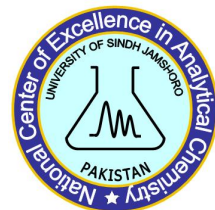


# NATIONAL CENTER OF EXCELLENCE IN ANALYTICAL CHEMISTRY

UNIVERSITY OF SINDH JAMSHORO

Tel: +92-22-2772065, 2771379 Fax: +92-22-2771560 E-mail: [director@ceacsu.edu.pk](mailto:director@ceacsu.edu.pk)

Website: [www.ceacsu.edu.pk](http://www.ceacsu.edu.pk)



## ADMISSION FORM

Affix or paste Photograph here	Admission for the Year	<b>2010</b>
	Applied for	<input type="checkbox"/> <b>M.Phil</b> <input type="checkbox"/> <b>Ph.D</b>

**IMPORTANT** Incomplete admission form will not be entertained.

Admission fee paid vide Bank Challan /Demand Draft/Online Transfer No. \_\_\_\_\_ Dated \_\_\_\_\_ Rs. 750/=

### PARTICULARS OF THE APPLICANT (Type or print in ink clearly)

1. Full Name (in block letters) \_\_\_\_\_
2. Father's Name \_\_\_\_\_
3. Surname \_\_\_\_\_
4. Date of birth \_\_\_\_\_ Place of birth \_\_\_\_\_
5. Nationality \_\_\_\_\_
6. Gender  Male  Female      7. Marital status  Married  Unmarried

8. CNIC No. \_\_\_\_\_

9. Mailing address \_\_\_\_\_  
 \_\_\_\_\_ City \_\_\_\_\_ Country \_\_\_\_\_  
 Tel / Cell No. \_\_\_\_\_ Fax \_\_\_\_\_  
 E-mail \_\_\_\_\_

### 10. Educational qualifications:

Name of institution	Degree / Certificate	Subjects	Year (When degree attained)	Percentage
	Matriculation			
	Intermediate			
	B.Sc.			
	M.Sc./ B.S / BE			
	M.Phil/ ME/ MS			

I do here by declare that all information given in this form is correct. I also agree that if I am not provided financial assistance by Centre I shall continue to do research and support myself from my own resources during my stay in Centre.

Dated \_\_\_\_\_

Name of the Applicant: \_\_\_\_\_ Signature \_\_\_\_\_  
(in block letters)

**NOTE:**

If the applicant is employed in government / semi government or private organization then the following certificate must be given by the Head of the employee's institution:

The applicant Mr. / Miss \_\_\_\_\_ Son /daughter of \_\_\_\_\_ who is a candidate for admission to M. Phil / Ph.D. course at National Centre of Excellence in Analytical Chemistry is hereby forwarded and if selected, he/she shall be relieved without any condition / delay to start research work at the Centre.

Name of the Head: \_\_\_\_\_ Signature \_\_\_\_\_  
(in block letters)

Seal / Stamp

Designation \_\_\_\_\_ Date \_\_\_\_\_

**FOLLOWING DOCUMENTS IN ORIGINAL / ATTESTED PHOTOSTAT COPIES TO BE ATTACHED:**

1. Original receipt of Rs. 750/= as Bank Challan (should be collected from Admin office of NCEAC.) or Demand Draft /Online transfer in the favor of **Director, NCEAC, University of Sindh, Jamshoro**. Account No 00720006019503, Habib Bank Limited, Sindh University Branch, Jamshoro.
2. S.S.C. Pass & Marks Certificates.
3. H.S.C. Pass & Marks Certificates.
4. B.Sc. (Hons) Pass & Marks Certificates
5. M.Sc./ B.S. Pass & Marks Certificates (Plus original for admission to M.Phil)
6. M.Phil /M.S. Pass & Marks Certificates (Plus original for admission to Ph.D)
7. N.O.C.
8. Copy of Computerized National Identity Card.
9. Two recent photographs (Passport Size)
10. Two self addressed envelopes (4" x 9.5")

**For official Use only**

1. Admitted / Rejected: \_\_\_\_\_

2. Stipend awarded if any: \_\_\_\_\_

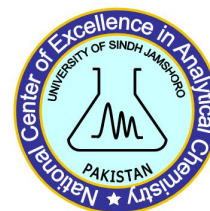
3. Additional Remarks if any: \_\_\_\_\_

Dated: \_\_\_\_\_

**DIRECTOR**  
**NCEAC, University of Sindh,**  
**Jamshoro**

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**ADMISSION SLIP**

Test Date: \_\_\_\_\_ Time: \_\_\_\_\_

Duration of Test: \_\_\_\_\_

Seat No \_\_\_\_\_

To be used by admission cell In-charge

Full Name (in block letters) \_\_\_\_\_

Father's Name \_\_\_\_\_

Surname \_\_\_\_\_

CNIC No. \_\_\_\_\_

*Affix or paste  
Photograph  
here*

**Signature of Applicant**

**Director**

Note: No TA/ DA are admissible  
You are required to show original CNIC at the time of test.  
Scientific Calculator may be used during the test. Do not bring Mobile phone.

## MODEL TEST PAPER

**Note:** The test pattern comprises 50% analytical chemistry and 50% general chemistry.  
Duration of the test will be 90 min.

1. **A molar solution is one which contains one mole of solute in**
  - (a) 10 litre of solution
  - (b) 1 litre of solution
  - (c) 500 ml of solution
  - (d) 5000 ml of solution
  - (e) 250 ml of solution
  - (f) None of the above
2. **One sigma limit denotes**
  - (a) 99.9% confidence level
  - (b) 66.67% confidence limit
  - (c) 50% confidence level
  - (d) None of the above
3. **In spectrochemical analysis the value of molar absorptivity ( $\epsilon$ )  $2 \times 10^5 \text{ M}^{-1} \text{ cm}^{-1}$  can be expressed as**
  - (a)  $2 \times 10^{-2} \text{ mole cm}^2$
  - (b)  $1 \times 10^2 \text{ mole cm}^2$
  - (c)  $2 \times 10^2 \text{ mole cm}^2$
  - (d) None of the above
4. **The wave length of infrared is**
  - (a) 570 - 590 nm
  - (b) < 400 nm
  - (c) >760 nm
  - (d) None of the above
5. **Which method will separate the two ions more efficiently whose separation factor ( $\alpha$ ) is**
  - (a) 2.24
  - (b) 8.36
  - (c) 100
  - (d) 0.1
6.  **$\text{Fe}(\text{OH})_3$  is precipitated at pH**
  - (a) 3
  - (b) 5
  - (c) 7
  - (d) 9
  - (e) 11
7. **The universal buffer mixture consists of**
  - (a) HCl + KCl
  - (b)  $\text{CH}_3\text{COONa} + \text{CH}_3\text{COOH}$
  - (c) Citric acid +  $\text{KH}_2\text{PO}_4$  + boric acid + diethyl barbituric acid + NaOH
  - (d) None of them
8. **The major source of greenhouse effect is**
  - a)  $\text{CH}_4$
  - b)  $\text{CO}_2$
  - c) Nitrous oxides
  - d) CFCs
9. **The purpose of pre-concentration is**
  - a) To improve limit of detection
  - b) To enhance selectivity
  - c) To remove interfering ions
  - d) None of them
10. **Identify the material which is not a natural polymer**
  - a) Cellulose
  - b) Chitosin
  - c) Chitin
  - d) Zeolite
  - e) None of them