## Bangladesh Computer Council Batch-7

<ol> <li>A computer program that converts an entire program into machine language at one time is         <ul> <li>A. an interpreter</li> <li>B. a simulator</li> <li>C. a debugger</li> <li>D. a compiler</li> <li>Answer: D</li> </ul> </li> </ol>
<ul> <li>Which of the following memories need refreshing</li> <li>A. Static RAM</li> <li>B. Dynamic RAM</li> <li>C. ROM</li> <li>D. EPROM</li> <li>Answer: A</li> </ul>
3. Data encryption techniques are particularly useful for A. reducing storage requirements B. improving data integrity c. protecting data in communication systems d. All of the above Answer: C
<ul> <li>4. Which of the following memory have the shortest access time?</li> <li>A. Hard Disk</li> <li>B. Magnetic memory</li> <li>C. Magnetic bubble</li> <li>D. Cache memory</li> <li>Answer: D</li> </ul>
5. The term associated with the comparison of processing speed of different computer systems is A. CPS B. EFTS C. MIPS D. MPG Answer: C
6. The primary job of the operating of a computer is to; A. command resources B. manage resources C. provide utilities D. be user friendly

Answer: B

7. What the parity bit is used for
<ul><li>A. it is used in self-complimenting code</li><li>B. Internal code used for storing alphanumeric information</li><li>C. The me Answer used by the computer to check errors during internal manipulation of data</li><li>D. All of the above</li></ul>
Answer: C
8. The ALU of a computer responds to the commands coming from A. Primary memory B. Control section C. External memory D. Cache memory
Answer: A
9.20% of 2=? A. 4 B. 20 C. 0.04 D. 0.4
Answer: D
10. A wall 6m long,5m high and 50cm thick has to be built using bricks measuring 25cm by 7.5cm by 7.5cm. If the mortar occupies 5% of the volume of the wall, then find the number of bricks to build the wall?  A. 4565 B. 6080 C. 5424 D. 8741 Answer:
11. Taka 432 is divided amongst three workers A, B, C such that 8 times A's share is equal to 12 times B's where which is equal to 6 times C's share. How much did A get?
A. 192 B. 162 C. 144 D. 128 Answer: C
12. If 12a+3b=1 and 7b-2a=9, what is the average (arithmetic mean) of a and b?  A. 0.10  B. 0.50  C. 2.50  D. 5.00  Answer: B

13. Mahbub visit three stores. At the first store he spends half of her money plus tk.20.00,at the second store he spends half the money he has left plus tk.10.00 and at the third store he spends half of what has left plus Tk.20.00 He is now out of money. How much money did Mahbub start out with?		
A. 100 B. 140 C. 240 D. 260		
Answer: C		
14. Ms. Josna purchased x grams of Food A, y grams Food B and z grams of Food C. Write the expression for the amount she spent?		
Answer: 1.8x/100+3y/100+2.75/z		
15. A customer is considering to buy either of the following:  A. 500 grams of A,b.250 grams of B, C.350 grams of C, and d.200 grams of B and 200 grams of C. Which diet contains the most grams of protein and how much?		
Answer: D-80gm		
16. Two numbers are such that twice the smaller number execeeds twice the greater one by 18 and $1/3$ of the smaller and $1/5$ of the greater number are together 21.the numbers are:		
A. 36 and 45 B. 45 and 36 C. 50 and 41 D. None		
Answer: A		
17. What value of O will make CDFE a parallelogram, if AB  CD?		
Answer: 145		
18. $5*2$ is a three digit number with $*$ as a missing digit. If the number is divisible by 6, then the missing digit is,		
A. 2 B. 3 C. 4 D. 9		
Answer: A		

19. In four years time the combined age of my three cousins and me will be 208.what will be the combined age in seven years time?  A. 220  B. 224  C. 229  D. 234		
Answer: A		
20. WXYZ is a square, where WX=14,the are XOZ is drawn taking Y as center Find the area enclosed by are XOZ WX and WZ. Answer: 42.0616		
SECTION-II		
1. A movie consists of overlappingof images.		
A. Layers B. Scenes C Frames D. Flash Answer: B		
2. Which of the following describes a bitmap graphic?		
A. Any grid with a lot of B. A vector graphic C. Shape or path of line D. Any shape filled with solid or gradient color Answer: B		
3. Internet requires		
A. an international agreement to connect computers B. a local area network C. commonly agreed set of rules to communicate between computers D. World Wide Web Answer: D		
4. By an intranet we mean		
A. A Wide Area Network connecting all branches of an organization B. A network connecting all computers of an organization and using the internet C. A LAN of an organization D. A corporate computer network Answer: C		

5. The tag used in HTML to link it with other URL's is:	
A. <a> B. <h> C. <u> D. <l></l></u></h></a>	
Answer: A	
6. Sessions are special techniques in web application development where :	
<ul><li>A. Stores javaScripts</li><li>B. Store only IP address.</li><li>C. Store only 'user id' and 'password'</li><li>D. User's interactions with the site are stored dynamically</li></ul>	
Answer: D	
7. Which of the following standards does not support video ?	
A. mpeg B. wmv C. mp3 D. avi	
Answer: C	
8. A search engine is a program to search	
A. for information B. Web pages C. web pages for specified index terms D. web pages for information using specified search terms Answer: D	
<ul> <li>9. XML uses</li> <li>A. User defined tags</li> <li>B. Pre-defined tags</li> <li>C. both Pre-defined and User defined tags</li> <li>D. Extended tags used in HTML and makes them powerful Answer: A</li> </ul>	
10. It is possible to display pictures in images in HTML specification by using the A. <pic file="" src="Picture"> B. <img file="" src="Picture"/> C. <gif file="" src="Picture"> D. <gr file="" src="Picture"> Answer: b</gr></gif></pic>	

### Section-IV

1. Which command properly allocates memory?
A. char *a=new char [20]; B. char a=new char [20]; C. char a=new char (20.0); D. char a[]=new char [20];
Answer: D
2. Which one is the feature of object oriented programming?
A. Encapsulation B. Polymorphism C. Inheritance D. All of the above
Answer: D
<ul> <li>3. What's the error of the statement: (x=4&amp;&amp;y=5)?(a=5);(b=6);</li> <li>A. The question mark should be an equal sign</li> <li>B. There are too many variables in the statement</li> <li>C. The first Semicolon should be a colon</li> <li>D. The conditional operator is only used with strings</li> </ul>
Answer: C
4. With every ue of a memory allocation function, what function should be used to release allocated A. Unalloc () B. Dealloc () C. Release () D. Free ()
Answer: D
5. Class Employee {int rate,comm;}; the access specifier for its data member rate and comm is not defined.What will be the access specifier them?
A. Private B. Public C. Protected D. None
Answer: A

6."Your bonus is 22%!" Select the statement which will EXACTLY reproduce the line of text above. A. Printf ("\"Your bonus is 22%\!"\n"); B. Printdf ("Your bonus is 22%!\n"); C. Printf ("Your bonus is 22%'!\n"); D. Printf ("\"Your bonus is 22%%\!\n"); Answer: D 7. What is the Output of these codes? B. 4,3,2,1,0,0. 8. What does strucat (an\_arry,"this");do? A. Copies "This"into an\_arry B. Adds"This"to the end of an\_arry C. Compares an\_array and "This" D. Nothing Answer: B 9. Which of the following is evaluated first in C? A. << B. || C. ! D. && Answer: C 10. Which function initializes variables in a class? A. method B. constructor C. destructor

D. identifier

Answer: B

# Bangladesh Computer Council Batch-8

#### SECTION -1

1. The sum of two numbers is 83957 and their difference is 74821; what should be subtracted from the greater number to get the smaller?
A. 4568 B. 9136 C. 74821 D. 75311
Answer: C
2. If $x/y = 3/z$ , then what is the value of $9/2$ ?
A. 3x2 B. x3Z C. (1/9)x3z3 D. x2z2
Answer: D
3. Which of the following is the closest to 2 (Zero)?
A. (1-0.9)2 B. 1-(0.9)2 C. 0.09 D. (0-0.9)2
Answer: D
4. Two numbers are in the ration 5:4 and the difference is 10, what is the larger number?
A. 10 B. 40 C. 50 D. 100

Answer: C
5. If the radius of a circle increased by 6%, then the area is increased by
A. 0.36% B. 3.6% C. 12.36% D. 36%
Answer: C
6. A wheel makes 600 revolutions is passing over 2 Km 736 m; what is its circumference?
A. 4.56 m B. 27.36 m C. 45.6 m D. 273.6 m
Answer: A
7. What value of x holds for the inequality 2x+18>7x-5?
A. x<23/5 B. x>23/5 C. x>23/9 D. x<23/9
Answer: A
8. Distribution of Exam Scores in a class: Number of Student, Number of correction Answerwer 10.36-40 16.32-35, 112.28-31, 14.26-27, 8.0-25 What percent of the class Answerwered 32 or more quesitons correctly?
A. 16 B. 30 C. 43.33 D. 11.5
Answer: C

9. The number of students who Answerwered 28 to 31 questions correctly is x times the number who Answerwered 25 or fewer correctly, wehre x is?		
A. 1.5 B. 0.5 C. 0.09 D. 1.0		
Answer: A		
10. PQ and RS are stright lines which are parrellel to each other. What is the value of angle x in degrees?		
A. 30 B. 40 C. 50 D. 75		
Answer: C		
11. Keramat's salary is currently Tk. 35,000. Five years back his salary was Tk. 10,000. What is the percentage increase in his salary in five years?		
A. 25 B. 50 C. 250 D. 350		
Answer: C		
12. If a circle has a radius 4, and if P and Q are points of the circumference, then the maximum length of an arc which could seperate P and Q is.		
A. 4r B. 5 C. 2r D. 2		
Answer: A		
13. What is the area of the rectangle ABCD?		
A. 6 B. 10 C. 12 D. 20 Answer: D		

14. X and Y agreed to do a job, X alone complete one third of the job and then asked Y to complete the rest, Y hired Z and the two of them shared the job equally. Which statement of the following is cirrect? A. Y did more than X B. Y did more then Z C. Y did as much as X & Z did individually D. Y did as much as X & Z did together

Answer: C

- 15. Them sum of an odd andan even number is
- A. Sometimes an odd number
- B. Always an odd number
- C. Always a prime number
- D. Always divisible by 3 or 5 or 7

Answer: B

- 16. The ALU of a computer responds to the commands coming from?
- A. Primary memory
- B. Control section
- C. External memory
- D. Cache memory

Answer: B

- 17. Rahim and Karim are twin brothers. Their combined age now is equal to their mother's age. After 10 years,
- A. Combined age of Rahim and Karim will be equal to their mother's age;
- B. Mother's age will be three times Karim's age;
- C. Combined age of Rahim and Karim will be greater than their mother's age;
- D. Combined age of Rahim and Karim will be less than their mother's age;

Answer: C

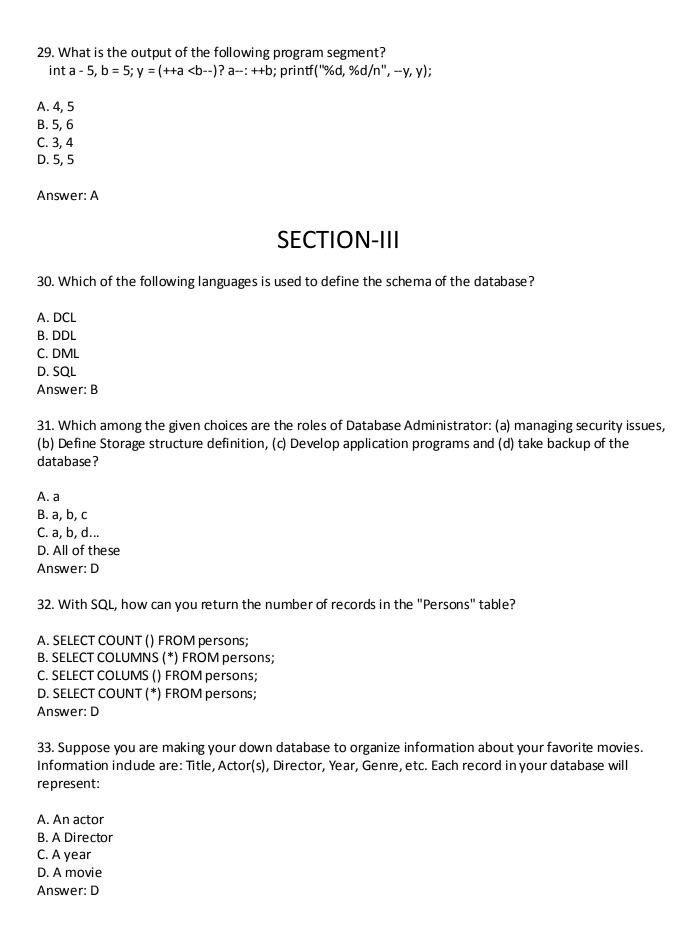
- 18. To share data with other windows application use
- A. Object embedding
- B. Copying and pasting of text and images
- C. Object Linking
- D. All of the above

Answer: C

19. What represents graphic document on the World Web Web?		
Ahtml Bgif Cwav Davi		
Answer: B		
20. Which of the follwing is not a function of the CPU?		
A. Decode instructions B. Write back the results C. Stores the program D. Fetch data		
Answer: A		
SECTION-II		
21. If Y has the value 5 what will be value of variable Y after the following peice of C++ is execute? if (y>0) y+=2 else y = 3;		
A. 5 B. 7 C. 3 D. 2		
Answer: B		
22. Which one is the feature of object oriented programming?		
A. Encapsulation B. Polymorphism C. Inheritance D. All of the above		
Answer: D		
23. What's the error of the state, while ((i<10) && (i>24))		
A. Test condition cannot contain a logical operator B. The while loop is an exit-condition loop C. The test condition is always true D. The test condition is always false		
Answer: D		

memory which is not longer needed?		
A. Unalloc(); B. Dealooc(); C. Release(); D. Free();		
Answer: D		
25. What values of i will be printed first and last in the loop?  n = 10; i = 0; do {printf("%d"ii); while (++i <n)}< td=""></n)}<>		
A. 1 and 9 B. 0 and 9 C. 0 and 10 D. 1 and 10		
Answer: B		
26. Which of the following is a complete function?		
A. int funct(); B. int funct (int x) {return x=x+1;} C. void funct (int) {printf("Hello")} D. void funct (x) {printf("Hello")}		
Answer: B		
27. Which of the following is valid for declaration of main function with arguments?		
A. int main(); B. void main (); C. int main (int argo, char*argv[]) D. None of above		
Answer: C		
28. What is the result of the program segment? counter=0; switch (counter) {case 1: printf("One"), case 1: printf("Zero"), case 1: printf("Hello")}		
A. One B. Zero C. Hello D. ZeroHello		
Answer: B		

24. With every use of a memory allocation fucntion, what function should be used to released allocation



- 34. What do intergrity constraints do?
- A. Preserve data consistencey in a database
- B. Ensure authorized changes to the database
- C. Prevent database from accidental damage
- D. All of the above

Answer: B

- 35. Which of the following is true for statement-level triggers?
- A. Executes only once for all rows affected in a trAnsweraction
- B. Executes for each row affected in a trAnsweraction
- C. Executes only when insert or delete is done;
- D. Executes for each row for an appropriate statement to check the integrity constraint

Answer: A

- 36. How can you resolve many-to-many relationship in RDBMS?
- A. Putting Foreign Key to either of the 'many' side
- B. Combining the two tables into one
- C. Create a new table using the Primary Key of both table
- D. None of above

Answer: C

- 37. If every non-primary key attribute is functionally dependent on the whole primary key, then the relation is, at least, in
- A. 1st normal form
- B. 2nd normal form
- C. 3rd normal form
- D. 4th normal form

Answer: B

- 38. Which of the following constraint prevents the entry of duplicate value into the table column(s)
- A. Primary Key
- B. Foreign Key
- C. UNIQUE
- D. NULL

Answer: C

- 39. There are two relations r1 and r2 having 2 and 3 columns respectly. How many columns would be produced by r1 x r2 (Cartesin product)?\
- A. 5
- B. 6
- C. 7
- D. 8

Answer: A

#### **SECTION-IV**

<ul><li>40. Which of the followin</li><li>A. Apache</li><li>B. IIS</li><li>C. Apached and IIS</li><li>D. Apache and Tamcat</li></ul>	ng web server in both Linux and Windows?
Answer: D	
41. Which is the correct HA. <a <a="" href="http://www.bc." http:="" name="http://www.B. &lt;a&gt; name=" www.c.="">http://www.bc.</a> D. <a <="" td="" url="http://www.bc."><td>w.bcc.net"</td></a> bcc.net">Dhaka	w.bcc.net"
Answer: C	
42. How can you open a A. <a href="rul" new=""> B. <a href="rul" rul"="" target="&lt;/td&gt;&lt;td&gt;new"></a></a>	
43. Which of these tags at A. <tf> B. <tf><tt>&lt;<t.> C.  C. <tfoot>  Answer: C</tfoot></t.></tt></tf></tf>	II  tags?
44. What is a web spider A. Internet security B. Items you can click on C. Program that reports h D. A deadly virus spread	to go related pages now many hits a search engine found
Answer: C	
45. When a visitor clicks of A. Label B. Label C. Value D. Name-value pair	the submit button on a form, the of each form element is sent to the server.

Answer: D

46. Which of the following memory have the shortest access time?
A. Magnetic memory B. Hard Disk C. Cache memory D. CD ROM
Answer: C
47. The technique of hiding internal implementation details of an object from its external view best describes;
A. Inforporation B. Polymorphism C. Encapsulation D. Generalization
Answer: C
48. Identify the JavaScript statement that displays the message "Welcome" on one line in the HTML document.
A. alert("Welcome"); B. document.writeIn("Welcome"); C. window.prompt("Welcome",0); D. None of the above
Answer: A
49. Which of the following is true for applets?
<ul> <li>A. A Java program that is explicity executed on a computer systems by Java Interpreter</li> <li>B. A Java program that typically runs on server</li> <li>C. A Java program that typically runs on client-side in a web browser</li> <li>D. A graphic application that is executed when a page is loaded on the dient-side</li> </ul>
Answer: D
50. If Y has the value 5 what will be value of variable Y after the following peice of C++ is execute?
A. 5 B. 7 C. 3 D. 2
Answer: