GOVERNMENT COLLEGE UNIVERSITY, FAISALABAD

BA/B.Sc (Part-I) Annual 2017

Subject: Computer Studies Paper: <u>(I)</u> Course Code: CSS-301 Course Title: Introduction to I.T& Computer Programming

Objective Part: 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	s of				
(a) Creating Bugs	(b) Identify and	Removing Bugs	(c) Idea	ntify Errors	
(d) Removing Errors					
2. Which of the followi	ng is valid assignme	nt statement?			
(a) a=100;	(b) c=a+b;	(c) x=c-d+10;		(d) All	
3. Which of the followi	ng operators work w	ith one operand			
(a) Unary	(b) Binary	(e) Ternary		(d) None	
4. Which choice has the	e highest precedence	order when comput	ing an exp	oression?	
(a) ()	(p) -	(c) *		(d)/	
5. What is the value of	x when int x=0; and	x=x+30; after execu	ition		
(a) 0	(b) 30	(c) 33		(d) None	
6. Another name for key	ywords is				
(a) Reserved words	(b) Comments	(c) Special	words .	(d) None	
716%4 is					
(a) 0	(b) 4	(c) 12		(d) -4	
8. The = operator in C l	anguage indicates				
(a) Assignment	(b)Subtraction	(c) Equality		(d) None	
9. Associatively is either	er right to left or				
(a) Left to right	(b) Top to Bo	ttom (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 operato	or takes				
(a) Three operands	(b) Two opera	ands (c) One ope	erand	(d) None	
12. All of the following	s are relational opera	ators EXCEPT			
(a) !=	(b)	(c) =	53 01 = 12	(d)>=	
13. The name for screen	n clarity				
(a) Pixel	b) Resolution	(c) Density		(d) Picture quality	
14. Step by step instruc	tions that run the cor	nputer are called			
(a) Hardware	b) Documents	(c) CPU		(d) Software	
15. Which storage medi	um has the greatest	storage capacity?			
(a) CD ROM	b) Tape cartridge	(c) Diskette		(d) Zip disk	
16.) Pixel is short for					
(a) Page edit (1	b) Place edit	(c) Picture e	enters	(d) Picture elements	s
17. Which of the follow	ing is not a peripher	al device?			
a) Speaker b) Printer	c) Motherbo	pard	d) Scanner	
18. A bit can represent l	now many different v	values:		20 20	
a) 0 b) 1	c) 2		d) 3	
19. Most applications of	frobotics are in which				
) Manufacturing	c) Education	1	d) Farming	
20. CAL stands for		· ************************************			
a) Computer Aided Lead	ding b) Com	nputer Aided Learnin	ng		
c) Computer Assistant	_	•	_		*

GOVERNMENT COLLEGE UNIVERSITY, FAISALABAD

BA/B.Sc (Part-I)

Annual 2017

Subject: Computer Studies

Paper: (I)

Course Code: CSS-301

Subjective Part:

Course Title: Introduction to I.T& Computer Programming

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

(12.5)

Enlist and explain the five advantages of using Internet.

Question#3

(12.5)

What do you know about RAM? Briefly explain its types.

Question#4

(12.5)

Bus is a term used in computer for communication of signals between different devices. Discuss types of buses and its processing relationships.

Section-II (Computer Programming)

Question#5

(12.5)

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.

Question#6

(12.5)

What do you know about an array? Write a program to find the largest number from an array using visual basic.

Question#7

(12.5)

What is the usage of loops in programming languages? Display first ten even numbers using a loop using visual basic.

GOVERNMENT COLLEGE UNIVERSITY, FAISALABAD

BA/B.Sc (Part-II)

Annual 2017

Subject: Computer Studies Paper: (II) Course Code: CSS-401

Objective Part: Course Title: DBMS - Operating system & Network 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.

Verwriting Will be consident to the following are op	- W 2020 - COL FLAND F	ver?	
× 11			
a) Gateway	b) Repeater	c) Bridge	d) Active hub
2. In Code Division Multiple Accea) One channel carries all transmb) One channel carries all transmc) One channel carries all transm	nission independently nission randomly		
3. In system the user	cannot interact with t	he job when it is being executed	
a) Batch Systemc) Multiprogramming	b) Vi	rtual System d) All of above	
4. Which of the following is not	a peripheral device?		
a) Speaker c) Motherboard		b) Printer d) Scanner	
a au Pargassa de sala-caración de aspectación.		202	
A bridge does not change thea) IP address	e in a f	rame b) MAC address	
c) Source address		d) Destination address	
C to FUSS the bondwidth comm	and by a source after	spreading is	
In FHSS the bandwidth occupB(FHSS) << B	b) B(FHSS) >>B	c) B(FHSS) = B	
d) None of above	e) a and b	f) c only	
		6 - 1 - 1 - 1 - 1	
 The end of a time slice is indi An interrupt 	(b) A semaphore	(c) A login	
8. A program in execution is cal	led		
a) Process		b) Thread d) All of above	
c) Event		d) All of above	
9. A group of jobs that are read	y to be executed is ca		
a) Scheduler		b) Memoryd) None of above	
c) Job Pool		d) None of above	
10. In Barker sequence N is equal a) 9	b) 10	c) 11	
11. A bridge does not change the	nein a	frame	
a) IP address c) Source address	b) MAC ad		
and the same and t	The Third Control of the Control of		
a) Nodes	of a LAN. b) Segments	c) Drives	d) None
13. Computer at home can be to a) Keeping Records b) Mak		atching Movies d) Al	ř
		_,	
14. ADSL stands fora) Asynchronous Digital linec) Additional Dedicated Scriber	Line	b) Asymmetric Dedicated Scr d) None of above	iber Line
 Computer at home can be t Keeping Records 	used for:	b) Making Budgets	
c) Watching Movies		d) All	
16. M different stations can use	e same B(SS), then wh	ich modulation technique is used	ſ
a) FSK		b)FSK(MFSK)	
c) a and b		e) 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 th	is data as	
a) +1		b) -1	
c) 0	S	d) None of Above	
19. Which of the following ever (a) Deadlock	nts is detrimental to a (b)Interrupt	n operating system's performand (c) Booting	ce?
 Pseudorandom code gener Random noise 	ator is also known as	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

Ouestion#2

(12.5)

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 detabase unto third level

StdID	StdName	Course ID	Course Length	Unit Code	Unit Name	Teacher Name
201 Ali	,,,,	C203	1	U49	Database II	Ashraf
	Ali			U85	Programming	Irfan
	All	A104	4	U88	Algorithms	Naveed
				U49	Database II	Ashraf
	Saleem			U23	Business I	Rauf
203		7110.	3	U10	Business II	Abid
207		B203		U48	Database I	Zahid
209	Mazher		2	U10	Business II	Abid
				U88	Algorithms	Naveed

Question#3

(12.5)

What is the information system life cycle? Also discuss database application system life cycle in detail.

Ouestion#4

(12.5)

What are the implications of the database approach?

Section-II (Operating Systems and Networks)

Question#5

(6+6.5=12.5)

- 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

(12.5)

Write down short note on the followings

- 1. Process Control Block
- 2. Virtual Circuit