

အဆင့်မြင့်သိပ္ပန်နည်းပညာဦးစီးဌာန

ကွန်ပျူဗာတာတွေသိလ်

ပထမနှစ် B.C.Sc./ B.C.Tech. (၂၀၁၂-၂၀၁၃)

ပထမနှစ်ဝက်ဘမေးဂွဲ (မြန်မာစာ)

ခွင့်ပြုချိန် (၃) နာရီ

အားလုံးပြောပါ။

၁။ (က) အောက်ပါတိအနက် (၂) ခုကိုဖြောပါ။

ပေါင်းစပ်ပုံ။ ဉာဏ်းသီး၊ အကုစကားလုံး။

(ခ) အကွဲရာစဉ်ပါ။

သခံမြေးကျောင်း၊ အရှိန်အဟန်၊ ခြင်းချက်၊ အဖြစ်သည်း၊ သင်းပုံး၊ ခြွှေ့ဆွဲ၊ ဂေါ်စိတ်၊
သင်ခန်းစာ၊ အရိပ်အယောင်၊ ဂေါ်ဝန်ဆိပ်၊ သစ်ကြားသီး၊ ချွှတ်စွဲတူ၊ ဂေါ်သဇ်၊
သစ္စာပန်း၊ အပိုးသတ်၊ ခွဲပျော်၊ ဂန္ဓာရုံ၊ ချွှတ်ယွင်း၊ အပိုးကျိုး၊ ဂိုဏ်းချုပ်။

၂။ အောက်ပါ(၁) ခုကို ဆွဲးနွေးတင်ပြပါ။

(က) နောင်ရှိးတိုက်ပွဲမှ ဘုရင်နောင်၏ စီမံဆောင်ရွက်ချက်

(ခ) ဆရာတာက်တိုး၏ စာဖတ်နည်း

၃။ အောက်ပါ(၁) ခုကို ဆွဲးနွေးတင်ပြပါ။

(က) ယုဝါဒထူးမျိုးမှ လူမှုဆက်ဆံရေးနည်းပညာ

(ခ) သာသည့်မြေသို့မှ ငွေတာရီ၏ နိုင်ငံချစ်စိတ်

၄။ အောက်ပါ(၁) ခုကို အရေးအဖွဲ့ကိုတင်ပြပါ။

(က) သိကြားလိပ်တေးထပ်မှ ဦးပညာ၏ အရေးစွမ်းရည်

(ခ) လမ်းအခွင့် စကားပြေ အရေးအသား

အောက်ပါ(၁) ခုကို စီကုံး တင်ပြပါ။

(က) တွေ့သိလ်တင်ချက် အမျိုး၊ အမျိုးသားစိတ်ပေါက်မှ မျိုးချစ်စိတ်ပေါက်သို့

(ခ) ကျောင်းသားလူငယ်နှင့် ကိုယ်ကျင့်တရား

MINISTRY OF SCIENCE AND TECHNOLOGY
THE DEPARTMENT OF ADVANCED SCIENCE AND TECHNOLOGY
UNIVERSITIES OF COMPUTER STUDIES
FIRST SEMESTER EXAMINATION
FIRST YEAR
MARCH 2013

Answer all questions.

ENGLISH

Time allowed: 3 hours

QUESTION-I

- A It was a giant leap for the tourist industry and the most expensive holiday in history. When Dennis Tito, a 60-year-old Californian, blasted off yesterday he was burning money at the rate of £ 30,000 a mile. The international Space Station, with which he docks tomorrow, orbits 220 miles above the Earth and the 8-day excursion is costing him £ 14m.
- B A first class return tick from London to New York in an aircraft or aboard the QE2 costs a mere £ 1 a mile, measured in a straight line.
- C The Soyez rocket with Tito on board ascended from the launchpad of the Baikonur Cosmodrome on the barren steppes of Kazakhstan in central Asia under sunny blue skies. A television monitor showed Tito in a white spacesuit and plexiglass helmet, grinning broadly.
- D A ground controller asked "How do you feel?" 'Khorosho (good)' Tito replied in Russian.
- E American and Russian space officials had argued whether it was safe for Tito to board the space station, with NASA relenting only after he had agreed not to sue if anything went wrong, and to sleep only in Russian sections of the craft.
- F He has been allowed only 7Kg of luggage, a Dictaphone, two pens designed to work in zero gravity, three cameras and nine CDs – among them songs from the Beatles and Andrea Bocelli, the blind Italian tenor.
- G As the surge of power took him skyward, Tito must have cared little. Amateurs have flown in space before – among them three congressmen and a Saudi prince – but he was floating into history as the first paying tourist.
- H The final countdown began at 3 am Moscow time, when Tito and his companions, Talgat Musabayev, the flight commander, and Yuri Baturin, a former politician who became a cosmonaut three years ago, were awoken at their hostel.
- I A team of doctors washed the crew with a special alcohol lotion before they dressed in disinfected long johns and ordinary uniforms for breakfast and a final meeting with relatives. About 25 family members, including two sons and a daughter, as well as business partners, friends, and Suzanne, his former wife, travelled to Kazakhstan to bid Tito farewell.
- J After a -40 minute ride to the test centre, he was fitted with his cosmonaut suit. In keeping with superstition, the spacemen were not allowed to watch the setting up of the booster rocket. Instead, they performed their own bizarre ritual, a ceremonial urination on the tyres of the minibus that took them to launchpad – the same one from which Yuri Gagarin became the first man in space.
- K In space, Tito will be sustained by Russian soups, juice, tea and coffee, all in toothpaste-like tubes, fruit and ready cooked vegetables as well as canned meats. "I do miss a good hamburger," he said.
- L He is unlikely to miss the gruelling physical requirements of securing his place in the annals. Zero gravity flights and head spinning sessions in a centrifuge – creating gravitational forces eight times those on Earth – might have been enough to deter lesser citizens. Tito never lost consciousness and was said by trainers to have been an exemplary student.
- M "I'm not a professional astronaut." he said, "but I'm as dedicated to the mission as any astronaut would be."

Questions 1 – 5

Do these statements agree with the information in the article?
Write :

TRUE

if the statement is true according to the passage

FALSE

if the statement is false according to the passage

DOES NOT SAY

if the information is not given in the passage

1. The weather on the day of the launch was good.
2. Tito slept in a specially designed Russian sleeping bag.
3. Tito was the first non professional astronaut in space.
4. The rocket was launched at 3 am Moscow time.
5. Tito did not enjoy wearing his cosmonaut's suit.

Questions 6 – 10

Answer these questions using NO MORE THAN THREE WORDS OR A NUMBER.

1. What did doctors set to wash the crew?
2. Who is Suzanne?
3. How long did it take to get to the test centre?
4. What will liquids be kept in?
5. How long will it take for Tito in space?

QUESTION- II

Look at the subject-verb agreement in each of these sentences. Is it correct or incorrect? Rewrite the incorrect sentences.

1. Nobody seem to enjoy travelling to work by train.
2. One of my sisters drives a sports car.
3. Much of my work involves visiting different companies.
4. Most people in my country owns a car.
5. Some of the students in my class cycle to college.
6. Neither of us travels on public transport much.
7. None of the cars was stopped by the police.
8. A lot of my time is spent driving to and fro work.
9. Car users in Britain pays high motoring taxes.
10. Only ten percent of our fares are subsidized.

QUESTION- III

Rewrite the following sentences using You should / shouldn't or It's a good/ bad idea to.

1. Don't open the monitor. It is dangerous.
2. Don't stare at the screen for long periods of time.
3. Position the monitor at eye level or just below.
4. Leave enough space behind the monitor for unobstructed movement.
5. Don't sit near the sides or back of CRT monitors.
6. Keep the screen clean to prevent distorting shadows.
7. Don't put your monitor in front of a window.
8. Have a monitor with a tilt-and -swivel stand.
9. Don't use a monitor that is fuzzy or distorts the image.
10. Please look down at the monitor, not up.

QUESTION- IV

(A) Match the verbs with the nouns to make common collocations.

- | | |
|-------------|-----------------|
| 1. make | a. information |
| 2. store | b. ringtones |
| 3. keep | c. video calls |
| 4. access | d. records |
| 5. download | e. the Internet |

(B) Use the collocations from (A) to complete these sentences.

1. They use a database to ----- of customers, suppliers and orders.
2. Using the built-in camera, you can ----- to other 3G mobile phones and see yourself and the person you're talking to on the screen.
3. I ----- using Wi-Fi when I'm travelling.
4. Windows and Mac OS both use different formats to ----- on disk.
5. Most mobile phones allow you to ----- music and wallpapers.

QUESTION- V

Complete these sentences with the comparative and superlative forms of the adjectives in brackets.

1. Always buy the (fast)..... scanner with the (high)..... resolution you can afford.
2. They have created the (revolutionary)..... camera to date.
3. FotoFinish is the (easy)..... photo editing software for your digital camera.
4. A laser printer is generally (quiet)..... than a low-cost inkjet printer.
5. An imagesetter is (heavy)..... than a laser printer.
6. Multi-function printers are now only slightly (expensive)..... than conventional printers, and offer much (great)..... versatility.
7. This scanner gives you the (good)..... scans with the (little)..... effort.

QUESTION- VI

Write an ESSAY for the following topic. Write at least 250 words.

"Academic achievement at school or university is the only true measure of a person's intelligence."

To what extent do you agree with this statement? Use your own ideas and experience and support your arguments with examples.

THE END

Department of Advanced Science and Technology

University of Computer Studies

First Year B.C.Sc. /B.C.Tech.

PHYSICS

Mid-Term Examination

2013

Answer ALL questions.

Time allowed: 3 hours

1. (a) What is *frictional force*? What do you understand the *static friction* and *kinetic friction*?

The coefficient of static friction between a block and a horizontal floor is 0.4, while the coefficient of kinetic friction is 0.15. The mass of the block is 5 kg. If a horizontal force is slowly increased until it is barely enough to make the block start moving, what is the net force on the block the instant that it starts to slide?

- (b) What do you understand the *net force* of the system? If an object in *translational equilibrium*, how much the net force acting on it?

An airplane is cruising along in a horizontal level flight at a constant velocity, heading due west. If the weight of the plane is 3×10^4 N, what force does the air push upward on the plane? Is the plane in equilibrium? If so, what kind of equilibrium?

2. (a) Define the following terms:

- (i) Acceleration
(ii) Average Acceleration
(iii) Instantaneous Acceleration

What are the different physical properties of *mass* and *weight*?

- (b) In Figure 1, two blocks are connected by a massless, flexible cord that does not stretch; the cord passes over a massless, frictionless pulley. If the masses are $m_1 = 26$ kg and $m_2 = 42$ kg, what are the accelerations of each block and the tension in the cord?

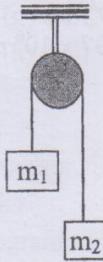


Figure 1.

3. (a) Define the mathematical expressions of the terms: *average velocity* and *average acceleration*.

An inline skater is traveling on a level road with a speed of 8.94 m/s. Then she comes to a long hill at 15° angle of incline, 120 s later she is still climbing the hill while her speed has decreased to 7.15 m/s. (i) What is the change in her velocity? (ii) What is her average acceleration during the 120 s time interval?

- (b) A brick of mass 1 kg slides down an icy roof inclined at 30° with respect to the horizontal. If the brick starts from rest 2 m from the edge of the roof, how fast is it moving at the edge? Ignore friction.

Department of Advanced Science and Technology

University of Computer Studies

B.C.Sc / B.C.Tech. (First Year)

1CST- 101 (Introduction to Computer System)

First Term Examination

March 2013

Answer All questions.

Time allowed : 3 hours.

1. Define the followings terms:

- | | |
|--------------------------|--------------|
| (a) Latency | (f) firmware |
| (b) Optical disk | (g) MICR |
| (c) Register | (h) Linker |
| (d) Input interface | (i) MAR |
| (e) Mass storage devices | (j) Cylinder |

2. Differentiate Any THREE of the following:

- (a) Memory read and write operations
- (b) Input and output devices
- (c) Application software and system software
- (d) Primary and secondary memory

3. Write the full form of the following abbreviations used in computer terminology.

- | | |
|------------|-----------|
| (a) UNIVAC | (e) ASCII |
| (b) EDSAC | (f) UTF |
| (c) VLSI | (g) ABC |
| (d) EBCDIC | (h) GUI |

4. Answer Any FIVE of the following:

- (a) Write short notes on multicore processor.
- (b) Describe limitations of optical disks.
- (c) List the characteristics of good programming language.
- (d) Explain five basic operations performed by any computer system.
- (e) Briefly describe the functions of various registers.
- (f) What is point and draw devices?
- (g) What is an interpreter?

5. (a) Carry out the following conversions.

- | | | |
|--------------------------------|----|--------------------------|
| (i) 453.45 ₈ | -> | () ₂ |
| (ii) 2573 ₆ | -> | () ₁₀ |
| (iii) 10110001100 ₂ | -> | () ₈ |
| (iv) 1694 ₁₀ | -> | () ₈ |
| (v) 247.65 ₈ | -> | () ₁₀ |

(b) Calculate the followings:

- (i) Subtract 234_{10} from 588_{10} using complementary method.
- (ii) Divide the binary number 0110111 by 0111 .
- (iii) Multiply the binary number $101111 * 111$
- (iv) $1101_2 - 10011_2$
- (v) Complement of 6_8

6. (a) A computer has 128 GB of memory. How many characters can be stored in its memory?

(b) A disk pack has 10 disk plates, 2655 tracks per plate, 125 sectors per track, 512 bytes per sector. What is the storage capacity of magnetic disk?

(c) A tape having data recording density of 77000 bpi and its drive having a tape speed of 100 inches per second. What is the data transfer rate of magnetic tape?

(d) How many bytes will be required to store the word 'MULTIPLICATION' in character addressable and word addressable computer having word length of 32 bits?

7. (a) Write 4 bit BCD code for the following number 1024_{10}

(b) Using hexadecimal notation, write zoned decimal coding and packed decimal coding for the following numbers. How many bytes are required to store in zoned decimal coding and packed decimal coding?

- (i) +9876
- (ii) -12915

(c) A disk pack has 20 surfaces and 400 tracks on each surface. How many cylinders are there in this disk pack?

(d) A computer uses EBCDIC as its internal representation of characters. In which order will this computer sort the string?

23,X1, x2, 2X,21,Yz, 2MEN, 12, 1A

Department of Advanced Science and Technology
University of Computer Studies
B.C.Sc./B.C.Tech. (First Year)
Mid Term Examination
Mathematics of Computing I (CST-102)
April, 2013

Answer ALL Questions.

Time Allowed: 3 hours.

- 1.(a) In the following, write formulas for $f \circ g$ and $g \circ f$ and find the domain and range of each.

$$f(x) = \sqrt{x+1}, g(x) = \frac{1}{x}.$$

- (b) Graph the function $f(x) = \cos \pi x$. What is its period?

2.(a) Find the limit in (i) $\lim_{h \rightarrow 0} \frac{3}{\sqrt{3h+1}+1}$ (ii) $\lim_{h \rightarrow 0^-} \frac{\sqrt{6}-\sqrt{5h^2+11h+6}}{h}$.

- (b) For what value of a is $f(x) = \begin{cases} x^2 - 1, & x < 3 \\ 2ax, & x \geq 3 \end{cases}$ continuous at every x?

- (c) Find the linearization $L(x)$ of $f(x) = \sqrt{x^2 + 9}$ at $x = a = -4$.

3. Find the derivatives of (i) $y = \frac{5x+1}{2\sqrt{x}}$ (ii) $y = x^2 \sin x + 2x \cos x - 2 \sin x$

(iii) $y = x^2 \sin^4 x + x \cos^{-2} x$ (iv) $2\sqrt{y} = x - y$

4. Graph the function $f(x) = x^2 - 1$. On $-1 \leq x \leq 2$, Find the absolute maximum and minimum values of the function and find the value of c by means of the Mean Value Theorem. Then find the average value of the function over $[0, \sqrt{3}]$.

- 5.(a) Find the total area of the region between the x-axis and the graph of $y = -x^2 - 2x$, $-3 \leq x \leq 2$.

(b) Evaluate (i) $(\sum_{k=1}^7 k)^2 - \sum_{k=1}^7 \frac{k^3}{4}$ (ii) $\int \frac{x}{(x-4)^3} dx$ (iii) $\int_0^1 \frac{10\sqrt{x}}{(1+x^{3/2})^2} dx$

Department of Advanced Science and Technology
University of Computer Studies
B.C.Sc./B.C.Tech. First Year, Mid Term Examination
CST-103 Computer Application Techniques I

April, 2013

Answer All Questions.

Time allowed 3 hours.

1(a). Write short notes on the followings:

- i. Voice processing
- ii. Office as a place
- iii. Advantages of E-Mail
- iv. Benefit of OA
- v. Computer Conferencing

(b). Explain briefly:

- i. Telnet
- ii. Advantages and Disadvantages of Internet
- iii. World Wide Web and Web Browser
- iv. Domain name system and IP address
- v. FTP

2. (a). Create an HTML page with following:

Background color is pink color.

Type the following.

- D. Keyboard
- E. Hard Disks
- F. Monitors

Type the following paragraph with small text and Arial.

"A web service is an interoperable unit of application logic that transcends programming languages, operating systems, network communication protocols, and data representation dependencies and issues."

Insert an image (desert.jpg, width and height 100 pixels each). This image uses image map.(Circle shape, 60,60,30 coordinates, blank target and links to coffee.html). Map name is gallery.

Type heading "WSDL" with level 2 heading style and right align.

Type the following paragraph with Big text, right align and green color.

"WSDL is used to describe a web service, to specify its location, and to describe the operations the service provider."

Type the following paragraph with bold type, italic style, largest size and arial.

"JAX-WS provides facilities of XML-based message exchanging mechanism over the web services."

To link the email address happysmile@example.com, when user clicks the HAPPY.

Create the following.

HTML

Hypertext Markup Language is a computer code used to create web pages.
Hyper Text

Web pages are hypertext documents.
Type the following text with given format.

This text is using cite.

This text is using strong.

This text is using strike.

Create the horizontal line with blue color.

2.(b). Create an HTML page with following **LIST**.

o Menu

A. Tea

- B. Black Tea
- C. Green Tea
- D. Tea Mix
- R. Roya Myanmar
- S. Super Lemon

B. Coffee

■ Coffeemix

- i. Milkco
- ii. Rich
- iii. Birthday

3.(a). Create an HTML page with following **TABLE**.

Arrow Super Market			
		Computer	Printer
		Television	DVD
Price (You can click the following.)			
comp.html			
printer.html			
tv.html			
dvd.html			

Remark: Links use comp.html, printer.html, tv.html and dvd.html. Images use flower.jpg and tree.jpg.

(b). Create an HTML page with following **FORM**.

Welcome To My Music Page



Name

Email

Password

Types of Album

Pop

Pop

Rock

Rap

Radio

Artists

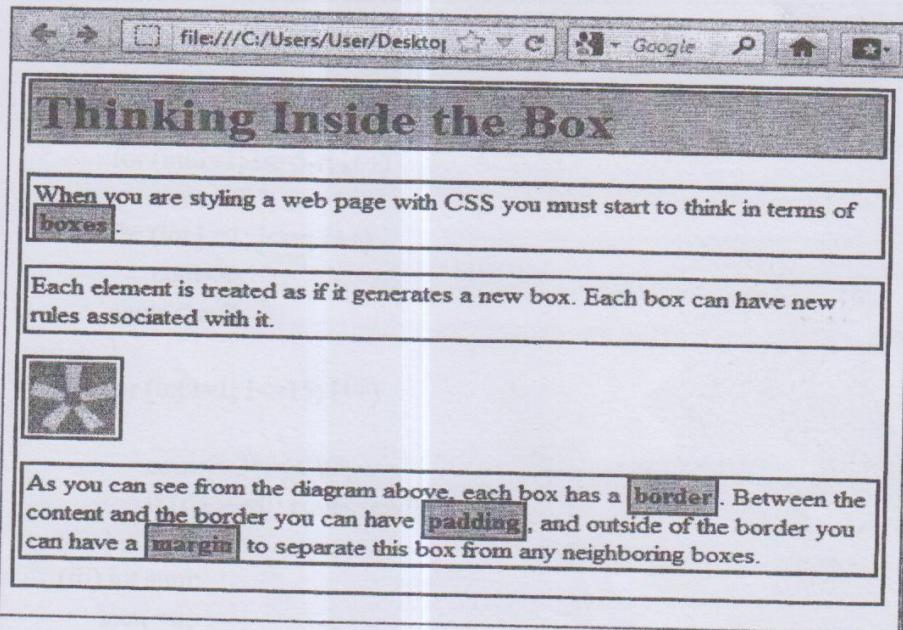
Male Female Couple Group

Do you want to listen some music? Click the following.

[Listen to Sample](#)

Remark: Link uses sample.html. Image uses desert.jpg.

- 4(a) Create a file called boxmodel.css that will specify the following CSS rules:
- Specify the background color of page to white. The text display with 12 pixels size, times, times news roman or serif font type and black color.
 - Create a CSS rule to specify the box with a 2 pixels black solid line. It has a padding 2 pixels and left and right margin 2 pixels. It can apply to whole page, heading style 1, paragraph, image and bold text.
 - Specify the background color of text of heading style 1 and bold to gray.
- (b) Create an html page with following design. It applies the CSS rules in tableformat.css file. (Use block.gif image file.)



5. Create an HTML page with following: (It includes CSS rules.)
- Create a CSS rule that specify the background of the web page with an image. Position the image in center of window and it fixed in this position. Use smiley.gif.
 - Create a CSS rule that specify the some text with over line style, small caps font.
 - Create a CSS rule that specify the first line of paragraph with bold.
 - Create a CSS rule that specify first letter of paragraph is font size 42 pixels.
 - Create a CSS rule that specify the list with images marker. Use bulletpoint.gif.
 - Display following paragraph. The word "typeface" display with over line style and small caps font. (Apply the above CSS rule.)
A typeface is a family of fonts, such as the Arial family.
 - Display following paragraph. The first letter is 42 pixels and the first line is bold. (Apply the above CSS rule.)
Once upon a time, there was a pseudo-class that allowed you to specify a different rule for the first letter of an element's content, and another that allowed you to specify a different rule for the whole of the first line.
 - Create following list with image bullet. (Apply the above CSS rule.)
 - Rose
 - Jasmine
 - Carnation

Department of Advanced Science and Technology
University of Computer Studies
B.C.Sc. / B.C.Tech. (First Year)
CST 104 (Basic Data Processing and C++ Programming)
First Term Examination
April 2013

Answer ANY SIX questions

Time Allowed: 3 hours

1. (a) Display the **OUTPUT** of the followings.

(i)

```
for (int r=1; r<=5; r++)
{
    for (int i=1; i<=5-r; i++)
        cout<<"-";
    for (int j=1; j<=r; j++)
        cout<<"*";
    cout<<endl;
}
```

(ii)

```
for (int i=1; i<=15; i++)
{
    cout<< 3*i<<"\t";
    if (i%5==0) cout<<endl;
}
```

(iii)

```
int sum;
sum =0;
for (int i=1; i<=10; i++)
    sum+=i;
cout<<sum;
```

- (b) Correct the statements according to both of C++ syntax and logic.

(i)

```
for (int i=0; i<=12;i--)
    cout>> 7*i >> endl;
```

(ii)

```
int a=1;
switch (a)
case 1 : cout << "One";
case 2 : cout<< "Two";
case 3 : cout << "Three";
```

(iii)

```
cout<< "Enter a character";
cin>> ch;
ch=tolower(ch);
if (ch= 'a' && ch= 'e'&& ch= 'i'&& ch= 'o'&& ch= 'u'); cout<<vowel;
else cout <<consonant.
```

2. Create a three-functions calculator for Myanmar Currency, where amounts are specified in Kyat and Pya. The calculator should allow the user to add or subtract two money amounts, to multiply a money amount by a number. (It does not make sense to multiply two money

amounts, there is no such thing as square money.) Write a program to find the result of a three functions calculator according to the user input.

3. Write a program to print the series of all the perfect numbers between the desired ranges which is entered by user. The screen output is as follow:

OUTPUT(1)

Enter minimum range 3
Enter maximum range 500
6 is perfect number.
28 is perfect number.
496 is perfect number.

OUTPUT(2)

Enter minimum range 30
Enter maximum range 300
There is no perfect number between the ranges.

4. Write a program that calculates how much money you'll end up with if you invest an amount of money at a fixed interest rate, compounded yearly. Have the user furnish the initial amount, the number of years, and the yearly interest rate in percent. Some interaction with the program might look like this:

Enter initial amount : 3000
Enter number of year : 10
Enter interest rate (percent per year) : 5.5
At the end of 10 years, you will have 5124.43 dollars.

At the end of the first year you have $3000 + (3000 * 0.055)$, which is 3165. At the end of the second year you have $3165 + (3165 * 0.055)$, which is 3339.08. Do this as many times as there are years. A for loop makes the calculation easy.

5. Write a program that finds the prime factors of user inputed number repeatedly until the user want to find next number is yes: 'y'. The iterative work stops when the user answer is no: 'n'.

The user interaction look like this:

Enter the number: 12
The prime factor is $12 = 2 * 2 * 3$
Do you want to find next (y/n)? y
Enter the number: 14
The prime factor is $14 = 2 * 7$
Do you want to find next (y/n)? n

6. (a) Write a program to create a text file named "multi.txt" and then write the multiplication table (from 1 to 16) into that file.

(b) Write a program to create a text file name "Hello.txt" and then write some text into the "Hello.txt" as follows:

Hello! Good Moring Student

Welcome to University of Computer Studies!!!

7. Draw the size a student's value of the order. The whatever

Second item drop percent to \$9.00, or until an through

8. The customer flowchart A program digits), (seven for the

A Computer contains school accept achievement of the

7. Draw the hierarchy chart and then plan the logic for a program that calculates the gown size a student needs for a graduation ceremony. The program uses three modules. The first prompts a user for and accepts the student's height in inches. The second module accepts the student's weight in pounds and converts the student's height to centimeters and weight to grams. Then, it calculates the graduation gown size needed by adding 1/3 of the weight in grams to the value of the height in centimeters. The program's output is the gown size the student should order. There are 2.54 centimeters in an inch and 453.59 grams in a pound. Use named constants whatever you think they are appropriate. The last module displays the message "End of job".

(OR)

Secondhand Rose Resale Shop is having a seven-day sale during which the price of any unsold item drops 10 percent each day. For example, an item that costs \$10.00 on the first day costs 10 percent less, or \$9.00, on the second day. On the third day, the same item is 10 percent less than \$9.00, or \$8.10. Design a pseudo code for an application that allows a user to input a price until an appropriate sentinel value is entered. Output is the price of each item on each day, one through seven.

8. The SkyNet Telephone Company charges 10 cents per minute for all calls outside the customer's area code that last over 20 minutes. All other calls are 13 cents per minute. Design a flowchart and write pseudo-code for the following:

A program that accepts the following data about one phone call: customer area code (three digits), customer phone number (seven digits), called area code (three digits), called number (seven digits) and call time in minutes. Display the calling number, called number, and price for the call.

(OR)

A Computer University contains 30 classrooms numbered 1 through 30. Each classroom can contain any number of students up to 35. Each student takes an achievement test at the end of the school year and receives a score from 0 through 100. Write a program with pseudo code that accepts data for each student in the school- student ID, classroom number, and score on the achievement test. Design a program with pseudo code that lists the total points scored for each of the 30 classrooms.
