

Daffodil International University
Faculty of Science and Information Technology
Department of Computer Science & Engineering
Midterm Examination
Program: B.Sc. in Computer Science & Engineering
Semester: Spring 2019
Course Code: ENG 113
Course Title: Basic Functional English and English Spoken
Course Teacher with Initial: Dipty Rahman (DR)

Time: 1 Hour

Total Marks: 25

Part-A
Reading, Writing and Grammar Test

A. Read the passage carefully and answer the following questions:

The year was 2081, and everybody was finally equal. They weren't only equal before God and the law. They were equal every way. Nobody was smarter than anybody else. Nobody was better looking than anybody else. Nobody was stronger or quicker than anybody else. (All this equality was due to the 211th, 212th, and 213th Amendments to the Constitution, and to the unceasing vigilance of agents of the United States Handicapper General.)

Some things about living still weren't quite right, though. April for instance, still drove people crazy by not being springtime. And it was in that clammy month that the H-G men took George and Hazel Bergeron's fourteen-year-old son, Harrison, away.

It was tragic, all right, but George and Hazel couldn't think about it very hard. Hazel had a perfectly average intelligence, which meant she couldn't think about anything except in short bursts. And George, while his intelligence was way above normal, had a little mental handicap radio in his ear. He was required by law to wear it at all times. It was tuned to a government transmitter. Every twenty seconds or so, the transmitter would send out some sharp noise to keep people like George from taking unfair advantage of their brains.

- | | |
|---|---|
| 1. How did equality become possible? | 2 |
| 2. Why did the couple fail to think about the tragedy hard? | 2 |

B. Choose the right form of verbs in the gaps below:

0.5 x 7 = 3.5

1. None of the boys..... (have/has) done the sum.
2. No news (is/are) absolutely good news.
3. Iron as well copper (is/are) found in India
4. 'The Arabian Nights' (have/has) Delighted many generations.
5. A number of boys.....(are/is) found copying.

6. Neither life nor property..... (remain/remains) forever.
7. You are the man who..... (have/has) done this.

C. Complete the sentences with appropriate prepositions:

$$0.5 \times 7 = 3.5$$

1. He is absent school.
2. You can rely.....him.
3. She waited....the patient.
4. She is junior him.
5. She is familiar.....my parents.
6. The man is eligiblethe post.
7. He is not fit..... the job.

D. Write a paragraph on any one of the following topics within 150 words:

4

One mistake you do not want to repeat in your life.

Or

The most interesting person you have ever met

Part-B

Listening and Speaking tests

Time=1 hour

Marks=10

(Note: Listening-05 marks and Speaking-05 marks will be conducted by the course teacher in the lab classes)



Daffodil International University

Department of Computer Science and Engineering

Faculty of Science and Information Technology

Midterm Examination, Semester: Spring-2019

Course Title: History of the Emergence of Bangladesh and Bangla Language

Course Code: GED111, Level and Term: LFT1

Section: All, Course Teacher: All

Time: 1.5 Hours

Full Marks: 25

১। এক কথায় উত্তর দাও (যে কোন পাঁচটি)

৫×১ = ৫

[1. Answer in a word (any five)]

[5×1 = 5]

(ক) প্রাচীন বাংলার দু'টি জনপদের নাম লিখ।

[(a) Write down the name of two Janapadas of Ancient Bengal.]

(খ) প্রাচীন বাংলার প্রথম স্বাধীন রাজা কে?

[(b) Who was the first independent king of Ancient Bengal?]

(গ) বাংলায় মুসলিম শাসনের সূচনা করেন কে?

[(c) Who first introduced Muslim rule in Bengal?]

(ঘ) ফরায়েজী আন্দোলনের নেতা কে ছিলেন?

[(d) Who was the leader of Faraizi Movement?]

(ঙ) মুসলিম লীগ কত সালে প্রতিষ্ঠিত হয়?

[(e) When was Muslim league formed?]

(চ) লাহোর প্রস্তাব কে উত্থাপন করেন?

[(f) Who proposed the Lahore Resolution?]

২। নিচের যে কোন চারটি প্রশ্নের সংক্ষেপে উত্তর দাও

৪×৫ = ২০

[2. Answer any four from the following questions in short.]

[4×5 = 20]

(ক) পলাশীর যুদ্ধের কারণ ও ফলাফল বর্ণনা কর।

[(a) Describe the causes and consequences of the Battle of Plassey.]

(খ) বাংলার ইতিহাসে তিতুমীরের সংগ্রামের গুরুত্ব সম্পর্কে লিখ।

[(b) Write down the importance of the struggle of Titumir in the history of Bengal.]

(গ) ১৯০৫ সালের বঙ্গভঙ্গের কারণ ও ফলাফল উল্লেখ কর।

[(c) Mention the causes and consequences of the Partition of Bengal in 1905.]

(ঘ) লাহোর প্রস্তাবের মূল বিষয় এবং তাৎপর্য আলোচনা কর।

[(d) Describe the main concept and importance of the Lahore Resolution.]

(ঙ) বাংলাদেশের ইতিহাসে ভাষা আন্দোলনের গুরুত্ব পর্যালোচনা কর।

[(e) Discuss the importance of Language Movement in the history of Bangladesh.]



Daffodil International University
Department of Computer Science and Engineering
Faculty of Science and Information Technology

Midterm Examination SPRING 2019

Course Code: CSE112 Course Title: Computer Fundamentals
Level : 1 Term: 1 Section: ALL

Instructor: ALL

Time: 1 hr 30 minutes [answer all questions]

Full Marks: 25

Part-A: Analytical:

Choose the right option and write the reason in the answer script

[6 X 1.5 = 9]

- (1) The computer that processes both analog and digital data is called-
a) Analog Computer b) Digital Computer c) Hybrid Computer d) Mainframe Computer
- (2) Which unit holds data permanently-
a) Input Unit b) Secondary Storage Unit c) Output Unit d) Primary Storage Unit
- (3) Which of the following is not a programming language-
a) MS-Excel b) BASIC c) COBOL d) C++
- (4) Which of the following is not an operating system?
a) DOS b) Linux c) Windows d) Oracle
- (5) Operating System is a-
a) System Software b) Application Software c) Presentation Software d) Utility Software
- (6) Dot Matrix is a type of
a) Tape b) Printer c) Disk d) Bus

Part-B: Number System Conversion

[1 X 8 = 8]

- (a) Convert the binary number 1101101111110101 to hex.
- (b) Convert the hex number ABC7 to binary.
- (c) Convert the binary number 110100110110001 to octal.
- (d) Convert 4.47 to binary. (decimal)
- (e) Convert the decimal number 123 into binary.
- (f) Convert the octal number 176 to hexadecimal.
- (g) Convert the binary number 10110 to decimal.
- (h) Convert the hex number ABC to Octal.

Part-C: Number System Arithmetic

[1+1+1+2]

- (a) $1010 + 1101$
- (b) $1111 - 1010$
- (c) In hex, $2BFC + 54A7$.
- (d) Represent the following decimal in eight bit two's complement and do the addition, convert your answer back to decimal:

$$+5 + ^{-}7 \quad (5 - 7)_2$$

Part-D: Imagination

[3]

*As a Computer Scientist, suddenly you came across a **social problem** which needs usage of **your computing skills** for the solution of the problem. If the problem is solved, this will bring huge opportunities to the users facing the problem. But you discovered that **you do not have that skills needed to solve the problem**. It is very important that the problem is solved.*

Think about this and write your plan on how to address this problem.

----- Good Luck -----



Polar
Radicals
Surd's

Daffodil International University

Department of CSE

Faculty of Science & Information Technology

Semester Mid -Term Examination, Spring' 2019

Course Code: MAT-111

Course Title: Basic Mathematics

Level/Term: LIT1

Sections: All

Course Teacher: All

Time: 1.5 Hours

Total Marks: 25

Answer any five from the following six questions.

Q.1 (a) Write down the classification of number System. 2+3
(b) Find the prime factorization of 1620 using division Method and Tree diagram.

Q.2 (a) What is the difference between Factor and Divisor. 1+4
(b) Find the all factors of 1728.

Q.3 (a) What is represented by the conjugate of a complex number? 1+4
(b) Find the polar & exponential form of the complex number $z = 1 + \cos\alpha + i \sin\alpha$.

Q.4 (a) What is meant by Radicals & Surds. 1+2+2
(b) Using Factorization method find the cube root of 2744.
(c) Find the value of a & b if $a + b\sqrt{6} = \frac{7\sqrt{3} - 5\sqrt{2}}{\sqrt{48} + \sqrt{18}}$.

Q.5 (a) Find the value of $\frac{1}{\log_{xy}(xyz)} + \frac{1}{\log_{yz}(xyz)} + \frac{1}{\log_{zx}(xyz)}$. 3+3
(b) Solve $\frac{3x+4}{x+1} \leq 2$

Q.6 (a) Find the decomposition of $\frac{2x+1}{(x-1)(x^2-5x+6)}$. 3+3
(b) Solve the equation $2x^3 - x^2 - 22x - 24 = 0$ having that the roots are in the ratio of 3:4.