UNIVERSITY OF KARACHI
EVENING PROGRAM ADMISSIONS - 2015

(Computer Science (BSCS/BSSE) and Applied Physics)
Bachelors Programs Paper Distribution for Entry Test
(will be held on 18-Jan.-2015)

There will be no Optional part

<table>
<thead>
<tr>
<th>Subject</th>
<th>Weightage</th>
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<tbody>
<tr>
<td>1. English</td>
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<td>2. General Knowledge</td>
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<td>3. Physics</td>
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<td>4. Mathematics</td>
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E N G L I S H

Complete the sentences by choosing the most appropriate word, from the given lettered choices (A to D) below each.

1. Ahmad always seeks _____ wealth.
   A. from
   B. with
   C. to
   D. for

Each question below consists of a related pair of words, followed by five lettered pairs of words. Select the lettered pair that best expresses a relationship similar to that expressed in the original pair.

2. PAGE: BOOK::
   A. sailors: crew
   B. petal: flower
   C. leaf: stalk
   D. singers: chorus

Choose the lettered word or phrase that is most nearly opposite in meaning to the word in capital letters.

3. PARTICULAR:
   A. general
   B. widespread
   C. diffused
   D. common

Choose the word most similar in meaning to the capitalized ones.

4. CHANGE:
   A. alter
   B. church
   C. complete
   D. decide
   E. agree
Read the passage to answer questions 5-6

The vast multitude of stars are wandering about in space. A few form groups which journey in company, but the majority are solitary travelers. And they travel through a universe so spacious that it is an event of almost unimaginable rarity for a star to come anywhere near to another star. For the most part each voyages in splendid isolation, like a ship on an empty ocean. In a scale model in which the stars are ships, the average ship will be well over a million miles from its nearest neighbor, whence it is easy to understand why a ship seldom finds another within hailing distance.

5. Which of the following is incorrect according to the passage?
   A. Most of the stars travel in isolation
   B. The universe is very large
   C. A star very frequently comes near to another one
   D. A star very rarely comes near to another one
   E. Some stars travel in groups

6. In the passage the “ship” symbolizes:
   A. space
   B. traveler
   C. universe
   D. ocean
   E. star

GENERAL KNOWLEDGE

7. If $4 \times 5 = 1620$, $3 \times 8 = 924$ then $7 \times 6 =$?
   A. 1740
   B. 1880
   C. 4949
   D. 4942

8. A father is 5 times as old as his son. In 18 years, the father will be twice as old as his son. How old is the father at present?
   A. 20 years
   B. 30 years
   C. 50 years
   D. 40 years

9. When was Sui Gas first discovered in Pakistan?
   A. 1959
   B. 1952
   C. 1981
   D. 1989

10. Sun is a(n):
    A. star
    B. asteroid
    C. planet
    D. satellite
PHYSICS

11. Which of the following quantities is a scalar?
   A. magnetic moment
   B. acceleration due to gravity
   C. electric field
   D. electrostatic potential

12. A particle is projected at an angle of 45° with a velocity of 9.8 ms⁻¹. 
The horizontal range will be:
   A. 9.8 / 2m
   B. 9.8 2m
   C. 9.8m
   D. 4.9m

MATHS

13. If \( \cos \theta + \sin \theta = \sqrt{2} \cos \theta \), then \( \cos \theta - \sin \theta = ? \)

   A. \( \sqrt{2} \sin \theta \)
   B. \( \frac{1}{\sqrt{2}} \cos \theta \)
   C. \( \frac{1}{\sqrt{2}} \sin \theta \)
   D. None of the above

14. The probability of getting the product a perfect square (square of a natural number), when two dice are thrown together, is:

   A. \( \frac{2}{9} \)
   B. \( \frac{4}{9} \)
   C. \( \frac{1}{3} \)
   D. 5
HOW TO FILL THE ANSWER SHEET?

One page printed Answer Sheet is provided to answer the questions. USE ONLY BALL PEN (BLACK/BLUE) TO SHADE/FILL THE CIRCLES.

How to fill an Answer: Answer sheet contains five circles containing five options of answer for one question, containing alphabets from A to E inside, against each question number. The candidate has to completely shade/fill one circle that s/he thinks is correct. For example the candidate feels that the correct answer of the given question is ‘A’, then s/he may shade/fill the circle containing alphabet ‘A’ with ball pen like this:

“A” Filled

Incorrect Filling:

Personal Data on Answer Sheet

The Answer Sheet contains personal data of candidate on the top of the sheet. It has candidates’ NAME, FATHER NAME and ROLL NO. The candidate is required to critically check these fields and sign in the required space. If any field of personal information is found in-correct the candidate MUST inform the invigilator present around.

Write down your Question booklet No. given on the right top corner of the Question booklet in the column of “Question book No”.

Fill the circle “color of your question book”. Fill the right circle otherwise you will confuse the marking process which can have negative effects.
ANSWER KEY

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<th>Q. NUMBER</th>
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