**Brief Programs Information**

Program Name: Bachelor of Science in Mechanical Engineering (offered annually)

Entry Requirements: Minimum 60% F.Sc (Pre-Engg.) DAE (Mech.)/A-Levels

Program Duration: 4 Years (08 semesters) 140 Credit Hours Fulltime

Program Recognition: Pakistan Engineering Council & HEC

Program Location: Raiwind Road Campus

**SAMPLE TEST BSME**

<table>
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<tr>
<th>Section 1</th>
<th>Time Allowed: 30 Minutes</th>
<th>Questions: 20</th>
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<tbody>
<tr>
<td>Undergraduate</td>
<td>Choose the correct answer for each question and <strong>encircle</strong> the corresponding choice on answer sheet.</td>
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**ENGLISH SECTION**

**Instructions**

1) Indicate your choice by encircling the corresponding choice on the answer sheet.

**PART -1 READING COMPREHENSION**

**Directions**: Read the two passages and answer all the questions.

In late infancy, the baby takes an interest in games, songs and even books. Progress toward walking moves through standing, balancing, bouncing in place and walking with others. As soon as the baby walks well alone, it has passed from infancy into the active toddler stage.

1) A baby in a late infancy would be able to do all of the following EXCEPT
   A. Makes any speech sound
   B. Walk well alone
   C. show interest in games
   D. intimate actions

2) Treponema palladium causes
   A. Syphilis
   B. Gonorrhea
   C. AIDS
   D. Genital herpes
PART -2 VOCABULARY

Directions: choose the answer which best explains the meaning of the word in bold type

1) Our Company has just acquired two new tractors.
   A. bought
   B. purchased
   C. stolen
   D. obtained

Directions: choose the most appropriate synonym

1) Comprehend
   A. red
   B. colorful
   C. understand
   D. sky

Section 2
Undergraduate  Time: 30 Minutes
Questions: 25  Choose the correct answer for each question and
encircle the corresponding choice on answer sheet.

MATHEMATCIS (Aptitude Section)

Instructions
1) Indicate your choice by encircling the corresponding choice on the answer sheet.
2) You can solve each problem while deciding the best of the choices given, using any available space on the question booklet.

1) If 5c+ 3 = 3c+5, what is the value of c?
   A. -1
   B. 0
   C. 1
   D. 3

2) \[5t^2+30t = 5t\]
   A. -29t
   B. t-6
   C. t+6
   D. 5-6t
3) If the selling price of model B is 60% more than the selling price of model A, what percent of the total sales do the sales of model A represent?

A. 25%
B. 36%
C. 40%
D. None of the above

Section 2
Undergraduate

| Time: 30 Minutes | Questions: 25 | Choose the correct answer for each question and encircle the corresponding choice on answer sheet. |

MATHEMATICS (Achievement Section)

Instructions

1) Indicate your choice by encircling the corresponding choice on the answer sheet.
2) You can solve each problem while deciding the best of the choices given, using any available space on the question booklet.

1) The next term in the sequence is 3, 9, 19, 33, 51... is

A. 55
B. 63
C. 47
D. None of the above

2) A square matrix A is symmetric if A =?

A. A^T
B. A
C. -A
D. A^{-1}

3) The point (\(\cos \theta, \sin \theta\)) always lies on

A. Circle
B. Hyperbola
C. Parabola
D. None of the above
Section 4  
Undergraduate  
Time: 30 Minutes  
Questions: 30  
Choose the correct answer for each question and encircle the corresponding choice on answer sheet.

PHYSICS (Aptitude Section)

Instructions

1) Indicate your choice by encircling the corresponding choice on the answer sheet.

2) You can solve each problem while deciding the best of the choices given, using any available space on the question booklet.

1) An object with the greatest temperature will appear
   A. Green
   B. Blue
   C. White
   D. Orange Red

2) The Unite of __________ is hetz
   A. Frequency
   B. Time Period
   C. Wave Length
   D. Sound

3) A 5 gm. bullet leaves the muzzle of a rifle with a speed of 320 m/s. What force (assumed constant) is exerted on the bullet while it is travelling down the 0.82 m long barrel of the rifle?
   A. 7.92 Newton
   B. 8.14 Newton
   C. 8.98 Newton
   D. None of the above
PHYSICS (Achievement Section)

Instructions
1) Indicate your choice by encircling the corresponding choice on the answer sheet.
2) You can solve each problem while deciding the best of the choices given, using any available space on the question booklet.

1) \( A \times B = 0 \), then
   A. They are parallel
   B. Either A or B is null vector
   C. The vectors are equal to each other
   D. The vectors are opposite in direction

2) Find the rectangular components of velocity 10 m/sec when one of the component make angle of 30° with the resultant
   A. \( 4, 3 \)
   B. \( 5\sqrt{3}, 5 \)
   C. \( \frac{5}{3}, 5 \)
   D. None of them

3) The Unit of angular momentum in SI system is
   A. \( JS^{-1} \)
   B. \( JS \)
   C. \( N_s \)
   D. \( N_s^{-1} \)
Instructions for Applicants:

1. The applicants are encouraged to read the following information before filling up the Admission Form carefully and avoid overwriting.

2. The applicant either male or female, who fulfills the requirements prescribed by the University and conditions mentioned in the prospectus, is eligible to apply for admission.

3. The selection of applicant shall be on merit, determined on the basis of marks obtained in the last examination, entry test and such other criteria as University may determine.

4. Application for admission must be made on the prescribed form annexed to the Prospectus which may be obtained from Admission Office on payment of Rs.1500/- during office hours. An applicant can also download the Admission Form from the University website and send it through courier. In such cases, he or she will send a bank draft of Rs. 1700/- in favor of “The University of Lahore”. The foreign applicants will send a bank draft of US$ 25/-.

5. An applicant can apply in four degree programs at a time. However, he or she will be charged Rs. 300/- per choice excluding the first one.

6. Certified photocopies of the following documents are required to be attached with the Admission Form:
   a) 02 colored passport size photographs
   b) Matric, Inter, Bachelor and Master degrees
   c) CNIC card of the applicant of Form B of the father

7. Don’t attach Domicile, Character and Hope Certificate with Admission Form.

8. In case, an applicant does not have certified copies of the required documents, the same may be attested by University Admission Officer on submission of the original documents.

9. The Admission Form must be filled and signed by the applicant.

10. Applicants awaiting final exam result or those who have appeared in supplementary exam are eligible to apply for admission. However, in such cases, they will be deprived of qualification weightage and will be purely evaluated on the basis of their test score.

11. The applicants bearing O-Level, A-Level qualification or equivalent are required to submit their IBCC Equivalence Certificate in order to determine their eligibility. If an applicant fails to produce the same, he or she will not be given qualification weightage.
12. The foreign applicants are required to attach the following additional documents with the Admission Form:

a) Proof of Citizenship  
b) Copy of Passport  
c) Copy of Visa  
d) Visa issuance and expiry proof  
e) Copy of ID card

13. Please mention your mailing address clearly.

14. In order to get admission in MS/M.Phil. Programs, the applicants are required to qualify UOL Entrance Test, Interview or both. The successful applicants will have to qualify NTS test after admission as per policy of HEC. If they fail to do the needful, they will not be issued degree and final transcript. For admission in Ph.D., GRE (subject) test is mandatory.

15. The UOL offers female hostel. The rent per room is Rs. 10,000-12,000/- per month. The University transport is available throughout the Lahore City.

16. All admissions are granted on “Provisional” basis. It is the sole responsibility of the selected applicants to provide proof of their eligibility within 3 weeks of the declaration of the result failing which their admission will be cancelled.

17. The applicants are strongly encouraged to take special care of the fee deadlines otherwise he or she will be deprived of admission.

18. In order to avoid any inconvenience, please submit your Admission Form before the admission closing date.

19. The University is authorized to amend its rules including fee any time without prior intimation.

20. The University has not authorized any publisher or person for preparation of its Entrance Tests. So please beware of such elements.

21. Incomplete Admission Forms will be rejected. Documents once submitted are non-returnable.