

PUNJABI UNIVERSITY, PATIALA

(Established under Punjab Act No. 35 of 1961)
CONFIDENTIAL BRANCH

No. _____/Conf.
Dated: _____

The Paper Setter,
Identity No. _____

Dear Sir/Madam,

Set - I ID 29/15
Khusvinder Kumar Principal
Modi College Patiala

It gives me great pleasure to inform you that You have been appointed as paper-setter for setting question paper for the paper entitled, "Mathematics" in English & Punjabi versions Entrance Test for TET Class VIth to VIIIth.. The scheme of the Paper is given below. A copy each of the syllabus and model question paper is enclosed for your reference. The relevant material is enclosed.

You are requested kindly to set the question paper along with key (30 objective type questions, numbering from Sr. No. 91 to 120) and send the same, in a sealed/taped cover, by Speed Post to the undersigned by 19-11-19 positively.

Thanking you,

Yours faithfully,

(Signature)
Asstt. Registrar (Conf.)

DA/As above

Scheme of Papers TIME: 2½ hrs.

	No. of Objective type Questions	MARKS
i) Child Development and Pedagogy (compulsory)	30 (1-30)	30
ii) Language I (Punjabi) (compulsory)	30 (31-60)	30
iii) Language II (English) (compulsory)	30 (61-90)	30
iv) For Mathematics and Science teacher		
✓ a. Mathematics &	30 (91-120)	30
Science or	30 (121-150)	30
b. Social Studies <i>Science</i>	60 (91-150)	<u>60</u>
		150

PUNJABI UNIVERSITY, PATIALA

(Established under Punjab Act No. 35 of 1961)

CONFIDENTIAL BRANCH

No. _____/Conf.

Dated:

The Paper Setter,

Identity No.

Set - ~~8~~ II ID 11/19

Dear Sir/Madam,

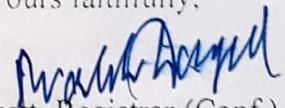
Khuswinder Kumar Principal
Modi College Patiala

It gives me great pleasure to inform you that You have been appointed as paper-setter for setting question paper for the paper entitled, "Mathematics" in English & Punjabi versions Entrance Test for TET Class Ist to Vth.. The scheme of the Paper is given below. A copy each of the syllabus and model question paper is enclosed for your reference. The relevant material is enclosed.

You are requested kindly to set the question paper along with key (30 objective type questions, numbering from Sr. No. 91 to 120) and send the same, in a sealed/taped cover, by Speed Post to the undersigned by 19-11-19 positively.

Thanking you,

Yours faithfully,


Asstt. Registrar (Conf.)

DA/As above

Scheme of Papers TIME: 2½ hrs.

	No. of Objective type Questions	MARKS
i) Child Development and Pedagogy	30 (1-30)	30
ii) Language I (Punjabi)	30 (31-60)	30
iii) Language II (English)	30 (61-90)	30
✓ iv) Mathematics	30 (91-120)	30
v) Environmental Studies	30 (121-150)	30
		150

PANJAB UNIVERSITY

No.PS/ 18117-189 /SS-III/SS-IV

Dated 23/9/19

From

Controller of Examinations,
Panjab University,
Chandigarh
Ph. No. 0172-2541667

To

Kindly Set Two Sets of
Question Papers

Dr. Khushvinder Kumar
Patiala

Dear Sir/Madam,

On the approval of Vice-Chancellor you are offered an assignment of Paper-Setter in the subject of Pedagogy of mathematics.

Paper

Option _____ for the B.Ed - 1st Sem

Exam. to be held in Dec 2019, as well as April 2020 subject to the condition that :

- None of your relations* is appearing in this examination.
*Wife, husband, son, daughter, brother, sister, father, mother, wife's brother, wife's sister, husband's father, husband's sister/brother, nephew, niece, grand-son, grand-daughter, son-in-law, daughter-in-law.
- You have not written or revised any book relating to the paper for use of candidates for the examination. (This does not apply to Honours, Post Graduate, Engineering, medical, Practical examinations as well as Internal Examiners).
- Persons who are authors of a book/s which has/have not been approved by DUI./D.P.I., are not eligible for appointment as Paper-Setter/Examiners.
- You are neither teaching nor have taught this particular course to the class, during one preceding year in the case the duration of the course is of one year and two preceding years in case the duration of the course is of two or more years. (This shall not apply to Internal Examiners).
- You have not attained the age of 65.
- You have taught this subject in an affiliated institution.
- You possess 10 years' teaching experience in affiliated institutions. (The condition of 10 years' teaching experience has, however, been relaxed to 5 years in the case of University Professors.)
- No candidate, residing with you or privately coached by you, is appearing in this examination.
- You have not been disqualified for any negligence on your part for any work assigned to you by this University or provided the period of disqualification is already over.
- You are teaching the paper for which you have been appointed as Internal Examiner (applicable to Internal Examiners only).

If you fulfil the above conditions and are willing to accept the appointment, kindly convey your consent to Deputy/ Assistant Registrar (Secrecy), Panjab University, Chandigarh-160014, immediately on the printed form for the purpose, preferably per return mail. Also please set the question papers and prepare two copies of each question paper (i.e. one Press Copy and other office copy) thereof on the enclosed forms and send the same along with relevant Certificates (by registered post) to the Controller of Examinations, Panjab University, Chandigarh-160014 (BY NAME) so as to reach him latest by IMMEDIATELY in the prescribed envelopes, each duly closed and sealed with adhesive tape properly with your signature stamp/seal.

In case, you do not fulfil any of the conditions mentioned above, kindly to inform this office about the same, by return of post. The material supplied to you should also be returned immediately, so that alternative arrangement may be made without any delay.

The enclosed envelopes must, on no account, be used for any other purposes such as the submission of award lists etc. All other correspondence of confidential nature relating to the questions set or being set, must be despatched by registered post, in sealed double covers, marked 'MOST CONFIDENTIAL' and the outer cover be addressed to the Controller of Examinations, by name.

P.T.O.

HIMACHAL PRADESH UNIVERSITY

"SECRECY BRANCH"

No. PS-650

Secy/HPU/2020

Dated : Shimla-5 the 3-1-2020

From

The Controller of Examinations,
H.P. University, Shimla-171005.

To

Dr. Khushwinder Kumar, ✓
Patiala ✓

Dear Sir/Madam,

I am directed to request you to act as Paper-setter in

B.Ed 1st Semester Examinations
Paper No. - V - ✓, Title "Text Readings and Reflections" ✓
for the Examination to be held in SET-I (June, 2020 ✓) SET-II (Dec, 2020 ✓)

The offer, however, is subject to the fulfilment of the conditions given below :

1. (a) None of your relations is appearing in this examination (wife, husband, son, daughter, sister, wife's brother, wife's sister, brother's son and daughter, first cousin, husband's brother, husband's sister, nephew, grandson, grand daughter and brother).
- (b) You have not written or revised a help book or guess paper Guide relating to the Paper for use of candidates for the examination in which you have been appointed.
- (c) You are neither teaching nor have taught during the preceeding semester/year this particular course to the class.
- (d) You have not crossed the age of 65 years.
- (e) You possess 10 year teaching experience in a recognised institution. The condition of 10 year's teaching experience is however, relaxed to 5 years in the case of University Professors and examiners in law.
- (f) You have not been disqualified by this University for the year for which this appointment pertains.
2. If you do not fulfil any of the conditions mentioned above, the offer may please be considered cancelled and this office be informed about it *by return of post*. The material supplied to you should also be returned.
3. If you accept the offer, kindly send two different sets of question papers and send two copies of each paper in the enclosed forms along with Certificate 'A' *by speed post*, so as to reach the undersigned by name, not later than 30-1-2020 ✓. The Press Copy and the office copy of the question paper must be sealed in separate envelopes enclosed for the purpose.
4. The question paper(s) must invariably be sent in a self addressed duly stamped cloth-lined envelope. All other correspondence of confidential nature relating to the questions set or being set must be *despatched by speed post in sealed double covers*, the inner cover marked "CONFIDENTIAL" and the outer addressed to the undersigned by name.
5. The question paper(s) be supplied in duplicate (press copy and office copy). The questions should be written distinctly in your own handwriting or typed *personally*. Instructions about writing of press and office copies as given in the forms for these copies, *should be carefully followed*.

PANJAB UNIVERSITY

No.PS/ 31790-155 /SS-III/SS-IV

Dated 31/12/19

From

Controller of Examinations,
Panjab University,
Chandigarh
Ph. No. 0172-2541667

To

Dr. Khudiyar Lal Kumar
Patil

Kindly Set Two Sets of
Question Papers

Dear Sir/Madam,

On the approval of Vice-Chancellor, you are offered an assignment of Paper-Setter in the subject
of Pedagogy of Mathematics
Paper _____

Option _____ for the B.Ed. 2nd Sem.

Exam. to be held in April 2020, as well as Sept, 2020 subject to the condition that :

- None of your relations* is appearing in this examination.
*Wife, husband, son, daughter, brother, sister, father, mother, wife's brother, wife's sister, husband's father, husband's sister/brother, nephew, niece, grand-son, grand-daughter, son-in-law, daughter-in-law.
- You have not written or revised any book relating to the paper for use of candidates for the examination. (This does not apply to Honours, Post Graduate, Engineering, medical, Practical examinations as well as Internal Examiners).
- Persons who are authors of a book/s which has/have not been approved by D.U./D.P.I., are not eligible for appointment as Paper-Setter/Examiners.
- You are neither teaching nor have taught this particular course to the class, during one preceding year in the case the duration of the course is of one year and two preceding years in case the duration of the course is of two or more years. (This shall not apply to Internal Examiners).
- You have not attained the age of 65.
- You have taught this subject in an affiliated institution.
- You possess 10 years' teaching experience in affiliated institutions. (The condition of 10 years' teaching experience has, however, been relaxed to 5 years in the case of University Professors.)
- No candidate, residing with you or privately coached by you, is appearing in this examination.
- You have not been disqualified for any negligence on your part for any work assigned to you by this University or provided the period of disqualification is already over.
- You are teaching the paper for which you have been appointed as Internal Examiner (applicable to Internal Examiners only).

If you fulfil the above conditions and are willing to accept the appointment, kindly convey your consent to Deputy/ Assistant Registrar (Secrecy), Panjab University, Chandigarh-160014, immediately on the printed form for the purpose, preferably per return mail. Also please set the question papers and prepare two copies of each question paper (i.e. one Press Copy and other office copy) thereof on the enclosed forms and send the same alongwith relevant Certificates (by registered post) to the Controller of Examinations, Panjab University, Chandigarh-160014 (BY NAME) so as to reach him latest by IMMEDIATELY in the prescribed envelopes, each duly closed and sealed with adhesive tape properly with your signature stamp/seal.

In case, you do not fulfil any of the conditions mentioned above, kindly to inform this office about the same, by return of post. The material supplied to you should also be returned immediately, so that alternative arrangement may be made without any delay.

The enclosed envelopes must, on no account, be used for any other purposes such as the submission of award lists etc. All other correspondence of confidential nature relating to the questions set or being set, must be despatched by registered post, in sealed double covers, marked 'MOST CONFIDENTIAL' and the outer cover be addressed to the Controller of Examinations, by name.

P.T.O.



Guru Nanak Dev University, Amritsar
(Registered)

Telephone Exch. 2258802-09
Tele. No. 2257663-Ext.-3550

No. PS/ 58485 /S

Dated 2/4 2019

Dr Khushvinder Kumar. Pirmal

RTA

Dear Sir/Madam,

I have the honour to invite you to act as Paper-Setter and Examiner, subject to the fulfilment of the conditions given below, in

Paper VI & VII (IV) Teachings of Math

for the B Ed old Syll - 2015

Examination to be held in _____ as well as May 2019

It is requested to :

- (i) Set Two separate Question Papers and send in one lot in the envelopes marked First and Second. Four envelopes (Two for Press Copies and two for Office Copies) are enclosed for the purpose.
- (ii) Set Three separate Question Papers and send in one lot in the envelopes marked First, Second & Third. Six envelopes (Three for Press Copies and three for Office Copies) are enclosed for the purpose.

CONDITIONS

Please ensure that :

- (a) None of your relations is appearing in this examination.
The term 'relations' has been defined as : Wife, Husband, son, daughter, brother, sister, wife's brother and sister, brother's son and daughter, sister's son and daughter, first cousin, husband's brother and sister, grandson, grand-daughter, nephew, niece, spouse.
 - (b) You have not written or revised a book relating to the paper for use of the candidates for the examination in which you have been appointed. (This does not apply to Honours, Post Graduate, Engineering, Practical examinations and Internal Examiners).
 - (c) You are not a member of the B.O.S./Revising Committee.
 - (d) You are teaching in an affiliated institution or in a University Department.
 - (e) You possess not less than 10 years' teaching experience in the subject, in which appointed in recognised institutions. The condition of 10 years' teaching experience has, however, been relaxed to 5 years in the case of University Professors, University Readers and examiners in Agriculture, Architecture, Law, Pharmacy and Engineering etc.
 - (f) You have not been disqualified by this University for the which for which you appointed.
2. If you do not fulfil any of the conditions mentioned above, the offer may please be considered as cancelled and inform this office about it by return of Post. The material supplied to you should be returned. If you fulfil the conditions, kindly communicate your Acceptance per return post immediately, on the printed form sent herewith, in the envelope (S-46/A) enclosed for the purpose. All the columns of the Willingness Form/ Certificate may kindly be filled-in and signed.
 3. Five percent deduction will be made from your honorarium for Teachers' Holiday Home Fund. Rs. 5/- will be deducted as entry fee in the examiners' card.
 4. If you accept this invitation, kindly set the question paper(s) as per Speciman of Press Copy/Office Copy and send two/three copies as the case may be thereof Insured Post so as to reach the Professor Incharge (Exams) by name, not later than June 2019, in the prescribed envelopes.
 5. It is requested that then Question-papers(s) be supplied in duplicate duly TYPED personally.
 6. The Paper-Setters in written paper involving Mathematical and Numerical problems should send the solutions of those problems alongwith the question-papers in the envelopes supplied for the purpose.

HIMACHAL PRADESH UNIVERSITY
"SECURITY BRANCH", SHIMLA-5

P.S. No. 378/PQ/19 /HPU(Security)

Date: 25/02/19

From:

Controller of Examinations
H.P. University, Shimla-171005

To

Dr. Khushwinder Kumar
Patiala.

Dear Sir/Madam,

I am directed to request you to act as Paper-Setter in the following Examination:-

Name of the Examination/Subject/Semester: MA - Education - IVth sem.

Paper No.: EDUC-419 Title: Pedagogy of Mathematics

Year and Session of the Examination: (June 19 SET-I) (Nov. 2019 SET-II)

Time Allowed: 03 (Three) Hours.

Maximum Marks: 70

The Medium of question paper: English/Hindi (both) OR Language concerned.

Kindly set () questions and the candidates are to attempt () questions / OR as per instructions contained in the syllabus.

Kindly note that both the sets of question papers must be different to each other so that these are utilized in different session(s) as to avoid repetition.

Detailed syllabus and other paper setting material are attached herewith.

The offer, however is subject to fulfillment of the conditions given below:

1. (a) None of your relations is appearing in this examination (wife, husband, son, daughter, sister, wife's brother, wife's sister, brother's son and daughter, first cousin, husband's brother, husband's sister, nephew, grandson, grand-daughter and brother.

(b) You have not been disqualified by this University for the year for which this appointment pertains.

2. Kindly send two different sets of question papers and send two copies of each paper in the concerned envelopes along-with Certificate by **Speed/Regd. Post** in cloth lined pre-stamped envelope (S-13) duly sealed/transparent taped so as to reach the undersigned by name **not later than** 30-03-19.

3. The remuneration bills are prepared by the University itself after receipt of the question paper(s). Hence no bill form is being enclosed. The amount of remuneration is **Rs.** 1600/- for two different sets of question papers. Five percent deduction is made from the remuneration bill/s of the Teacher/s towards the Teachers Welfare Fund.

P.T.O.

HIMACHAL PRADESH UNIVERSITY

"SECRECY BRANCH"

No. PS - 612 ✓

Secy/HPU/ 2018 ✓

Dated : Shimla-5 the 31.8.2018

From

The Controller of Examinations,
H.P. University, Shimla-171005.

To

Dr. Khushwinder Kumar ✓
Patiala (Pb) ✓

Dear Sir/Madam,

I am directed to request you to act as Paper-setter in B. Ed IVth Semester ✓
Paper No. XV - ✓, Title "ICT in Teaching Learning Process" ✓
for the June 2019 Examination to be held in SET-I (June 2019) SET-II (June 2020)

The offer, however, is subject to the fulfilment of the conditions given below :

1. (a) None of your relations is appearing in this examination (wife, husband, son, daughter, sister, wife's brother, wife's sister, brother's son and daughter, first cousin, husband's brother, husband's sister, nephew, grandson, grand daughter and brother).
- (b) You have not written or revised a help book or guess paper Guide relating to the Paper for use of candidates for the examination in which you have been appointed.
- (c) You are neither teaching nor have taught during the preceeding semester/year this particular course to the class.
- (d) You have not crossed the age of 65 years.
- (e) You possess 10 year teaching experience in a recognised institution. The condition of 10 year's teaching experience is however, relaxed to 5 years in the case of University Professors and examiners in law.
- (f) You have not been disqualified by this University for the year for which this appointment pertains.
2. If you do not fulfil any of the conditions mentioned above, the offer may please be considered cancelled and this office be informed about it *by return of post*. The material supplied to you should also be returned.
3. If you accept the offer, kindly send two different sets of question papers and send two copies of each paper in the enclosed forms along with Certificate 'A' *by speed post*, so as to reach the undersigned by name, not later than 25.9.2018 ✓. The Press Copy and the office copy of the question paper must be sealed in separate envelopes enclosed for the purpose.
4. The question paper(s) must invariably be sent in a self addressed duly stamped cloth-lined envelope. All other correspondence of confidential nature relating to the questions set or being set must be *despatched by speed post in sealed double covers*, the inner cover marked "CONFIDENTIAL" and the outer addressed to the undersigned by name.
5. The question paper(s) be supplied in duplicate (press copy and office copy). The questions should be written distinctly in your own handwriting or typed *personally*. Instructions about writing of press and office copies as given in the forms for these copies, *should be carefully followed*.

HIMACHAL PRADESH UNIVERSITY

"SECURITY BRANCH", SHIMLA-5

P.S. No. 477/PG/18 /HPU(Security)Date: 16/3/18

From:

Controller of Examinations
H.P. University, Shimla-171005

To

A. Khushwinder Kumar
Patiala

Dear Sir/Madam,

I am directed to request you to act as Paper-Setter in the following Examination:-

Name of the Examination/Subject/Semester: M.A. Education - IInd Sem.Paper No.: EDUC-306- Title: Trends in Indian Education
(Since 1904 onwards.)Year and Session of the Examination: (June 18 SET-I) (Nov. 18 SET-II)Time Allowed: 03 (Three) Hours.Maximum Marks: 70The Medium of question paper: English/Hindi (both) OR Language concerned.

Kindly set () questions and the candidates are to attempt () questions / OR as per instructions contained in the syllabus.

Kindly note that both the sets of question papers must be different to each other so that these are utilized in different session(s) as to avoid repetition.

Detailed syllabus and other paper setting material are attached herewith.

The offer, however is subject to fulfillment of the conditions given below:

1. (a) None of your relations is appearing in this examination (wife, husband, son, daughter, sister, wife's brother, wife's sister, brother's son and daughter, first cousin, husband's brother, husband's sister, nephew, grandson, grand-daughter and brother.

(b) You have not been disqualified by this University for the year for which this appointment pertains.

2. Kindly send two different sets of question papers and send two copies of each paper in the concerned envelopes along-with Certificate by **Speed/Regd. Post** in cloth lined pre-stamped envelope (S-13) duly sealed/transparent taped so as to reach the undersigned by name **not later than** 28/4/18.

3. The remuneration bills are prepared by the University itself after receipt of the question paper(s). Hence no bill form is being enclosed. The amount of remuneration is **Rs.** 1600/- for two different sets of question papers. Five percent deduction is made from the remuneration bill/s of the Teacher/s towards the Teachers Welfare Fund.

P.T.O.



Guru Nanak Dev University, Amritsar
(Registered)

Telephone Exch. 2258802-09
Tele. No. 2257663-Ext.-3551
Secracy Branch : 0183-2257663

No. PS/ 5920 /S

Dated 13/4 2018

Dr Khushvinder Kumar

ATA

Dear Sir/Madam,

I have the honour to invite you to act as Paper-Setter and Examiner, subject to the fulfilment of the conditions given below, in

Paper 2B QACV Measurement & Evaluation

for the BEd old Syll-2015

Examination to be held in _____ as well as May 2018

It is requested to :

- (i) Set Two separate Question Papers and send in one lot in the envelopes marked First and Second. Four envelopes (Two for Press Copies and two for Office Copies) are enclosed for the purpose.
- (ii) Set Three separate Question Papers and send in one lot in the envelopes marked First, Second & Thrid. Six envelopes (Three for Press Copies and three for Office Copies) are enclosed for the purpose.

CONDITIONS

Please ensure that :

- (a) None of your relations is appearing in this examination.
The term 'relations' has been defined as : Wife, Husband, son, daughter, brother, sister, wife's brother and sister, brother's son and daughter, sister's son and daughter, first cousin, husband's brother and sister, grandson, grand-daughter, nephew, niece, spouse.
 - (b) You have not written or revised a book relating to the paper for use of the candidates for the examination in which you have been appointed. (This does not apply to Honours, Post Graduate, Engineering, Practical examinations and Internal Examiners).
 - (c) You are not a member of the B.O.S./Revising Committee.
 - (d) You are teaching in an affiliated institution or in a University Department.
 - (e) **You possess not less than 10 years' teaching experience in the subject, in which appointed in recognised institutions.** The condition of 10 years' teaching experience has, however, been relaxed to 5 years in the case of University Professors, University Readers and examiners in Agriculture, Architecture, Law, Pharmacy and Engineering etc.
 - (f) You have not been disqualified by this University for the which for which you appointed.
2. If you do not fulfil any of the conditions mentioned above, the offer may please be considered as cancelled and inform this office about it **by return of Post. The material supplied to you should be returned.** If you fulfil the conditions, kindly communicate your Acceptance per return post **immediately**, on the printed form sent herewith, in the envelope (S-46/A) enclosed for the purpose. All the columns of the Willingness Form/ Certificate may kindly be filled-in and signed.
 3. Five percent deduction will be made from your honorarium for Teachers' Holiday Home Fund. Rs. 5/- will be deducted as entry fee in the examiners' card.
 4. If you accept this invitation, kindly set the question paper(s) as per Speciman of Press Copy/Office Copy and send two/three copies as the case may be thereof **Insured Post** so as to reach the Professor Incharge (Exams) by name, not later than immediately 2018, in the prescribed envelopes.
 5. **It is requested that then Question-papers(s) be supplied in duplicate duly TYPED personally.**
 6. The Paper-Setters in written paper involving Mathematical and Numerical problems should send the solutions of those problems alongwith the question-papers in the envelopes supplied for the purpose.

Date of Exams 28-09-18

From

The Controller of Examinations,
Panjab University,
Chandigarh-160014

9467

To

Dr. Khushwinder Kumar Chandigarh.
Id. No. 11415

Name of Examination B.Ed. Special Education (MR)
Subject/Paper V: Identification & Assessment
of Persons with Mental Retardation

Sir/Madam,

I am sending herewith (1) answer-books for evaluation as detailed below. These should immediately be compared with the Challan. The discrepancy, if any, must be reported on the day of the receipt to the following :

- (i) Deputy Registrar (Secrecy) Ph.: 0172-2541667
(ii) Office Supdt. (Secrecy) Ph.: 0172-2534884

TIME ALLOWED FOR MARKING OF SCRIPTS: One Day

Code Nos. :

3571-3600

No. of
Answer-books

(1)

Your co-operation is solicited for which I shall be grateful.

Yours faithfully,

Office Superintendent (Secrecy)
for Controller of Exams.

Encl.: (i) Subject Code 9467
(ii) Postal Stamp of Rs.

N.B. :- Please return the evaluated answer-books with your signature at Part 'B & C' to Deputy Registrar (Secrecy), Panjab University, Chandigarh-160014. The evaluated answer books may please be arranged Code wise in the ascending order. This challan has to be placed securely above the bundle of answer-books.



Guru Nanak Dev University, Amritsar

(Registered)

No. PS/ 5810 /S
Dated 2/3/2016

Dr. Khushvinder Kumar
Multani Mah. Modi College
Ratala,

Dear Sir/Madam,

I have the honour to invite you to act as Paper-Setter and Examiner, subject to the fulfilment of the conditions given below, in

Paper off CIV Teaching of math
for the 3rd old syll-2015 RealPlea Candidates
Examination to be held in _____ as well as may 2016

It is requested to :

- (i) Set Two separate Question Papers and send in one lot in the envelopes marked First and Second. Four envelopes (Two for Press Copies and two for Office Copies) are enclosed for the purpose.
- (ii) Set Three separate Question Papers and send in one lot in the envelopes marked First, Second & Third. Six envelopes (Three for Press Copies and three for Office Copies) are enclosed for the purpose.

CONDITIONS

Please ensure that :

- (a) None of your relations is appearing in this examination.
The term 'relations' has been defined as : Wife, Husband, son, daughter, brother, sister, wife's brother and sister, brother's son and daughter, sister's son and daughter, first cousin, husband's brother and sister, grandson, grand-daughter, nephew, niece, spouse.
 - (b) You have not written or revised a book relating to the paper for use of the candidates for the examination in which you have been appointed. (This does not apply to Honours, Post Graduate, Engineering, Practical examinations and Internal Examiners).
 - (c) You are not a member of the B.O.S./Revising Committee.
 - (d) You are teaching in an affiliated institution or in a University Department.
 - (e) **You possess not less than 10 years' teaching experience in the subject, in which appointed in recognised institutions.** The condition of 10 years' teaching experience has, however, been relaxed to 5 years in the case of University Professors, University Readers and examiners in Agriculture, Architecture, Law, Pharmacy and Engineering etc.
 - (f) You have not been disqualified by this University for the which for which you appointed.
2. If you do not fulfil any of the conditions mentioned above, the offer may please be considered as cancelled and inform this office about it **by return of Post. The material supplied to you should be returned.** If you fulfil the conditions, kindly communicate your Acceptance per return post **immediately**, on the printed form sent herewith, in the envelope (S-46/A) enclosed for the purpose. All the columns of the Willingness Form/ Certificate may kindly be filled-in and signed.
 3. Five percent deduction will be made from your honorarium for Teachers' Holiday Home Fund. Rs. 5/- will be deducted as entry fee in the examiners' card.
 4. If you accept this invitation, kindly set the question paper(s) as per Speciman of Press Copy/Office Copy and send two/three copies as the case may be thereof **Insured Post** so as to reach the Professor Incharge (Exams) by name, not later than immediate 2016 in the prescribed envelopes.
 5. **It is requested that then Question-papers(s) be supplied in duplicate duly TYPED personally.**
 6. The Paper-Setters in written paper involving Mathematical and Numerical problems should send the solutions of those problems alongwith the question-papers in the envelopes supplied for the purpose.



Guru Nanak Dev University, Amritsar

(Registered)

No. PS/ 5795 /S

Dated 2/3/ 2016

Dr. Keshvinder Kumar, Principal,
Mulani Mal Modi College
Pattala.

Dear Sir/Madam,

I have the honour to invite you to act as Paper-Setter and Examiner, subject to the fulfilment of the conditions given below, in

Paper UPP(V) Measurement & Valuation
for the Bed (old Syll 2015) Reappear Candidates
Examination to be held in _____ as well as may 2016

It is requested to :

- (i) Set Two separate Question Papers and send in one lot in the envelopes marked First and Second. Four envelopes (Two for Press Copies and two for Office Copies) are enclosed for the purpose.
- (ii) Set Three separate Question Papers and send in one lot in the envelopes marked First, Second & Thrid. Six envelopes (Three for Press Copies and three for Office Copies) are enclosed for the purpose.

CONDITIONS

Please ensure that :

- (a) None of your relations is appearing in this examination.
The term 'relations' has been defined as : Wife, Husband, son, daughter, brother, sister, wife's brother and sister, brother's son and daughter, sister's son and daughter, first cousin, husband's brother and sister, grandson, grand-daughter, nephew, niece, spouse.
- (b) You have not written or revised a book relating to the paper for use of the candidates for the examination in which you have been appointed. (This does not apply to Honours, Post Graduate, Engineering, Practical examinations and Internal Examiners).
- (c) You are not a member of the B.O.S./Revising Committee.
- (d) You are teaching in an affiliated institution or in a University Department.
- (e) **You possess not less than 10 years' teaching experience in the subject, in which appointed in recognised institutions.** The condition of 10 years' teaching experience has, however, been relaxed to 5 years in the case of University Professors, University Readers and examiners in Agriculture, Architecture, Law, Pharmacy and Engineering etc.
- (f) You have not been disqualified by this University for the which for which you appointed.
2. If you do not fulfil any of the conditions mentioned above, the offer may please be considered as cancelled and inform this office about it **by return of Post. The material supplied to you should be returned.** If you fulfil the conditions, kindly communicate your Acceptance per return post **immediately**, on the printed form sent herewith, in the envelope (S-46/A) enclosed for the purpose. All the columns of the Willingness Form/ Certificate may kindly be filled-in and signed.
3. Five percent deduction will be made from your honorarium for Teachers' Holiday Home Fund. Rs. 5/- will be deducted as entry fee in the examiners' card.
4. If you accept this invitation, kindly set the question paper(s) as per Speciman of Press Copy/Office Copy and send two/three copies as the case may be thereof **Insured Post** so as to reach the Professor Incharge (Exams) by name, not later than immediately 2016, in the prescribed envelopes.
5. **It is requested that then Question-papers(s) be supplied in duplicate duly TYPED personally.**
6. The Paper-Setters in written paper involving Mathematical and Numerical problems should send the solutions of those problems alongwith the question-papers in the envelopes supplied for the purpose.

RL BAY
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Co

**KINDLY SET 02 DIFFERENT SETS
OF QUESTION PAPER DULY TYPED**
Central University of Jammu

REGISTERED

Date: 06/04/2016

CONFIDENTIAL

No. CUJ/Conf/2016/Edu2C003/I/
511

DR. KHUSHWINDER
PRINCIPAL
M.M. MOAHI COLLEGE
PATIALA

Paper Setting Fee is
Rs. 2000/- Per Paper

Central University of Jammu
Bagla (Rahya-Suchani), District-Samba
Jammu, J&K, Pin-181143

Subject: Paper-Setting for Master's Degree Programme.

✓
Sir/Madam

It is our privilege to request you to kindly act as Paper-Setter in the Subject of STATISTICS
IN EDUCATION Course No. PGEDU2C003T Semester IInd Examination,
MAY, 2016. Kindly set **02 different sets** of Question papers on the material sent herewith as per
enclosed syllabus and return the same to the Controller of Examinations, Central University of
Jammu in the enclosed envelope.

*It is pertinent to mention here what the University does not have a system of moderation of
question papers.*

Key to the objective type questions, detailed scheme for evaluation of the descriptive
questions and solutions to the numerical questions (if any) shall be prepared and packed in the
manner given in the General Instructions.

The remuneration bill complete in all respects be sent to the undersigned in a separate cover to
expedite payment in time.

Please keep this assignment strictly CONFIDENTIAL.

The identity ^{name} ~~mark~~ allotted to you as Paper Setter is 06/EAU2C003/16/I and this may please be
quoted in all the correspondence relating to this paper.

*You are requested to kindly send the question papers by or
before 25th April, 2016.*

Thanking you,

Your faithfully,

[Signature]

CONTROLLER OF EXAMINATIONS
[Signature]

6/4/16

Encl.: As above

PANJAB UNIVERSITY

No.PS/ 13764-767 /~~SS~~III/SS-IV

Dated 18/04/16

From

Controller of Examinations,
Panjab University,
Chandigarh

To

Kindly Set two Sets of
Question Papers

Dr. Khushvinder Kumar

Patiala

Dear Sir/Madam,

On the approval of Vice-Chancellor you are offered an assignment of Paper-Setter/Examiner in the subject of Teaching of Mathematics

Paper - VI & VII

Option (x) for the B.Ed. 2nd Sem.

Exam. to be held in April 2016, as well as Sept. 2016 subject to the condition that :

- (a) None of your relations* is appearing in this examination.
*Wife, husband, son, daughter, brother, sister, father, mother, wife's brother, wife's sister, husband's father, husband's sister/brother, nephew, niece, grand-son, grand-daughter, son-in-law, daughter-in-law.
- (b) You have not written or revised any book relating to the paper for use of candidates for the examination. (This does not apply to Honours, Post Graduate, Engineering, medical, Practical examinations as well as Internal Examiners).
- (c) Persons who are authors of a book/s which has/have not been approved by DU1/D.P.I., are not eligible for appointment as Paper-Setter/Examiners.
- (d) You are neither teaching nor have taught this particular course to the class, during one preceding year in the case the duration of the course is of one year and two preceding years in case the duration of the course is of two or more years. (This shall not apply to Internal Examiners).
- (e) You have not attained the age of 65.
- (f) You have taught this subject in an affiliated institution.
- (g) You possess 10 years' teaching experience in affiliated institutions. (The condition of 10 years' teaching experience has, however, been relaxed to 5 years in the case of University Professors.)
- (h) No candidate, residing with you or privately coached by you, is appearing in this examination.
- (i) You have not been disqualified for any negligence on your part for any work assigned to you by this University or provided the period of disqualification is already over.
- (j) You are teaching the paper for which you have been appointed as Internal Examiner (applicable to Internal Examiners only).

If you fulfil the above conditions and are willing to accept the appointment, kindly convey your consent to Deputy/ Assistant Registrar (Secrecy), Panjab University, Chandigarh-160014, immediately on the printed form for the purpose, preferably per return mail. Also please set the question papers and prepare two copies of each question paper (i.e. one Press Copy and other office copy) thereof on the enclosed forms and send the same alongwith relevant Certificates (by registered post) to the Controller of Examinations, Panjab University, Chandigarh-160014 (BY NAME) so as to reach him latest by IMMEDIATELY in the prescribed envelopes, each duly closed and sealed with adhesive tape properly with your signature stamp/seal.

In case, you do not fulfil any of the conditions mentioned above, kindly to inform this office about the same, by return of post. The material supplied to you should also be returned immediately, so that alternative arrangement may be made without any delay.

The enclosed envelopes must, on no account, be used for any other purposes such as the submission of award lists etc. All other correspondence of confidential nature relating to the questions set or being set, must be despatched by registered post, in sealed double covers, marked 'MOST CONFIDENTIAL' and the outer cover be addressed to the Controller of Examinations, by name.

P.T.O.

Most Urgent

S-I

CONFIDENTIAL/ SPEED/REGD. POST
Tel. No. 0177-2831269
2833580, 2833581

HIMACHAL PRADESH UNIVERSITY
"SECURITY BRANCH", SHIMLA-5

P.S. No. 375/Pg/16 - /HPU(Security)

Date: 22/03/16

From:

Controller of Examinations
H.P. University, Shimla-171005

To

Dr. Khushwinder Kumar,
Patiala

Dear Sir/Madam,

I am directed to request you to act as Paper-Setter in the following Examination:-

Name of the Examination/Subject/Semester: MA-Education (ICDEOL) - II - Sem.

Paper No.: EDUC-306 - Title: Trends in Indian Education
(Since 1904 onwards)

Year and Session of the Examination: (June, 2016 SET-I) (Nov, 2016 SET-II)

Time Allowed: 03 (Three) Hours.

Maximum Marks: 70

The **Medium** of question paper: English/Hindi (both) **OR** Language concerned.

Kindly set () questions and the candidates are to attempt () questions / **OR** as per instructions contained in the syllabus.

Kindly note that both the sets of question papers must be different to each other so that these are utilized in different session(s) as to avoid repetition.

Detailed syllabus and other paper setting material are attached herewith.

The offer, however is subject to fulfillment of the conditions given below:

1. (a) None of your relations is appearing in this examination (wife, husband, son, daughter, sister, wife's brother, wife's sister, brother's son and daughter, first cousin, husband's brother, husband's sister, nephew, grandson, grand-daughter and brother.

(b) You have not been disqualified by this University for the year for which this appointment pertains.

2. Kindly send two different sets of question papers and send two copies of each paper in the concerned envelopes along-with Certificate by **Speed/Regd. Post** in cloth lined pre-stamped envelope (**S-13**) **duly sealed/transparent taped** so as to reach the undersigned by name **not later than** 23/04/16.

3. The remuneration bills are prepared by the University itself after receipt of the question paper(s). Hence no bill form is being enclosed. The amount of remuneration is **Rs. 1600/-** for two different sets of question papers. Five percent deduction is made from the remuneration bill/s of the Teacher/s towards the Teachers Welfare Fund.

P.T.O.

HIMACHAL PRADESH UNIVERSITY

"SECURITY BRANCH"

No. PS - 415

Secy/HPU/ 2015-16

Dated : Shimla-5 the 8-9-2015

From

The Controller of Examinations,
H.P. University, Shimla-171005.

To

Dr. Khushwinder Kumar
Patiala

Dear Sir/Madam,

I am directed to request you to act as Paper-setter in B.Ed 1st Semester (New Syllabus)
Paper No. -V-, Title Text Reading And Reflections
for the 1st Semester Examination to be held in SET-I (Nov, 2015) SET-II (May, 2016)

The offer, however, is subject to the fulfilment of the conditions given below :

1. (a) None of your relations is appearing in this examination (wife, husband, son, daughter, sister, wife's brother, wife's sister, brother's son and daughter, first cousin, husband's brother, husband's sister, nephew, grandson, grand daughter and brother).
- (b) You have not written or revised a help book or guess paper Guide relating to the Paper for use of candidates for the examination in which you have been appointed.
- (c) You are neither teaching nor have taught during the preceeding semester/year this particular course to the class.
- (d) You have not crossed the age of 65 years.
- (e) You possess 10 year teaching experience in a recognised institution. The condition of 10 year's teaching experience is however, relaxed to 5 years in the case of University Professors and examiners in law.
- (f) You have not been disqualified by this University for the year for which this appointment pertains.
2. If you do not fulfil any of the conditions mentioned above, the offer may please be considered cancelled and this office be informed about it *by return of post*. The material supplied to you should also be returned.
3. If you accept the offer, kindly send two different sets of question papers and send two copies of each paper in the enclosed forms along with Certificate 'A' *by speed post*, so as to reach the undersigned by name, not later than 3-10-2015. The Press Copy and the office copy of the question paper must be sealed in separate envelopes enclosed for the purpose.
4. The question paper(s) must invariably be sent in a self addressed duly stamped cloth-lined envelope. All other correspondence of confidential nature relating to the questions set or being set must be *despatched by speed post in sealed double covers*, the inner cover marked "CONFIDENTIAL" and the outer addressed to the undersigned by name.
5. The question paper(s) be supplied in duplicate (press copy and office copy). The questions should be written distinctly in your own handwriting or typed *personally*. Instructions about writing of press and office copies as given in the forms for these copies, *should be carefully followed*.

PANJAB UNIVERSITY, CHANDIGARH

Date of Exams 02/01/15

From

The Controller of Examinations,
Panjab University,
Chandigarh-160014

To

8303

Dr. Khushvinder Kumar Patiala	
Id. No.	114181D

Name of Examination B. Ed. Spl. Edu. (Mental Retardation) - I sem
Subject/Paper P-V [opt (1)] Teaching of Mathematics

Sir/Madam,

I am sending herewith (7) answer-books for evaluation as detailed below. These should immediately be compared with the Challan. The discrepancy, if any, must be reported on the day of the receipt to the following :

- (i) Deputy Registrar (Secrecy) Ph. : 0172-2541667
(ii) Office Supdt. (Secrecy) Ph. : 0172-2534884

TIME ALLOWED FOR MARKING OF SCRIPTS: One Two days

Code Nos. : 02431-62460

No. of
Answer-books

(07) (07)

Your co-operation is solicited for which I shall be grateful.

Yours faithfully,

Harpreet Singh
Office Superintendent (Secrecy)
for Controller of Exams.

Encl. : (i) Subject Code 8303

(ii) Postal Stamp of Rs.

N.B. :- Please return the evaluated answer-books with your signature at Part 'B' & 'C' to Deputy Registrar (Secrecy), Panjab University, Chandigarh-160014. The evaluated answer books may please be arranged Code wise in the ascending order. This challan has to be placed securely above the bundle of answer-books.

PANJAB UNIVERSITY

No.PS/ 934-1013 /SS-III/SS-IV

Dated 5-1-15

From

Controller of Examinations,
Panjab University,
Chandigarh

To

Kindly Set two Sets of
Question Papers

Dr. Khushbir Kumar
Patiala

Dear Sir/Madam,

On the approval of Vice-Chancellor you are offered an assignment of Paper-Setter in the subject
of Teaching of Mathematics

Paper VI & VII

Option (X) for the 13 Ed. 2nd sem.

Exam. to be held in April, 2015, as well as Sept., 2015 subject to the condition that :

- (a) None of your relations* is appearing in this examination.
*Wife, husband, son, daughter, brother, sister, father, mother, wife's brother, wife's sister, husband's father, husband's sister/brother, nephew, niece, grand-son, grand-daughter, son-in-law, daughter-in-law.
- (b) You have not written or revised any book relating to the paper for use of candidates for the examination. (This does not apply to Honours, Post Graduate, Engineering, medical, Practical examinations as well as Internal Examiners).
- (c) Persons who are authors of a book/s which has/have not been approved by DUI./D.P.I., are not eligible for appointment as Paper-Setter/Examiners.
- (d) You are neither teaching nor have taught this particular course to the class, during one preceding year in the case the duration of the course is of one year and two preceding years in case the duration of the course is of two or more years. (This shall not apply to Internal Examiners).
- (e) You have not attained the age of 65.
- (f) You have taught this subject in an affiliated institution.
- (g) You possess 10 years' teaching experience in affiliated institutions. (The condition of 10 years' teaching experience has, however, been relaxed to 5 years in the case of University Professors.)
- (h) No candidate, residing with you or privately coached by you, is appearing in this examination.
- (i) You have not been disqualified for any negligence on your part for any work assigned to you by this University or provided the period of disqualification is already over.
- (j) You are teaching the paper for which you have been appointed as Internal Examiner (applicable to Internal Examiners only).

If you fulfil the above conditions and are willing to accept the appointment, kindly convey your consent to Deputy/ Assistant Registrar (Secrecy), Panjab University, Chandigarh-160014, immediately on the printed form for the purpose, preferably per return mail. Also please set the question papers and prepare two copies of each question paper (i.e. one Press Copy and other office copy) thereof on the enclosed forms and send the same alongwith relevant Certificates (by registered post) to the Controller of Examinations, Panjab University, Chandigarh-160014 (BY NAME) so as to reach him latest by IMMEDIATELY in the prescribed envelopes, each duly closed and sealed with adhesive tape properly with your signature stamp/seal.

In case, you do not fulfil any of the conditions mentioned above, kindly to inform this office about the same, by return of post. The material supplied to you should also be returned immediately, so that alternative arrangement may be made without any delay.

The enclosed envelopes must, on no account, be used for any other purposes such as the submission of award lists etc. All other correspondence of confidential nature relating to the questions set or being set, must be despatched by registered post, in sealed double covers, marked 'MOST CONFIDENTIAL' and the outer cover be addressed to the Controller of Examinations, by name.

P.T.O.

(44)

PANJAB UNIVERSITY, CHANDIGARH

Syllabus and course of reading in the subject Teaching of Mathematics

Paper — VI & VII

For B. Ed. 2nd Semester.

Examination April, 2015.

Maximum Marks 40

Time Allowed 3 Hours

IMPORTANT NOTE: The paper setter is requested to set the question papers strictly According to the syllabus given below. He is further requested to supply the Instructions for the evaluators in a separate envelope.

1.4 For the setting of Theory Question papers, the following rules should be observed for both semesters :

- (i) In paper I, II and III, 80 marks are for external theory (40 in each semester for said subjects), 10 marks are for Internal Practical work (5 marks are for each semester in said subjects), 10 marks are for continuous Internal evaluation (5 marks are for each semester for said subjects). In paper IV (Part A in First Semester) and Paper IV (Part B) in Second semester, 40 marks are for External Theory, 5 marks are for Internal Practical work and 5 marks are for continuous internal evaluation. In paper V (Part A in First semester), 32 marks are for external Theory, 16 marks are for External Practical, 6 marks for Internal practical work and 6 marks for continuous internal evaluation. In Paper V (Part B) in Second semester), 32 marks are for external theory, 4 marks for Internal Practical work and, 4 marks for continuous internal evaluation. Two teaching methodology papers VI & VII opted by the candidate will be of 100 marks (50 in each semester). 80 marks i.e 40 marks in each semester for both Teaching subject for External theory, 10 marks (5 marks in each semester) for internal preparatory file and 10 marks (5 marks in each semester) for continuous internal evaluation)
- (ii) The papers shall be set by external examiner; each paper will be of two hours duration. In papers I, II and III (in both semesters) the Question paper shall be divided into four parts. First three parts will pertain three units of the course content. Two questions will be set from each unit of the course & candidates will be required to attempt one question from each part. Each question will carry 10 marks. Fourth part of the Question paper will be compulsory. It will consist of two short answer types' questions and these questions will cover the entire course. Each short answer type question will be of 5 marks and answer should not exceed 90 words. Each theory paper in both semester will be of $10 \times 3 = 30 + 5 \times 2 = 10$ total 40 marks (5marks are for continuous internal evaluation done on the basis of written assignments, snap tests, participation in discussions held in the class, term papers, attendance etc in both semesters. $5 \times 2 = 10$. 5 marks are allotted for internal evaluation of the practicals work in each paper for both semester. Total marks allotted to each paper in both semester are 100 (40+5+5 and 40+5+5)
- (iii) Paper IV shall be divided into two semesters -paper IV A - (PART A, School Management, in Sem-I) and paper IV B- (PART B, Guidance and Counselling, in Sem.-II). In paper IV - (PART A) the question paper shall be divided into four parts. First three parts will pertain three units of the course content, two questions will be set from each unit of the course, in each part of the question paper. The candidate will be required to attempt one question from each part. Each question will carry 10 marks. Fourth part of the question paper will be compulsory. It will consist of two short answer type questions and these questions will cover the entire course content uniformly. Each short answer type question will be of five marks and the answer should not exceed 90 words. This theory paper will be of $(10 \times 3) = 30 + (5 \times 2 = 10) = 40$ marks. In paper IV- (PART B) the question paper shall be divided into three parts. First two parts will pertain two units of the course content; two questions will be set from each unit of the course, in each part of the question paper. The candidate will be required to attempt one question from each part. Each question will carry 10 marks. Third part of the question paper will be compulsory. It will consist of four short answer type questions two from each unit and these questions will cover the entire course content uniformly. Each short type question will be of five marks and the answer should not exceed 90 words. This theory paper will be of $(10 \times 2) = 20 + (5 \times 4) = 20 = 40$ marks. In paper IV - (PART A) and IV - (PART B) 5 marks are for continuous internal evaluation done on the basis of written assignments, snap tests, participation in the discussions held in the class, term papers, attendance etc. 5 marks are allotted for the internal evaluation of the practical work. Total marks allotted to paper IV- PART A and IV - PART B are 50 each. For external theory examination there shall be two hours for each paper i.e IV (Part -A & Part -B)

- 2 -

- (iv) Paper V shall be divided into two parts – Paper V - PART A (ICT Skill, in Sem.-I) and Paper V - PART B (for one subject opted by the candidate from the list given, in Sem.-II). In paper V - PART A the question paper shall be divided into four parts. First three parts will pertain three units of the course content, two questions will be set from each unit of the course, in each part of the question paper. The candidate will be required to attempt one question from each part. Each question will carry 8 marks. Fourth part of the question paper will be compulsory. It will consist of two short answer type questions and these questions will cover the entire course content uniformly. Each short type question will be of four marks and the answer should not exceed 75 words. This theory paper will be of $(8 \times 3 = 24) + (4 \times 2 = 8) = 32$ marks. In paper V - PART B, the question paper shall be divided into three parts. First two parts will pertain two units of the course content, two questions will be set from each unit of the course, in each part of the question paper. The candidate will be required to attempt one question from each part. Each question will carry 8 marks. Third part of the question paper will be compulsory. It will consist of four short answer type questions and two from each unit these questions will cover the entire course content uniformly. Each short answer type question will be of four marks and the answer should not exceed 75 words. This theory paper will be of $(8 \times 2 = 16) + (4 \times 4 = 16) = 32$ marks. For paper V -PART A, 28 marks are allotted for practical work out of which 16 marks are for external (Practical), 6 marks are for (internal) practical work and 6 marks for continuous internal evaluation. Total marks for paper V - PART A = $32 + (16 + 6 + 6) = 60$, in Sem.-I. In paper V - PART B, 4 marks are for (internal) practical work and 4 marks are allotted to continuous internal evaluation. Total marks for paper V- PART B = $32 + (4 + 4) = 40$, in Sem.-II. For external theory examination there shall be two hours for each paper i.e. V (Part -A & Part -B)
- (v) Internal evaluation and Internal practical work in the above papers shall be done by the committee consisting of at least three members of faculty (of the particular subject) with the principal as moderator.
- (vi) Papers IV- A and IV- B as well as for Papers V- A and V-B will be in separate semesters.
- (vii) Papers VI and VII will comprise of Methodology of Teaching of any two teaching subjects in which the scheme of marks will be as follows : $2 \times \{2 \times (40+5+5=50)\} = 200$ marks,
- (viii) Paper VI and VII will be of 50 marks in both semesters out of which 40 marks are for external theory in both semester, 5 marks are for internal practical work. Each question paper shall be divided into four parts in each semester, first three parts will pertain three units of the course content in each semester. Two questions will be set from each unit of the course in each part of the question paper. The candidates will be required to attempt one question from each part in each semester. Each question will carry 10 marks in each semester. Fourth part of the question paper will be compulsory. It will consist of two short answer type questions from IV Unit of the course content in each semester. Each short answer type question will be of 5 marks and answer should not exceed 90 words in both semesters. This theory paper will be in both semester $2 \times (10 \times 3) + (5 \times 2) = 80$ marks. 10 marks will be in both semester, 5 marks are for continuous internal evaluation in each semester will be done on the basis of written assignment (01), snap tests, participation in the discussions held in class room, term paper attendance etc. Total marks allotted to each paper are 100.

- 3 -

- 3 -

SEMESTER - II

TEACHING OF MATHEMATICS

Max Marks	: 50
External Theory	: 40
Internal Evaluation	: 05
Internal Practical	: 05

Objectives: -Upon completion of the course, the student-teachers will have.

- Understanding of nature of mathematics.
- Improve competencies in secondary level mathematics.
- Understanding preparation and use of diagnostic test and organize remedial teachings.
- Application of appropriate evaluation techniques in mathematics.

UNIT-I

- (a) Principle and rationale of Curriculum development.
- (b) Organization of syllabi both logically and psychologically according to the age group of children.
- (c) Recent curriculum reforms at National Level/State Level & their critical appraisal.
- (d) Pedagogical analysis of different topics of mathematics

UNIT-II

- a) The Van-Hiele Levels of Geometric thinking.
- b) Nature & kinds of proof: direct proof, mathematical induction, proof by contradiction, disproof by counter example.
- c) Learning Resources in Mathematics:
 - i. Text-book quality (academic and technical).
 - ii. Mathematics Laboratory-planning & organizing lab activities.

UNIT-III

- a) Fixing devices: Oral, written, drill work, questioning, supervised study & Mathematical Modeling.
- b) (a) Diagnosing basic causes for difficulties in mathematics learning.
(b) Planning remedial teaching strategies based on the perceived causes for difficulties in learning, implementing and evaluating the strategies.
- c) Construction of appropriate test items for assessing product (learning outcomes) and developmental (thinking skills) out comes.

UNIT-IV

- (a) Geometry:
 - Basic geometrical ideas(2-D & 3-D shapes)
 - Symmetry: (reflection)
 - Constructions (Using straight edge scale, protractor, compasses)
 - Quadrilaterals
 - Menstruations (circle, sphere, cone, cylinder, triangles)
 - Data handing, statistics

SESSIONAL WORK

- (a) Planning and implementation of instructional strategies to remedy the diagnosed learning difficulties.
- (b) Construction of diagnostic test/achievement test (unit/terminal) in mathematics

- 4 -

4

BOOKS SUGGESTED:

- Anthony, Glende and Walshaw, Margaret (2009). *Effective Pedagogy in Mathematics: Gonnet Imprimeur, 01300 Belley, France.*
- Arora, S.K. (2000). *How to Teach Mathematics.* New Delhi: Sterling Publishers Pvt. Ltd.
- Gakhar, S.C. and Jaidka, M.L. (2003). *Teaching of Mathematics.* Panipat: M/s N.M. Publishers.
- Kumar, Khushwinder and Kaur, Jaspreet (2012). *Learning Mathematics- A Lab Experience.* Gurur Sar Sadhar : GBD Publishers.
- Kumar, Sudhir and Ratan, P.N. (2003). *Teaching of Mathematics.* New Delhi: Anmol Publication Pvt. Ltd.
- Mangal, S. K. (2007). *Teaching of Mathematics.* New Delhi: Arya Book Depot.
- N.C.E.R.T. *Text Books 6th to 10th Standard.*
- National Focus on Teaching of Mathematics.* Published at the Publication Department by the Secretary, National Council of Educational Research and Training, Sri Aurobindo Marg, New Delhi 110016 and printed at Bengal Offset Works, 335, Khajoor Road, Karol Bagh, New Delhi 110005, NCERT, 2006.
- Shankaran & Gupta, H. N. (1984). *Content-cum-Methodology of Teaching Mathematics.* New Delhi: NCERT
- Siddiqui, Hasan. Mujibul (2005). *Teaching of Mathematics:* New Delhi: A.P.H Publishing co-operation.
- Sidhu, K.S. (1998). *Teaching of Mathematics.* New Delhi: Sterling Publication Pvt. Ltd.
- Hukum, Avtar Ram and Singh, V.P. (2005). *A Handbook for Designing Mathematics Laboratory in Schools.* New Delhi: NCERT.
- Thomas, A. S. (1993). *Mathematics for Elementary Teachers (An Interactive Approach).* Florida: HBJ Publishers
- Websites :**
- <http://www.ncert.nic.in>
- <http://rse.sagepub.com>
- <http://www.edfac.unimelb.ed.ac>
- <http://www.eric.ed.gov>
- <http://www.merga.net.au>
- <http://ling.springerimages.com>
- <http://www.ibe.unesco.org>
- <http://www.ibe.unesco.org>

Office Superintendent (Secretary)
Panjab University
Chandigarh-160014



Guru Nanak Dev University, Amritsar

(Registered)

S-11
Telephone Exch. 2258802-09
Tele. No. 2257663-Ext.-3550

No. PS/ 5470 /S

Dated 7/11/2015

Dr. Kuswinder Kumar, Principal,
Multeni Mal Modi College,
Patiala.

Dear Sir/Madam,

I have the honour to invite you to act as Paper-Setter and Examiner, subject to the fulfilment of the conditions given below, in _____

Paper B3C D)(V) Measurement & Evaluation
for the Bed

Examination to be held in _____ as well as March 2015

It is requested to :

- (i) Set Two separate Question Papers and send in one lot in the envelopes marked First and Second. Four envelopes (Two for Press Copies and two for Office Copies) are enclosed for the purpose.
- (ii) Set Three separate Question Papers and send in one lot in the envelopes marked First, Second & Thrid. Six envelopes (Three for Press Copies and three for Office Copies) are enclosed for the purpose.

CONDITIONS

Please ensure that :

- (a) None of your relations is appearing in this examination.
The term 'relations' has been defined as : Wife, Husband, son, daughter, brother, sister, wife's brother and sister, brother's son and daughter, sister's son and daughter, first cousin, husband's brother and sister, grandson, grand-daughter, nephew, niece, spouse.
 - (b) You have not written or revised a book relating to the paper for use of the candidates for the examination in which you have been appointed. (This does not apply to Honours, Post Graduate, Engineering, Practical examinations and Internal Examiners).
 - (c) You are not a member of the B.O.S./Revising Committee.
 - (d) You are teaching in an affiliated institution or in a University Department.
 - (e) **You possess not less than 10 years' teaching experience in the subject, in which appointed in recognised institutions.** The condition of 10 years' teaching experience has, however, been relaxed to 5 years in the case of University Professors, University Readers and examiners in Agriculture, Architecture, Law, Pharmacy and Engineering etc.
 - (f) You have not been disqualified by this University for the which for which you appointed.
2. If you do not fulfil any of the conditions mentioned above, the offer may please be considered as cancelled and inform this office about it **by return of Post. The material supplied to you should be returned.** If you fulfil the conditions, kindly communicate your Acceptance per return post **immediately**, on the printed form sent herewith, in the envelope (S-46/A) enclosed for the purpose. All the columns of the Willingness Form/ Certificate may kindly be filled-in and signed.
 3. Five percent deduction will be made from your honorarium for Teachers' Holiday Home Fund. Rs. 5/- will be deducted as entry fee in the examiners' card.
 4. If you accept this invitation, kindly set the question paper(s) as per Speciman of Press Copy/Office Copy and send two/three copies as the case may be thereof **Insured Post** so as to reach the Professor Incharge (Exams) by name, not later than immediate 2015, in the prescribed envelopes.
 5. **It is requested that then Question-papers(s) be supplied in duplicate duly TYPED personally.**
 6. The Paper-Setters in written paper involving Mathematical and Numerical problems should send the solutions of those problems alongwith the question-papers in the envelopes supplied for the purpose.

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B₃ (B) OPTION (V) MEASUREMENT AND EVALUATION

Time: 1:30 Hrs

M. Marks: 50

Terminal: 40

Sessional: 10

Instructions for the Paper Setter/ Candidate

1. The question paper will consist of three UNITS: UNIT I, II and III.
2. The paper setter will set three questions from each UNIT I and II.
3. The candidate will be asked to attempt two questions from each UNIT. Each question will carry 8 marks.
4. UNIT-III will be compulsory. It will consist of two short answer questions covering the entire syllabus and carry 4 marks each.

Objectives

To enable student teachers to:

- Understand the concepts employed for evaluation of pupils.
- Construct different types of test items.
- Understand the situations in which to employ different evaluation techniques.

UNIT-I

1. Evaluation: Concept of measurement and evaluation, scales of measurement
2. Types of evaluation: Summative and formative- their merits and demerits
3. Pearson's Product Moment co-efficient of correlation

UNIT-II

1. Construction of different types of test items- Short answer type, essay type and objective type
2. Preparation of blue print and question paper
3. Characteristics of a good tool of evaluation – Reliability, Validity and Usability, use of computer in evaluation

Sessional work

Performance in House Examination I & II

Practical work

: 10 Marks
: 5 Marks
: 5 Marks

1. Construction of a blue print and a question paper of any subject of any class.
2. Take a class of students. Take the marks of any two subjects of school examination and find out the coefficient of correlation between these two subjects by Pearson's Product Moment Method.

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References:

1. Anastasi, A. (1988): Psychological Testing. Macmillan Publishing Company, New York. ✓
2. Ebel, R.L. (1991): Essentials of Educational Measurement. Prentice Hall, New Delhi. ✓
3. Garrett, H.E. (2005): Statistics in Psychology and Education. Paragon, New Delhi. ✓
4. Linn, R.L. and Grelund, N.E. (2003): Measurement and Evaluation in Teaching. Pearson Education, Singapore. ✓
5. Sahu, Binod K. (2005): Statistics in Psychology and Education. Kalyani Publications, Ludhiana. ✓
6. Singh, A.K. (2002): Tests, Measurements and Research Methods in Behavioural Sciences. Bharti Bhavan Publishers, Patna. ✓
7. Thorndike, Robert, L. (1962): Measurement and Evaluation in Psychology and Education. John Wiley, New York. ✓

B.Ed.

Paper-V(B)Opt.(v): Measurement & Evaluation

Time Allowed: 90 minutes

Max. Marks: 40

- i) Attempt TWO questions from each of Unit-I and II. Each question carries 8 marks.
ii) Unit-III is Compulsory.

Unit-I

Differentiate between Formative and Summative Evaluation.

What are various scales of measurement? Discuss with the help of examples.

Calculate the coefficient of correlation between the scores of test-I and test-II

Test-I	Test-II
1	4
4	3
6	2
5	7
2	1
1	5
6	10
2	5
8	11
5	12

Unit-II

- 4.. From four different types of objective type test items for Class VIII on the topic of your choice. Discuss the utility of this type of evaluation over essay type tests.
5. Prepare blueprint of a Question Paper on any subject of your choice.
6. What do you mean by 'Validity of a test'? Discuss various methods of estimating validity of a test.

Unit-III

7. Discuss the concept of Evaluation.
8. Give advantages of Formative Evaluation.

(Punjabi Version)

- ਨੋਟ : 1) ਇਕਾਈ-1 ਅਤੇ 2 ਵਿਚੋਂ ਦੋ-ਦੋ ਪ੍ਰਸ਼ਨ ਕਰੋ। ਹਰ ਪ੍ਰਸ਼ਨ ਦੇ 8 ਅੰਕ ਹਨ।
2) ਇਕਾਈ-3 ਅਨਿਵਾਰੀ ਹੈ।

ਇਕਾਈ-1

1. ਰਚਨਾਕਾਰੀ ਮੁੱਲਾਂਕਣ ਅਤੇ ਜੋੜਫਲ ਮੁੱਲਾਂਕਣ ਵਿਚ ਅੰਤਰ ਸਪੱਸ਼ਟ ਕਰੋ।
2. ਮਾਪਣ ਦੇ ਵਿਭਿੰਨ ਪੈਮਾਨੇ ਕੀ ਹਨ? ਉਦਾਹਰਣਾਂ ਦੀ ਸਹਾਇਤਾ ਨਾਲ ਚਰਚਾ ਕਰੋ।
3. ਟੈਸਟ-1 ਅਤੇ ਟੈਸਟ-II ਦਰਮਿਆਨ ਗੁਣਾਂਕ ਅਤੇ ਸਹਿ-ਸੰਬੰਧ ਦਾ ਹਿਸਾਬ ਲਗਾਉ :-

Test-I	Test-II
1	4
4	3
6	2
5	7
2	1
1	5
6	10
2	5
8	11
5	12

(2)

ਇਕਾਈ-2

4. ਅਠਵੀਂ ਸ਼੍ਰੇਣੀ ਲਈ ਚਾਰ ਵਿਭਿੰਨ ਸੰਖਿਪ ਉੱਤਰ ਪ੍ਰਕਾਰ (Objective type) ਟੈਸਟ ਆਇਟਮਾਂ ਆਪਣੀ ਪਸੰਦ ਦੇ ਕਿਸੇ ਇਕ ਵਿਸ਼ੇ ਤੇ ਬਣਾਓ। ਇਸ ਪ੍ਰਕਾਰ ਦੇ ਮੁਲਾਂਕਣ ਦਾ ਨਿਬੰਧ ਪ੍ਰਕਾਰ ਟੈਸਟਾਂ ਦੇ ਉਪਯੋਗ ਨਾਲ ਕੀ ਲਾਭ ਹੈ? ਚਰਚਾ ਕਰੋ।
5. ਆਪਣੀ ਪਸੰਦ ਦੇ ਕਿਸੇ ਵੀ ਵਿਸ਼ੇ ਨੂੰ ਲੈ ਕੇ ਇੱਕ ਪ੍ਰਸ਼ਨ ਪੱਤਰ ਦਾ ਬਲੂ ਪ੍ਰਿੰਟ ਤਿਆਰ ਕਰੋ।
6. ਟੈਸਟ ਦੀ 'ਵੈਧਤਾ' ਤੋਂ ਤੁਸੀਂ ਕੀ ਸਮਝਦੇ ਹੋ? ਟੈਸਟ ਦੀ ਅਨੁਮਾਨਿਤ ਵੈਧਤਾ ਦੀਆਂ ਵਿਭਿੰਨ ਵਿਧੀਆਂ ਦੀ ਚਰਚਾ ਕਰੋ।

ਇਕਾਈ-3

7. ਮੁਲਾਂਕਣ ਦੀ ਧਾਰਨਾ ਤੇ ਚਰਚਾ ਕਰੋ।
8. ਰਚਨਾਕਾਰੀ ਮੁੱਲਾਂਕਣ ਦੇ ਲਾਭ ਦੱਸੋ।

(Hindi Version)

- ਨੋਟ : 1 ਇਕਾਈ I ਵ II ਦੇ ਪ੍ਰਤਿਕ ਦੋ-ਦੋ ਪ੍ਰਸ਼ਨ ਕਰੋ। ਪ੍ਰਤਿਕ ਪਰ 8 ਅੰਕ ਹੈ।
2 ਇਕਾਈ III ਨਿਰਾਰਥ ਹੈ।

ਇਕਾਈ-I

- 1 ਰਚਨਾਤਮਕ ਮੂਲਾਂਕਣ ਅਤੇ ਸੰਯੋਜਕ ਮੂਲਾਂਕਣ ਵਿਚ ਅੰਤਰ ਸਪੱਸ਼ਟ ਕਰੋ।
- 2 ਮਾਪਨ ਦੇ ਵਿਭਿੰਨ ਸਕੇਲ ਕੀਆਂ ਹਨ? ਸੀਮਾਵਰਤਨ ਸਮਝਾਓ।
- 3 ਸਕੋਰ ਵ ਟੈਸਟ I ਅਤੇ II ਦੇ ਵਿਚ ਸਹਸੰਬੰਧ ਗੁਣਾਂਕ ਦੀ ਗਣਨਾ ਕੀਜੀਏ।

ਟੈਸਟ I	ਟੈਸਟ II
1	4
4	3
6	2
5	7
2	1
1	5
6	10
2	5
8	11
5	12

ਇਕਾਈ-II

- 4 ਆਠਵੀਂ ਸ਼੍ਰੇਣੀ ਦੇ ਲਿਏ ਕਿਸੀ ਭੀ ਵਿਸ਼ਯ ਪਰ ਚਾਰ ਵਿਭਿੰਨ ਲਘੁ ਉਤਰ ਪ੍ਰਕਾਰ (Objective Type) ਟੈਸਟ ਆਇਟਮਾਂ ਬਨਾਏ। ਇਸ ਪ੍ਰਕਾਰ ਦੇ ਮੂਲਾਂਕਣ ਕਾ ਨਿਬਧਾਤਮਕ ਪ੍ਰਕਾਰ ਟੈਸਟਾਂ ਦੇ ਉਪਯੋਗ ਤੋਂ ਕਯਾ ਲਾਭ ਹੈ? ਚਰਚਾ ਕਰੋ।
- 5 ਅਪਣੀ ਪਸੰਦ ਦੇ ਕਿਸੀ ਭੀ ਵਿਸ਼ਯ ਕੋ ਲੇਕਰ ਏਕ ਪ੍ਰਸ਼ਨ ਪਤਰ ਕਾ ਬਲੂਪ੍ਰਿੰਟ ਬਨਾਏ।
- 6 ਪਰੀਕਸ਼ਾ (Test) ਕੀ ਵੈਧਤਾ ਤੋਂ ਕਯਾ ਅਰਥ ਹੈ? ਇਸਕੀ ਵੈਧਤਾ ਕਾ ਆਕਲਨ ਕਰਨੇ ਕੀ ਵਿਭਿੰਨ ਵਿਧਿਯਾਂ ਲਿਖਿਏ।

ਇਕਾਈ-III

- 7 ਮੂਲਾਂਕਣ ਕੀ ਅਵਧਾਰਨਾ ਪਰ ਚਰਚਾ ਕਰੋ।
- 8 ਰਚਨਾਤਮਕ ਮੂਲਾਂਕਣ ਕੇ ਲਾਭ ਬਤਾਓ।

810(2414)/1200

PANJAB UNIVERSITY

No. PS/ 12694-711 /SS-III/SS-IV

Dated 27/10/14

From

Controller of Examinations,
Panjab University,
Chandigarh

To

Kindly Set Two Sets of
Question Papers

Dr Khushvinder Kumar
Patiala

Dear Sir/Madam,

On the approval of Vice-Chancellor you are offered an assignment of Paper-Setter in the subject

of Teaching of Mathematics

Paper - V
Option _____ for the B.Ed. Special Edu. (Mental Retardation) 1st sem.
Exam. to be held in Nov. 2014, as well as April 2015, subject to the condition that :

- (a) None of your relations* is appearing in this examination.
*Wife, husband, son, daughter, brother, sister, father, mother, wife's brother, wife's sister, husband's father, husband's sister/brother, nephew, niece, grand-son, grand-daughter, son-in-law, daughter-in-law.
- (b) You have not written or revised any book relating to the paper for use of candidates for the examination. (This does not apply to Honours, Post Graduate, Engineering, medical, Practical examinations as well as Internal Examiners).
- (c) Persons who are authors of a book/s which has/have not been approved by DUI./D.P.I., are not eligible for appointment as Paper-Setter/Examiners.
- (d) You are neither teaching nor have taught this particular course to the class, during one preceding year in the case the duration of the course is of one year and two preceding years in case the duration of the course is of two or more years. (This shall not apply to Internal Examiners).
- (e) You have not attained the age of 65.
- (f) You have taught this subject in an affiliated institution.
- (g) You possess 10 years' teaching experience in affiliated institutions. (The condition of 10 years' teaching experience has, however, been relaxed to 5 years in the case of University Professors.)
- (h) No candidate, residing with you or privately coached by you, is appearing in this examination.
- (i) You have not been disqualified for any negligence on your part for any work assigned to you by this University or provided the period of disqualification is already over.
- (j) You are teaching the paper for which you have been appointed as Internal Examiner (applicable to Internal Examiners only).

If you fulfil the above conditions and are willing to accept the appointment, kindly convey your consent to Deputy/ Assistant Registrar (Secrecy), Panjab University, Chandigarh-160014, immediately on the printed form for the purpose, preferably per return mail. Also please set the question papers and prepare two copies of each question paper (i.e. one Press Copy and other office copy) thereof on the enclosed forms and send the same alongwith relevant Certificates (by registered post) to the Controller of Examinations, Panjab University, Chandigarh-160014 (BY NAME) so as to reach him latest by IMMEDIATELY in the prescribed envelopes, each duly closed and sealed with adhesive tape properly with your signature stamp/seal.

In case, you do not fulfil any of the conditions mentioned above, kindly to inform this office about the same, by return of post. The material supplied to you should also be returned immediately, so that alternative arrangement may be made without any delay.

The enclosed envelopes must, on no account, be used for any other purposes such as the submission of award lists etc. All other correspondence of confidential nature relating to the questions set or being set, must be despatched by registered post, in sealed double covers, marked 'MOST CONFIDENTIAL' and the outer cover be addressed to the Controller of Examinations, by name.

P.T.O.

PANJAB UNIVERSITY

No.PS/ 12416-12499 /SS-HI/SS-IV

Dated 25/10/14

From

Controller of Examinations,
Panjab University,
Chandigarh

To

Kindly Set Two Sets of
Question Papers

Dr. Khushvinder Kumar
Patna

Dear Sir/Madam,

On the approval of Vice-Chancellor you are offered an assignment of Paper-Setter in the subject
of Teaching of Mathematics

Paper VI & VII

Option (X) for the B.Ed. Ist Sem.

Exam. to be held in Nov. 2014, as well as April 2015, subject to the condition that :

- (a) None of your relations* is appearing in this examination.
*Wife, husband, son, daughter, brother, sister, father, mother, wife's brother, wife's sister, husband's father, husband's sister/brother, nephew, niece, grand-son, grand-daughter, son-in-law, daughter-in-law.
- (b) You have not written or revised any book relating to the paper for use of candidates for the examination. (This does not apply to Honours, Post Graduate, Engineering, medical, Practical examinations as well as Internal Examiners).
- (c) Persons who are authors of a book/s which has/have not been approved by DUI./D.P.I., are not eligible for appointment as Paper-Setter/Examiners.
- (d) You are neither teaching nor have taught this particular course to the class, during one preceding year in the case the duration of the course is of one year and two preceding years in case the duration of the course is of two or more years. (This shall not apply to Internal Examiners).
- (e) You have not attained the age of 65.
- (f) You have taught this subject in an affiliated institution.
- (g) You possess 10 years' teaching experience in affiliated institutions. (The condition of 10 years' teaching experience has, however, been relaxed to 5 years in the case of University Professors.)
- (h) No candidate, residing with you or privately coached by you, is appearing in this examination.
- (i) You have not been disqualified for any negligence on your part for any work assigned to you by this University or provided the period of disqualification is already over.
- (j) You are teaching the paper for which you have been appointed as Internal Examiner (applicable to Internal Examiners only).

If you fulfil the above conditions and are willing to accept the appointment, kindly convey your consent to Deputy/ Assistant Registrar (Secrecy), Panjab University, Chandigarh-160014, immediately on the printed form for the purpose, preferably per return mail. Also please set the question papers and prepare two copies of each question paper (i.e. one Press Copy and other office copy) thereof on the enclosed forms and send the same alongwith relevant Certificates (by registered post) to the Controller of Examinations, Panjab University, Chandigarh-160014 (BY NAME) so as to reach him latest by IMMEDIATELY in the prescribed envelopes, each duly closed and sealed with adhesive tape properly with your signature stamp/seal.

In case, you do not fulfil any of the conditions mentioned above, kindly to inform this office about the same, by return of post. The material supplied to you should also be returned immediately, so that alternative arrangement may be made without any delay.

The enclosed envelopes must, on no account, be used for any other purposes such as the submission of award lists etc. All other correspondence of confidential nature relating to the questions set or being set, must be despatched by registered post, in sealed double covers, marked 'MOST CONFIDENTIAL' and the outer cover be addressed to the Controller of Examinations, by name.

P.T.O.

Syllabus and course of reading in the subject Teaching of Mathematics

Paper - VI & VII

For B. Ed. 1st Semester.

Examination December 2014.

Maximum Marks 40

Time Allowed 3 Hours

IMPORTANT NOTE: The paper setter is requested to set the question papers strictly according to the syllabus given below. He is further requested to supply the Instructions for the evaluators in a separate envelope.

1.4 For the setting of Theory Question papers, the following rules should be observed for both semesters:

- (i) In paper I, II and III, 80 marks are for external theory (40 in each semester for said subjects), 10 marks are for Internal Practical work (5 marks are for each semester in said subjects), 10 marks are for continuous Internal evaluation (5 marks are for each semester for said subjects). In paper IV (Part A in First Semester) and Paper IV (Part B) in Second semester, 40 marks are for External Theory, 5 marks are for Internal Practical work and 5 marks are for continuous internal evaluation. In paper V (Part A in First semester), 32 marks are for external Theory, 16 marks are for External Practical, 6 marks for Internal practical work and 6 marks for continuous internal evaluation. In Paper V (Part B) in Second semester, 32 marks are for external theory, 4 marks for Internal Practical work and 4 marks for continuous internal evaluation. Two teaching methodology papers VI & VII opted by the candidate will be of 100 marks (50 in each semester). 80 marks i.e 40 marks in each semester for both Teaching subject for External theory, 10 marks (5 marks in each semester) for internal preparatory file and 10 marks (5 marks in each semester) for continuous internal evaluation)
- (ii) The papers shall be set by external examiner; each paper will be of two hours duration. In papers I, II and III (in both semesters) the Question paper shall be divided into four parts. First three parts will pertain three units of the course content. Two questions will be set from each unit of the course & candidates will be required to attempt one question from each part. Each question will carry 10 marks. Fourth part of the Question paper will be compulsory. It will consist of two short answer type questions and these questions will cover the entire course. Each short answer type question will be of 5 marks and answer should not exceed 90 words. Each theory paper in both semester will be of $10 \times 3 = 30 + 5 \times 2 = 10$ total 40 marks (5 marks are for continuous internal evaluation done on the basis of written assignments, snap tests, participation in discussions held in the class, term papers, attendance etc in both semesters. $5 \times 2 = 10$. 5 marks are allotted for internal evaluation of the practicals work in each paper for both semester. Total marks allotted to each paper in both semester are 100 (40+5+5 and 40+5+5)
- (iii) Paper IV shall be divided into two semesters -paper IV A - (PART A, School Management, in Sem.-I) and paper IV B- (PART B, Guidance and Counselling, in Sem.-II). In paper IV - (PART A) the question paper shall be divided into four parts. First three parts will pertain three units of the course content, two questions will be set from each unit of the course, in each part of the question paper. The candidate will be required to attempt one question from each part. Each question will carry 10 marks. Fourth part of the question paper will be compulsory. It will consist of two short answer type questions and these questions will cover the entire course content uniformly. Each short answer type question will be of five marks and the answer should not exceed 90 words. This theory paper will be of $(10 \times 3) = 30 + (5 \times 2 = 10) = 40$ marks. In paper IV- (PART B) the question paper shall be divided into three parts. First two parts will pertain two units of the course content; two questions will be set from each unit of the course, in each part of the question paper. The candidate will be required to attempt one question from each part. Each question will carry 10 marks. Third part of the question paper will be compulsory. It will consist of four short answer type questions two from each unit and these questions will cover the entire course content uniformly. Each short type question will be of five marks and the answer should not exceed 90 words. This theory paper will be of $(10 \times 2) = 20 + (5 \times 4) = 20 = 40$ marks. In paper IV - (PART A) and IV - (PART B) 5 marks are for continuous internal evaluation done on the basis of written assignments, snap tests, participation in the discussions held in the class, term papers, attendance etc. 5 marks are allotted for the internal evaluation of the practical work. Total marks allotted to paper IV- PART A and IV - PART B are 50 each. For external theory examination there shall be two hours for each paper i.e IV (Part -A & Part -B)

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- (iv) Paper V shall be divided into two parts – Paper V - PART A (ICT Skill, in Sem.-I) and Paper V - PART B (for one subject opted by the candidate from the list given, in Sem.-II). In paper V - PART A the question paper shall be divided into four parts. First three parts will pertain three units of the course content, two questions will be set from each unit of the course, in each part of the question paper. The candidate will be required to attempt one question from each part. Each question will carry 8 marks. Fourth part of the question paper will be compulsory. It will consist of two short answer type questions and these questions will cover the entire course content uniformly. Each short type question will be of four marks and the answer should not exceed 75 words. This theory paper will be of $(8 \times 3 = 24) + (4 \times 2 = 8) = 32$ marks. In paper V - PART B, the question paper shall be divided into three parts. First two parts will pertain two units of the course content, two questions will be set from each unit of the course, in each part of the question paper. The candidate will be required to attempt one question from each part. Each question will carry 8 marks. Third part of the question paper will be compulsory. It will consist of four short answer type questions and two from each unit these questions will cover the entire course content uniformly. Each short answer type question will be of four marks and the answer should not exceed 75 words. This theory paper will be of $(8 \times 2 = 16) + (4 \times 4 = 16) = 32$ marks. For paper V - PART A, 28 marks are allotted for practical work out of which 16 marks are for external (Practical), 6 marks are for (internal) practical work and 6 marks for continuous internal evaluation. Total marks for paper V - PART A = $32 + (16 + 6 + 6) = 60$, in Sem.-I. In paper V - PART B, 4 marks are for (internal) practical work and 4 marks are allotted to continuous internal evaluation. Total marks for paper V - PART B = $32 + (4 + 4) = 40$, in Sem.-II. For external theory examination there shall be two hours for each paper i.e. V (Part -A & Part -B).
- (v) Internal evaluation and Internal practical work in the above papers shall be done by the committee consisting of at least three members of faculty (of the particular subject) with the principal as moderator.
- (vi) Papers IV- A and IV- B as well as for Papers V- A and V-B will be in separate semesters.
- (vii) Papers VI and VII will comprise of Methodology of Teaching of any two teaching subjects in which the scheme of marks will be as follows: $2 \times \{2 \times (40+5+5=50)\} = 200$ marks,
- (viii) Paper VI and VII will be of 50 marks in both semesters out of which 40 marks are for external theory in both semester, 5 marks are for internal practical work. Each question paper shall be divided into four parts in each semester, first three parts will pertain three units of the course content in each semester. Two questions will be set from each unit of the course in each part of the question paper. The candidates will be required to attempt one question from each part in each semester. Each question will carry 10 marks in each semester. Fourth part of the question paper will be compulsory. It will consist of two short answer type questions from IV Unit of the course content in each semester. Each short answer type question will be of 5 marks and answer should not exceed 90 words in both semesters. This theory paper will be in both semester $2 \times (10 \times 3) + (5 \times 2) = 80$ marks. 10 marks will be in both semester, 5 marks are for continuous internal evaluation in each semester will be done on the basis of written assignment (01), snap tests, participation in the discussions held in class room, term paper attendance etc. Total marks allotted to each paper are 100.

-3-

-3-

SEMESTER - I**10. TEACHING OF MATHEMATICS**

Max Marks	: 50
External Theory	: 40
Internal Evaluation	: 05
Internal Practical	: 05

OBJECTIVES:

Upon completion of the course, the student-teachers will have.

- Understanding of nature of mathematics.
- Understanding of historical developments leading to modern mathematics concepts.
- Understanding of learning theories and their application in mathematics education.
- Improve competencies in secondary level mathematics.

UNIT - I

- Meaning of Mathematics, history of mathematics, contribution of Indian mathematicians with reference to Bhaskaracharyas, Aryabhata, Ramanujan & Contributions of Euclid, Pythagoras, Rene-Descarte.
- Nature of mathematics & difference among assumptions, postulates & axioms.
- Values of teaching mathematics & place of mathematics in school.
- Aims & objectives of teaching mathematics at secondary school stage, framing of objectives according to Bloom's taxonomy.

UNIT - II

- Inductive- Deductive & Analytic- Synthetic methods with examples.
- Problem-solving: Definition, importance of problem solving & mathematical modeling.
- Concept formation & assimilation, use of Concept Attainment Model, planning and implementation of strategies in teaching mathematical concept.

UNIT - III

- Lesson Planning: Meaning, Importance and steps of lesson planning; formation of Macro lesson plan.
- Micro Lesson Planning: Meaning, Importance and steps and formation of Micro lesson plan with special reference to following micro teaching skills- Introduction of lesson, Questioning, Explanation, Stimulus Variation and Black Board writing.
- Teaching aids: Projective and Non-Projective.

UNIT - IV

- Arithmetic:-
Number System (Knowing the Numbers, Playing with Numbers, Natural, Whole Numbers, Integers, rationals, Irrationals & Real numbers.)
Exponents (surds, squares, cube, square root & cube root)
Profit & Loss, Simple & Compound Interest and Discount.
Ratio and Proportion.
- Algebra:-
Introduction to Algebraic Identities and Polynomials.
Linear, Simultaneous and Quadratic equations with their solution.

INTERNAL PRACTICAL

Development of a learning aid on any topic in mathematics and procedure for using it

-4-

- 4 -

BOOKS SUGGESTED:

- Anthony, Glende and Walshaw, Margaret (2009). *Effective Pedagogy in Mathematics: Gonnet Imprimeur, 01300 Belley, France.*
- Arora, S.K. (2000). *How to Teach Mathematics.* New Delhi: Sterling Publishers Pvt. Ltd.
- Gakhar, S.C. and Jaidka, M.L. (2003). *Teaching of Mathematics.* Panipat: M/s N.M. Publishers.
- Kumar, Khushwinder and Kaur, Jaspreet (2012). *Learning Mathematics- A Lab Experience.* Gurur Sar Sadhar : GBD Publishers.
- Kumar, Sudhir and Ratan, P.N. (2003). *Teaching of Mathematics.* New Delhi: Anmol Publication Pvt. Ltd.
- Mangal, S. K. (2007). *Teaching of Mathematics.* New Delhi: Arya Book Depot.
- N.C.E.R.T. *Text Books 6th to 10th Standard*
- National Focus on Teaching of Mathematics.* Published at the Publication Department by the Secretary, National Council of Educational Research and Training, Sri Aurobindo Marg, New Delhi 110016 and printed at Bengal Offset Works, 335, Khajoor Road, Karol Bagh, New Delhi 110005, NCERT, 2006.
- Shankaran & Gupta, H. N. (1984). *Content-cum-Methodology of Teaching Mathematics.* New Delhi: NCERT
- Siddiqui, Hasan. Mujibul (2005). *Teaching of Mathematics:* New Delhi: A.P.H Publishing co-operation.
- Sidhu, K S. (1998). *Teaching of Mathematics.* New Delhi: Sterling Publication Pvt. Ltd.
- Hukum, Avtar Ram and Singh, V.P. (2005). *A Handbook for Designing Mathematics Laboratory in Schools.* New Delhi: NCERT.
- Thomas, A. S. (1993). *Mathematics for Elementary Teachers (An Interactive Approach).* Florida: HBJ Publishers
- Websites :**
- <http://www.ncert.nic.in>
- <http://rse.sagepub.com>
- <http://www.edfac.unimelb.ed.ac>
- <http://www.eric.ed.gov>
- <http://www.merga.net.au>
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- <http://www.ibe.unesco.org>


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Syllabus and course of reading in the subject Teaching of Mathematics

Paper - V

For B.Ed. Special Education (Mental Retardation) 1st Sem.

Examination December 2014.

Maximum Marks 80

Time Allowed 3 Hours

IMPORTANT NOTE: The paper setter is requested to set the question papers strictly According to the syllabus given below. He is further requested to supply the Instructions for the evaluators in a separate envelope.

Paper : V

TEACHING OF MATHEMATICS

Max Marks : 100 Marks

External Theory : 80 marks

Internal Practical & Evaluation : 20 Marks

Objectives:

- Understanding of nature of mathematics.
- Understanding of historical developments leading to concepts in modern mathematics.
- Understanding of learning theories and their application in mathematics education.
- Improve competencies in secondary level mathematics.
- Understanding preparation and use of diagnostic test and organize remedial teachings.
- Application of appropriate evaluation techniques in mathematics.

Instructions for Paper Setters.

- Theory paper shall be of 80 marks and shall comprise of nine questions evenly distributed unit wise. The candidates shall be required to attempt five questions.
- Question No 1 shall be compulsory, consisting of 05 short answer type questions, spread over the whole syllabus to be answered in 50 words and carrying 4 marks each ($5 \times 4 = 20$ marks)
- In addition to Question No 1 candidates are required to attempt 4 long answer type questions by selecting one from each of the four units. Each unit shall have two questions of 15 marks each ($4 \times 15 = 60$ marks).

UNIT 1:-

- 1.1 Meaning of Mathematics; history of mathematics, contribution of Indian mathematicians with reference to Bhaskaracharyas, Aryabhatta, Ramanujan and Contributions of Euclid, Pythagoras Rene-des carte.
- 1.2 Nature of mathematics and difference among assumptions, postulates and axioms.
- 1.3 Values of teaching mathematics and place of mathematics in school
- 1.4 Aims and objectives of teaching mathematics at secondary school stage; framing of objectives according to Bloom's taxonomy.

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UNIT 2:-

- 2.1 Inductive- Deductive and Analytic- Synthetic methods with examples.
- 2.2 Problem-solving: definition, importance of problem solving and mathematical modeling.
- 2.3 Concept formation and assimilation; use of Concept Attainment Model; planning and implementation of strategies in teaching mathematical concept.
- 2.4 Fixing devices: oral, written, drill work, questioning, supervised study and Mathematical Modeling.
- 2.5 The Van-Hiele Levels of Geometric thinking.
- 2.6 Nature & kinds of proof: direct proof, mathematical induction, proof by contradiction, disproof by counter example.
- 2.7 Learning Resources in Mathematics: Text-book quality (academic and technical).
- 2.8 Mathematics Laboratory-planning & organizing lab activities.
- 2.9 Teaching aids: projected & Non-projected.

UNIT 3:-

- 3.1 Principle and rationale of Curriculum development.
- 3.2 Organization of syllabi both logically and psychologically according to the age group of children.
- 3.3 Recent curriculum reforms at National Level/State Level & their critical appraisal
Pedagogical analysis of different topics of mathematics
- 3.4 Lesson Planning: Meaning, Importance and steps of lesson planning; formation of Macro lesson plan.
- 3.5 Micro Lesson Planning: Meaning, Importance and steps and formation of Micro lesson plan with special reference to following micro teaching skills- Introduction of lesson, Questioning, Explanation, Stimulus Variation and Black Board writing.
- 3.6 Diagnosing basic causes for difficulties in mathematics learning; Planning remedial teaching strategies based on the perceived causes for difficulties in learning, implementing and evaluating the strategies.
- 3.7 Construction of appropriate test items for assessing product (learning outcomes) and developmental (thinking skills) outcomes.

UNIT 4:-

- 4.1 Arithmetic: Number System (Knowing the Numbers, Playing with Numbers, Natural, Whole Numbers, Integers, rationals, Irrationals & Real numbers.); Exponents (surds, squares, cube, square root & cube root); Profit & Loss, Simple & Compound Interest and Discount; Ratio and Proportion.
- 4.2 Algebra: Introduction to Algebraic Identities and Polynomials; Linear, Simultaneous and Quadratic equations with their solution.

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Geometry: Basic geometrical ideas (2-D & 3-D shapes); Symmetry: (reflection);
Constructions (Using straight edge scale, protractor, compasses); Quadrilaterals;
Menstruations (circle, sphere, cone, cylinder, triangles); Data handing, statistics

Practical Assingment:

- 1) Construction of diagnostic test/ achievement test (unit/terminal) in mathematics.
- 2) Planning and implementation of instructional strategies to remedy the diagnosed learning difficulties.
- 3) Development of a learning aid on any topic in mathematics and procedure for using it.

Reference books :

- 1) Anthony, Glende and Walshaw, Margaret (2009). *Effective Pedagogy in Mathematics*: Gonnet Imprimeur, 01300 Belley, France. in *...denier*
- 2) Arora, S.K. (2000). *How to Teach Mathematics*. New Delhi: Sterling Publishers Pvt. Ltd.
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<http://ling.springerimages.com>
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