?E".6#&/K'HLE5/.5+"$&6+5%'?E".6#&/KI

303>3!'L=**

!!!"&!$*#,' !!!"&)$"%&' !!!"&&$",(' !!!"&,$*!('

!!!"&%$*!+' !!!",#$*+#' !!!",!$*!"'

B@F>''?@AA3B3'0=TC0=A=DUTTU''D@@><=>>UDUA=0

;/5,+E'FG'H;I'=JJ%6"-'?E".6#&/K'HLE5/.5+"$&6+5%'?E".6#&/K

L=L3!'L=**

888MP:

?<'=L'89NG ?<'=L'89OG ?<'=L'89PG

888MPQ

?<'=L'89:G ?<'=L'89NG ?<'=L'89OG ?<'=L'89PG

888MPM

?<'=L'89MG ?<'=L'89NG ?<'=L'89OG ?<'=L'89PG

888MPN

?<'=L'89QG ?<'=L'89NG ?<'=L'89OG ?<'=L'89PG

888MR:

?<'=L'89NG ?<'=L'89OG ?<'=L'89PG

%109:33;

<=>?<><?@<

000000000000000000000000000(AB"

7)6+.)33/.0)*0#$-5:6-+:)6;

!"#!$#"!%" &'()*+,-.,,/'0123,/'4'(+'5,,6,/0,7'85'',9:;4<2;+<12,=)2',"!%%

>14?<*'3,)(<28,+@',!"#$%#&',(1.+A;5',3'B'*1?'3,CD,,()*+,-./01/2/3)45/6+0'/-50;+,

7#'#8EF;5''G(@;,H@;B;2E,6;@;+4;,I;23@<,J2<B'5(<+D,K1++;D;4L

! "#"$%"& ' "()#*&+(*,-./*$0&12$$"0"%

!"#$%&'()''*"+(,-'*".'"#&"/''0'*+'1"2/""'345.6,5&6(,'7$,"'89::

0=<=!=7=*'?@AA3B3'3!T=DUA=0

;/5,+E'FG'H;I'=JJ%6"-'?E".6#&/K'HLE5/.5+"$&6+5%'?E".6#&/KI

303>3!'L=**

!!!*"+$*##' !!!*"*$*+&'

0=<=!=7=*'?@AA3B3'3!T=DUA=0

;/5,+E'FG'H;I'=JJ%6"-'?E".6#&/K'HLE5/.5+"$&6+5%'?E".6#&/K

L=L3!'L=**

888NMQ

?<'=L'89NG ?<'=L'89OG ?<'=L'89PG

888NMM

?<'=L'89:G ?<'=L'89NG ?<'=L'89OG ?<'=L'89PG

888NMO

?<'=L'89NG ?<'=L'89OG ?<'=L'89PG

888NMP

?<'=L'89NG ?<'=L'89OG ?<'=L'89PG

%109:33;

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7)6+.)33/.0)*0#$-5:6-+:)6;

!"#!$#"!%" &'()*+,-.,,/'0123,/'4'(+'5,,6,/0,7'85'',9:;4<2;+<12,=)2',"!%%

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>14?<*'3,)(<28,+@',!"#$%#&',(1.+A;5',3'B'*1?'3,CD,,()*+,-./01/2/3)45/6+0'/-50;+,

7#'#8EF;5''G(@;,H@;B;2E,6;@;+4;,I;23@<,J2<B'5(<+D,K1++;D;4L

! "#"$%"& ' "()#*&+(*,-./*$0&12$$"0"%

!"#$%&'()''*"+(,-'*".'"#&"/''0'*+'1"2/""'345.6,5&6(,'7$,"'89::

*'<''?@AA3B3'><3F=!=

;/5,+E'FG'H;I'=JJ%6"-'?E".6#&/K'HLE5/.5+"$&6+5%'?E".6#&/KI

303>3!'L=**

!!!)#+$**"' !!!)#!$",%' !!!)#"$*++' !!!)#*$*!*'

!!!)#%$*(!' !!!)+#$*)(' !!!)++$",)' !!!)+!$*&+'

*'<''?@AA3B3'><3F=!=

;/5,+E'FG'H;I'=JJ%6"-'?E".6#&/K'HLE5/.5+"$&6+5%'?E".6#&/K

L=L3!'L=**

88809Q

?<'=L'89NG ?<'=L'89OG ?<'=L'89PG

888090

?<'=L'898G ?<'=L'89MG ?<'=L'89NG ?<'=L'89OG ?<'=L'89PG

88809R

?<'=L'89:G ?<'=L'898G ?<'=L'89NG ?<'=L'89OG ?<'=L'89PG

%109:33;

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7)6+.)33/.0)*0#$-5:6-+:)6;

!"#!$#"!%" &'()*+,-.,,/'0123,/'4'(+'5,,6,/0,7'85'',9:;4<2;+<12,=)2',"!%%

M

>14?<*'3,)(<28,+@',!"#$%#&',(1.+A;5',3'B'*1?'3,CD,,()*+,-./01/2/3)45/6+0'/-50;+,

7#'#8EF;5''G(@;,H@;B;2E,6;@;+4;,I;23@<,J2<B'5(<+D,K1++;D;4L

! "#"$%"& ' "( )#*&+ (*, - . /*$0&1 2$$"0"%

!"#$%&'()''*"+(,-'*" . "#&"/'' 0 '*+'1"2/""'345 . 6,5&6(,'7$,"'89::

%1090:33;
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000000000000000000000000000000(AB"
7)6+.)33/.0)*0#$-5:6-+:)6;

!"#!$#"!%" &'()*+, - .,,/'0123,/'4'(+'5,, 6,/0,7'85'',9:;4<2;+<12,=)2',"!%% N

>14?<*'3,)(<28,+@',!"#$%#&',(1.+A;5',3'B'*1?'3,CD,,()*+, -./01/2/3)45/6+0'/-50;+,
7#'#8EF;5''G(@;,H@;B;2E,6;@;+4;,I;23@<,J2<B'5(<+D,K1++;D;4L

! "#"$%"& ' "( )#*&+(*, -. /*$0&12$$"0"%

!"#$%&'()''*"+(,-'*". "#&"/'' 0'*+'1"2/""'*$33%". ",&4/5'674 . 8,4&8(,'9$,"':;<<

=>?!?@?'0?@>?'ABCC6D6'@>!EFF?F?!?

=/4,+G'HI'J=K'?33%8"-'AG" . 8#&/5'JLG4/ . 4+"$&8+4%'AG" . 8#&/5K

606@6!'L?**

M8%

L?L6!'L?**

M8%

%2*:;44<
=>?@=?=@A=

+B("
8,7.1,44)1*,-*#$06;70.;,7<

!"#!$#"!%" "#$%&'()*((+#,-./(+#0#$'#1((2(+,(3#41##(+%55&#0#.'617(8960:.6':-.(;%.#(<=!!

>-05:&#/(%$:.4('?#(!"#$%#&'($-*'@61#(/#A#&-5#/(B7('()*+,-./01)*2)3)4,56)7.*')06*6'(
8#'#9CD61##E$?6(F?6A6.C(26?6'06(G6./?:(H.:A#1$:'7(I-''6760J

! "#"$%"& ' "()#*&+(*,-./*$0&12$$"0"%

!"#$%&'()''*"+(,-'*".'"#&"/''0'*+'1"2/""'*$33%".",&4/5'674.8,4&8(,'9$,"':;<<

DBH@''ABCC6D6'0?ME0?C?FNMMN''FBB@>?@@NFNC?0

=/4,+G'HI'J=K'?33%8"-'AG".8#&/5'JLG4/.4+"$&8+4%'AG".8#&/5K

6 0 6@6!'L?**

0<P<QPJRQRK 0<P<QQJRO;K

L?L6!'L?**

M8%

%2*:;44<
=>?@=?=@A=

+B℃"
8,7.1,44)1*,-*#$06;70.;,7<

!"#!$#"!%" "#$%&'()*((+#,-./(+#0#$'#1((2(+,(3#41##(+%55&#0#.'617(8960:.6':-.(;%.#(<=!!

>-05:&#/(%$:.4('?#(!"#$%#&'($-*'@61#(/#A#&-5#/(B7('()*+,-./01)*2)3)4,56)7.*')06*6'(
8#'#9℃D61##E$?6(F?6A6.℃(26?6'06(G6./?:(H.:A#1$:'7(I-''6760J

! "#"$%"& ' "()#*&+(*,-./*$0&12$$"0"%

!"#$%&'()''*"+(,-'*".'#&"/''0'*+'1"2/""'*$33%".",&4/5'674.8,4&8(,'9$,"':;<<

0?>?!?9?*'ABCC6D6'6!M?FNC?0

=/4,+G'HI'J=K'?33%8"-'AG".8#&/5'JLG4/.4+"$&8+4%'AG".8#&/5K

606@6!'L?**

0<P<;:JPR:K 0<P<;SJRTPK

L?L6!'L?**

M8%

%2*:;44<
=>?@=?=@A=

+BC"
8,7.1,44)1*,-*#$06;70.;,7<

K

!"#!$#"!%" "#$%&'()*((+#,-./(+#0#$'#1((2(+,(3#41##(+%55&#0#.'617(8960:.6':-.(;%.#(<=!!

>-05:&#/(%$:.4('?#(!"#$%#&'($-*'@61#(/#A#&-5#/(B7('()*+,-./01)*2)3)4,56)7.*')06*6'(
8#'#9CD61##E$?6(F?6A6.C(26?6'06(G6./?:(H.:A#1$:'7(I-''6760J

! "#"$%"& ' "()#*&+(*,-./*$0&12$$"0"%

!"#$%&'()''*"+(,-'*".'#&"/''0'*+'1"2/""'*$33%".",&4/5'674.8,4&8(,'9$,"':;<<

*'>''ABCC6D6'@>6H?!?

=/4,+G'HI'J=K'?33%8"-'AG".8#&/5'JLG4/.4+"$&8+4%'AG".8#&/5K

6 0 6@6!'L?**

0<P<R<JROOK

L?L6!'L?**

M8%

%2*:;44<
=>?@=?=@A=

+B("
8,7.1,44)1*,-*#$06;70.;,7<

!"#!$#"!%" "#$%&'()*((+#,-./(+#0#$'#1((2(+,(3#41##(+%55&#0#.'617(8960:.6':-.(;%.#(<=!!

>-05:&#/(%$:.4('?#(!"#$%#&'($-*'@61#(/#A#&-5#/(B7('()*+,-./01)*2)3)4,56)7.*')06*6'(
8#'#9CD61##E$?6(F?6A6.C(26?6'06(G6./?:(H.:A#1$:'7(I-''6760J

! "#"$%"&' "()#*&+(*,-./*$0&12$$"0"%

!"#$%&'()''*"+(,-'*"."#&"/''0'*+'1"2/""'*$33%".",&4/5'674.8,4&8(,'9$,"':;<<

%2*:;44<
=>?@=?=@A=

+BC"
8,7.1,44)1*,-*#$06;70.;,7<

M

!"#!$#"!%" "#$%&'()*((+#,-./(+#0#$'#1((2(+,(3#41##(+%55&#0#.'617(8960:.6':-.(;%.#(<=!!

>-05:&#/(%$:.4('?#(!"#$%#&'($-*'@61#(/#A#&-5#/(B7('()*+,-./01)*2)3)4,56)7.*')06*6'(
8#'#9CD61##E$?6(F?6A6.C(26?6'06(G6./?:(H.:A#1$:'7(I-''6760J

Date of Publication: 27.02.2012

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!"#$%&"'()

*+(,)(#-%.#,/-0%"#+(1,23,4(0,&)(,52),"''(1"&.(,"352)'&."23,
25,.+(,(6&'"3((#7,*+(#(,$&332.,0(,.)(&.(1,&#,2)"8"3&%,'&)9,
#+((.#7,:)"8"3&%,'&)9,#+((.#,+&;(,0((3,"##-(1,0<,.+(,
=3";()#".<,#(/&)&.(%<7,

%109:33;

0000000000000000000000000000(<="
7)6+.)33/.0)*0#$-5:6-+:)6;

!"#$%&'()*+%,-).//')!"#$%#&')+"0.123')('4'&"$'()56))()*+,-./01/2/3)45/6+0'/-502.)
7#'#87823''9+/2):/242,7);2/2.#2)<2,(/%)=,%4'3+%.6)>"..262#?

! "#"$%"& ' "()#*&+(*,-./*$0&12$$"0"%

!"#$%&'()''*"+(,-'*".'"#&"/''0'*+'1"2/""'345.6,5&6(,'7$,"'89::

;<=>?@A;<=3';?@@3B3'C<=><D<0=>A==<

E/5,+F'AGH'IEJ'C(%K."/';F".6#&/K

303=3!'C<**

!!!""#$%&&' !!!""%$%(#' !!!""&$)*)' !!!"#"$)#"'

;<=>?@A;<=3';?@@3B3'C<=><D<0=>A==<

E/5,+F'AGH'IEJ'C(%K."/';F".6#&/K

C<C3!'C<**

888998

;>'C;'89LH ;>'C;'89MH ;>'C;'89NH

888990

;>'C;'89LH ;>'C;'89MH ;>'C;'89NH

88899L

;>'C;'89:H ;>'C;'89LH ;>'C;'89MH ;>'C;'89NH

88899M

;>'C;'89:H ;>'C;'89LH ;>'C;'89MH ;>'C;'89NH

88899N

;>'C;'89:H ;>'C;'89OH ;>'C;'89LH ;>'C;'89MH ;>'C;'89NH

88899P

;>'C;'89:H ;>'C;'89LH ;>'C;'89MH ;>'C;'89NH

%109:33;

<=>?<><?@<

0000000000000000000000000000(AB"

7)6+.)33/.0)*0#$-5:6-+:)6;

!"#!$#"!%" &'()*+,-.,,/'0123,/'4'(+'5,,6,/0,7'85'',9:;4<2;+<12,=)2',"!%% %

>14?<*'3,)(<28,+@',!"#$%#&',(1.+A;5',3'B'*1?'3,CD,,()*+,-./01/2/3)45/6+0'/-50;+,

7#'#8EF;5''G(@;,H@;B;2E,6;@;+4;,I;23@<,J2<B'5(<+D,K1++;D;4L

! "#"$%"& ' "()#*&+(*,-./*$0&12$$"0"%

!"#$%&'()''*"+(,-'*".'"#&"/''0'*+'1"2/""'345.6,5&6(,'7$,"'89::

*'E'';?@@3B3';><DB<D<;>3!!Q

E/5,+F'AGH'IEJ'C(%K."/';F".6#&/K

303=3!'C<**

!!!"+!$)""' !!!"+*$%&"' !!!"+%$%()' !!!"+)$%&%'

!!!"+,$)*"' !!!"++$)*+'

*'E'';?@@3B3';><DB<D<;>3!!Q

E/5,+F'AGH'IEJ'C(%K."/';F".6#&/K

C<C3!'C<**

8889N:

;>'C;'89RH ;>'C;'89LH ;>'C;'89MH ;>'C;'89NH

8889NP

;>'C;'89RH ;>'C;'89LH ;>'C;'89MH ;>'C;'89NH

8889S9

;>'C;'89LH ;>'C;'89MH ;>'C;'89NH

%109:33;

<=>?<><?@<

000000000000000000000000000(AB"

7)6+.)33/.0)*0#$-5:6-+:)6;

!"#!$#"!%" &'()*+,-.,,/'0123,/'4'(+'5,,6,/0,7'85'',9:;4<2;+<12,=)2',"!%%

>14?<*'3,)(<28,+@',!"#$%#&',(1.+A;5',3'B'*1?'3,CD,,()*+,-./01/2/3)45/6+0'/-50;+,

7#'#8EF;5''G(@;,H@;B;2E,6;@;+4;,I;23@<,J2<B'5(<+D,K1++;D;4L

! "#"$%"& ' "( )#*&+ (*, -. /*$0&1 2$$"0"%

!"#$%&'()''*"+(,-'*". "#&"/'' 0 '*+'1"2/""'345 . 6,5&6(,'7$,"'89::

%1 0 9 :33;
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7)6+.)33/.0)*0#$-5:6-+:)6;

!"#!$#"!%" &'()*+, - .,,/'0123,/'4'(+'5,, 6,/0,7'85'',9:;4<2;+<12,=)2',"!%% $

>14?<*'3,)(<28,+@',!"#$%#&',(1.+A;5',3'B'*1?'3,CD,,()*+, -./01/2/3)45/6+0'/-50;+,
7#'#8EF;5''G(@;,H@;B;2E, 6;@;+4;,I;23@<,J2<B'5(<+D,K1++;D;4L

! "#"$%"& ' "( )#*&+(*, -. /*$0&12$$"0"%

!"#$%&'()''*"+(,-'*". "#&"/'' 0'*+'1"2/""'*$33%". ",&4/5'674 . 8,4&8(,'9$,"':;<<

=>?@ABC=>?6'=ABB6D6'E>?@>F>0?@C??>

G/4,+H'CIJ'KGL'E(%5 . "/'=H" . 8#&/5

606?6!'E>**

F8%

=>?@ABC=>?6'=ABB6D6'E>?@>F>0?@C??>

E>E6!'E>**

M<NM:O'

=@'E='':;0J

M<NM:P'

=@'E='':;0J =@'E='':;NJ

%2*:;44<
=>?@=?=@A=

+BC"
8,7.1,44)1*,-*#$06;70.;,7<

!"#!$#"!%" "#$%&'()*((+#,-./(+#0#$'#1((2(+,(3#41##(+%55&#0#.'617(8960:.6':-.(;%.#(<=!!

>-05:&#/(%$:.4('?#(!"#$%#&'($-*'@61#(/#A#&-5#/(B7('()*+,-./01)*2)3)4,56)7.*')06*6'(
8#'#9CD61##E$?6(F?6A6.C(26?6'06(G6./?:(H.:A#1$:'7(I-''6760J

*'G''=ABB6D6'=@>FD>F>=@6!!Q

G/4, +H'CIJ'KGL'E(%5 . "/'=H" . 8#&/5

6 0 6?6!'E>**

M<NM;OKR<RL

*'G''=ABB6D6'=@>FD>F>=@6!!Q

E>E6!'E>**

M<NM;:'

=@'E='':;NJ

%2*:;44<
=>?@=?=@A=

+BC"
8,7.1,44)1*,-*#$06;70.;,7<

!"#!$#"!%" "#$%&'()*((+#,-./(+#0#$'#1((2(+,(3#41##(+%55&#0#.'617(8960:.6':-.(;%.#(<=!!

>-05:&#/(%$:.4('?#(!"#$%#&'($-*'@61#(/#A#&-5#/(B7('()*+,-./01)*2)3)4,56)7.*')06*6'(
8#'#9CD61##E$?6(F?6A6.C(26?6'06(G6./?:(H.:A#1$:'7(I-''6760J

! "#"$%"&' "()#*&+(*,-./*$0&12$$"0"%

!"#$%&'()''*"+(,-'*"."#&"/''0'*+'1"2/""'*$33%".",&4/5'674.8,4&8(,'9$,"':;<<

%2*:;44<
=>?@=?=@A=

+BC"
8,7.1,44)1*,-*#$06;70.;,7<

K

!"#!$#"!%" "#$%&'()*((+#,-./(+#0#$'#1((2(+,(3#41##(+%55&#0#.'617(8960:.6':-.(;%.#(<=!!

>-05:&#/(%$:.4('?#(!"#$%#&'($-*'@61#(/#A#&-5#/(B7('()*+,-./01)*2)3)4,56)7.*')06*6'(
8#'#9CD61##E$?6(F?6A6.C(26?6'06(G6./?:(H.:A#1$:'7(I-''6760J

Date of Publication: 27.02.2012

MAHATMA GANDHI UNIVERSITY

Priyadarsini Hills,

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N O T I F I C A T I O N

It is hereby notified that the result of M.Sc Applied Statistics with Computer Application/OR & CA Degree Examination II Semester held in June 2011 is published on 27.02.2012.

RESULT AT A GLANCE

No. of Candidates:

Exam	Registered	Appeared	Passed
M.Sc Applied Statistics with Computer Application/ OR & CA June 2011	7	7	6

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Sd/-
CONTROLLER OF EXAMINATIONS

To
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2. PRO (for arranging a press release)
3. AR/DR/JR
4. Enquiry
5. PA to CE
6. CETEX
7. EJ V Sn.
8. EJ IX Sn.
9. EA I Sn.
10. Tappal Sn./Front Office/Cash Counter
11. Statistical Unit
12. File Copy.

Approved for Issue

Geetha.S
SECTION OFFICER

!"#$%&"'()

*+(,)(#-%.#,/-0%"#+(1,23,4(0,&)(,52),"''(1"&.(,"352)'&."23,
25,.+(,(6&'"3((#7,*+(#(,$&332.,0(,.)(&.(1,&#,2)"8"3&%,'&)9,
#+((.#7,:)"8"3&%,'&)9,#+((.#,+&;(,0((3,"##-(1,0<,.+(,
=3";()#".<,#(/&)&.(%<7,

%109:33;

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7)6+.)33/.0)*0#$-5:6-+:)6;

!"#$%&'()*+%,-).//')!"#$%#&')+"0.123')('4'&"$'()56))()*+,-./01/2/3)45/6+0'/-502.)
7#'#87823''9+/2):/242,7);2/2.#2)<2,(/%)=,%4'3+%.6)>"..262#?

! "#"$%"& ' "()#*&+(*,-./*$0&12$$"0"%

!"#$%&'()''*"+(,-'*". "#&"/'' 0 '*+'1"2/""'345 . 6,5&6(,'7$,"'89::

;<!=>;?*3'3@=>*'A?@@3B3'0>C C>C>0

D/5,+E'>GG%6"-'*&5&6#&6+#'H6&E'A(. G$&"/'>GG%6+5&6(,#

*303*I3!'J>**

!"#$%"&$'() !"#$%!&'$%) !"#$%'&'#*) !"#$%$&$%%)

%1909:33;
<=>?<><?@<

0000000000000000000000000000(AB"
7)6+.)33/.0)*0#$-5:6-+:)6;

!"#!$#"!%" &'()*+,-.,,/'0123,/'4'(+'5,,6,/0,7'85'',9:;4<2;+<12,=)2',"!%% %

>14?<*'3,)(<28,+@',!"#$%#&',(1.+A;5',3'B'*1?'3,CD,,()*+,-./01/2/3)45/6+0'/-50;+,
7#'#8EF;5''G(@;,H@;B;2E,6;@;+4;,I;23@<,J2<B'5(<+D,K1++;D;4L

! "#"$%"& ' "( )#*&+ (*, -. /*$0&1 2$$"0"%

!"#$%&'()''*"+(,-'*". "#&"/'' 0 '*+'1"2/""'345 . 6,5&6(,'7$,"'89::

%1 0 9 :33;
<=>?<><?@<

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7)6+.)33/.0)*0#$-5:6-+:)6;

!"#!$#"!%" &'()*+, - .,,/'0123,/'4'(+'5,, 6,/0,7'85'',9:;4<2;+<12,=)2',"!%% "

>14?<*'3,)(<28,+@',!"#$%#&',(1.+A;5',3'B'*1?'3,CD,,()*+, -./01/2/3)45/6+0'/-50;+,
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!"#$%&"'()

*+(,)(#-%.#,/-0%"#+(1,23,4(0,&)(,52),"''(1"&.(,"352)'&."23,
25,.+(,(6&'"3((#7,*+(#(,$&332.,0(,.)(&.(1,&#,2)"8"3&%,'&)9,
#+((.#7,:)"8"3&%,'&)9,#+((.#,+&;(,0((3,"##-(1,0<,.+(,
=3";()#".<,#(/&)&.(%<7,

%109:33;

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7)6+.)33/.0)*0#$-5:6-+:)6;

!"#$%&'()*+%,-).//')!"#$%#&')+"0.123')('4'&"$'()56))()*+,-./01/2/3)45/6+0'/-502.)
7#'#87823''9+/2):/242,7);2/2.#2)<2,(/%)=,%4'3+%.6)>"..262#?

! "#"$%"&' "()#*&+(*,-./*$0&12$$"0"%

!"#$%&'()''*"+(,-'*"."#&"/''0'*+'1"2/""'345.6,5&6(,'7$,"'89::

0'3'*'';<==3>3'?31@0AB?1B0

C/5,+DE'<F"/5&6(,#'!"#"5/+D'5,-';(.F$&"/'BFF%6+5&6(,#

*303*G3!'HB**

!"#$%"&'(") !"#$%!&'$%)

0'3'*'';<==3>3'?31@0AB?1B0

C/5,+DE'<F"/5&6(,#'!"#"5/+D'5,-';(.F$&"/'BFF%6+5&6(,#

HBH3!'HB**

8:IJ9K

H5F"/'9L H5F"/'9M H5F"/'9N H5F"/':9

%109:33;

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7)6+.)33/.0)*0#$-5:6-+:)6;

!"#!$#"!%" &'()*+,-.,,/'0123,/'4'(+'5,,6,/0,7'85'',9:;4<2;+<12,=)2',"!%% %

>14?<*'3,)(<28,+@',!"#$%#&',(1.+A;5',3'B'*1?'3,CD,,()*+,-./01/2/3)45/6+0'/-50;+,

7#'#8EF;5''G(@;,H@;B;2E,6;@;+4;,I;23@<,J2<B'5(<+D,K1++;D;4L

! "#"$%"& ' "( )#*&+ (*, -. /*$0&1 2$$"0"%

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7)6+.)33/.0)*0#$-5:6-+:)6;

!"#!$#"!%" &'()*+, - .,,/'0123,/'4'(+'5,, 6,/0,7'85'',9:;4<2;+<12,=)2',"!%% "

>14?<*'3,)(<28,+@',!"#$%#&',(1.+A;5',3'B'*1?'3,CD,,()*+, -./01/2/3)45/6+0'/-50;+,
7#'#8EF;5''G(@;,H@;B;2E, 6;@;+4;,I;23@<,J2<B'5(<+D,K1++;D;4L