Model Paper

GOVERNMENT COLLEGE UNIVERSITY, FAISALABAD

BA/B.Sc (Part-I) Annual 2017
Subject: Computer Studies Paper: (I)
Objective Part: Course Title: Introduction to I.T& Computer Programming
Time Allowed: 30 mints Marks: 20 Pass Marks: 33%

Note:- Question no 1 compulsory. Choose the correct options. Only one option is correct. Cutting and overwriting will be considered wrong.

Question#1 (Do all parts in this Question) (20)
1. Debug is the process of
(a) Creating Bugs (b) Identify and Removing Bugs (c) Identify Errors
(d) Removing Errors
2. Which of the following is valid assignment statement?
(a) a=100; (b) e=a+b; (c) x=-x+10; (d) All
3. Which of the following operators work with one operand
(a) Unary (b) Binary (c) Ternary (d) None
4. Which choice has the highest precedence order when computing an expression?
(a) (b) (c) * (d) /
5. What is the value of x when int x=0; and x=x+30; after execution
(a) 0 (b) 30 (c) 33 (d) None
6. Another name for keywords is
(a) Reserved words (b) Comments (c) Special words (d) None
7. -16%4 is
(a) 0 (b) 4 (c) 12 (d) -4
8. The = operator in C language indicates
(a) Assignment (b) Subtraction (c) Equality (d) None
9. Associatively is either right to left or
(a) Left to right (b) Top to Bottom (c) Back to front (d) None
10. The expression 3%5 has value equal to
(a) 3 (b) 5 (c) 0 (d) None
11. Conditional operator takes
(a) Three operands (b) Two operands (c) One operand (d) None
12. All of the followings are relational operators EXCEPT
(a) != (b) || (c) = (d) >=
13. The name for screen clarity
(a) Pixel (b) Resolution (c) Density (d) Picture quality
14. Step by step instructions that run the computer are called
(a) Hardware (b) Documents (c) CPU (d) Software
15. Which storage medium has the greatest storage capacity?
(a) CD ROM (b) Tape cartridge (c) Diskette (d) Zip disk
16. Pixel is short for
(a) Page edit (b) Place edit (c) Picture entries (d) Picture elements
17. Which of the following is not a peripheral device?
a) Speaker b) Printer c) Motherboard d) Scanner
18. A bit can represent how many different values:
(a) 0 (b) 1 (c) 2 (d) 3
19. Most applications of robotics are in which area:
a) Sciences b) Manufacturing c) Education d) Farming
20. CAL stands for
a) Computer Aided Leading b) Computer Aided Learning
c) Computer Assistant d) None
GOVERNMENT COLLEGE UNIVERSITY, FAISALABAD

BA/B.Sc (Part-I) Subject: Computer Studies
Paper: (1) Course Title: Introduction to I.T& Computer Programming
Annual 2017 Course Code: CSS-301

Subjective Part: Time Allowed: 02:30 Hours
Marks: 50
Pass Marks: 33%

Note:- This paper consists of two Sections I and II. Attempt at least two questions from each Section. All questions carry equal marks.

Section-I (Introduction to Information Technology)
Note: Attempt Two Question from each Section

Question#2
Enlist and explain the five advantages of using Internet. (12.5)

Question#3
What do you know about RAM? Briefly explain its types. (12.5)

Question#4
Bus is a term used in computer for communication of signals between different devices. Discuss types of buses and its processing relationships. (12.5)

Section-II (Computer Programming)

Question#5
What do you know about Local and global variables. Discuss briefly the scope and lifetime of the global variables during program execution in visual basic. (12.5)

Question#6
What do you know about an array? Write a program to find the largest number from an array using visual basic. (12.5)

Question#7
What is the usage of loops in programming languages? Display first ten even numbers using a loop using visual basic. (12.5)
GOVERNMENT COLLEGE UNIVERSITY, FAISALABAD

BA/B.Sc (Part-II)  Paper: (II)  Course Code: CSS-401
Subject: Computer Studies  Course Title: DBMS - Operating system & Network
Annual 2017  Marks: 20  Pass Marks: 33%

Objective Part:  Time Allowed: 30 mints

Note:- Question no 1 compulsory. Choose the correct options. Only one option is correct. Cutting and overwriting will be considered wrong.

1. Which of the following are operates on Physical Layer?
   a) Gateway  b) Repeater  c) Bridge  d) Active hub

2. In Code Division Multiple Access
   a) One channel carries all transmission independently
   b) One channel carries all transmission randomly
   c) One channel carries all transmission simultaneously
   d) None of Above

3. In _______ system the user cannot interact with the job when it is being executed
   a) Batch System  b) Virtual System  c) Multiprogramming  d) All of above

4. Which of the following is not a peripheral device?
   a) Speaker  b) Printer  c) Motherboard  d) Scanner

5. A bridge does not change the _______ in a frame
   a) IP address  b) MAC address  c) Source address  d) Destination address

6. In FHSS the bandwidth occupied by a source after spreading is
   a) B(FHSS) << B  b) B(FHSS) >> B  c) B(FHSS) = B  d) None of above

7. The end of a time slice is indicated by the occurrence of a signal called
   (a) An interrupt  (b) A semaphore  (c) A login

8. A program in execution is called
   a) Process  b) Thread  c) Event  d) All of above

9. A group of jobs that are ready to be executed is called
   a) Scheduler  b) Memory  c) Job Pool  d) None of above

10. In Barker sequence N is equal to
     a) 9  b) 10  c) 11

11. A bridge does not change the _______ in a frame
     a) IP address  b) MAC address  c) Source address  d) Destination address

12. A repeater connects _______ of a LAN.
     a) Nodes  b) Segments  c) Drives  d) None

13. Computer at home can be used for:
     a) Keeping Records  b) Making Budgets  c) Watching Movies  d) All

14. ADSL stands for
     a) Asynchronous Digital line  b) Asymmetric Dedicated Sribler Line
     c) Additional Dedicated Sribler Line  d) None of above

15. Computer at home can be used for:
     a) Keeping Records  b) Making Budgets  c) Watching Movies
     d) All

16. M different stations can use same B(35), then which modulation technique is used
     a) FSK  b) FSK(MFSK)
     c) a and b  d) FSK(BPSK)

17. A program that running all the time is known as
     a) Deadlock  b) System Call
     c) Process  d) Kernel

18. If a station needs to send 0 bit, CDMA encode this data as
     a) +1  b) -1
     c) 0  d) None of Above

19. Which of the following events is detrimental to an operating system’s performance?
     a) Deadlock  b) Interrupt
     (c) Booting

20. Pseudorandom code generator is also known as
     a) Random noise  b) Pseudorandom noise
     c) Hopping Period  d) None of above
GOVERNMENT COLLEGE UNIVERSITY, FAISALABAD

BA/B.Sc (Part-II) Annual 2017
Subject: Computer Studies Paper: (II) Course Code: CSS-401
Subjective Part: Course Title: DBMS - Operating system & Network
Time Allowed: 02:30 Hours Marks: 50
Pass Marks: 33%

Note:- This paper consists of two Sections I and II. Attempt at least two questions from each sections. All questions carry equal marks.

**Section-I (Database management System)**

**Note**: Attempt Two Question from each Section

**Question#2**
The following table represents the set of attributes found in a university database. Note that students attend one course and can take any unit during the course. A unit may be presented as part of any course and is always given by one particular lecturer. You are required to normalize this database up to third level.

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**Question#3**
What is the information system life cycle? Also discuss database application system life cycle in detail.

**Question#4**
What are the implications of the database approach?

**Section-II (Operating Systems and Networks)**

**Question#5**
(a) File system is collection of files and variety of other objects that share many of the properties of a file. Discuss directory structure in detail.
(b) Deadlock occurs when each process or a set of processes controls a resource that another process in the set has requested. What are conditions that a process must be hold for the occurrence of deadlock. Also provide suggestion for deadlock prevention. (Ch#3,P#59)

**Question#6**
(a) What do you know about TCP/IP? Briefly explain its architecture and discuss protocols operates on each level.
(b) Explain the impairments faced by signals when transferred through guided medium.

**Question#7**
Write down short note on the followings

1. Process Control Block
2. Virtual Circuit