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QUESTION PAPER 2024

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COMPUTER SCIENCE

(Science)

(For Students Registered in 2021 and 2022)

2024 (A)

COMPUTER SCIENCE

(SCIENCE)

Full Marks : 70

Time : 3 hours

The figures in the right-hand margin indicate marks.
ଦକ୍ଷିଣ-ପାର୍ଶ୍ୱରେ ଥିବା ସଂଖ୍ୟା ପ୍ରଶ୍ନର ମୂଲ୍ୟାଙ୍କ ସୂଚିତ କରେ ।

Answer all questions from Group-A. Answer only ten questions from ***Q.No. 3*** *and only* ***three*** *questions from* ***Q.No. 4*** *from Group-B. Answer any* ***three*** *questions from Group-C*

(Turn Over)

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GROUP–A
କ–ବିଭାଗ

1. Choose the *correct* answer : $1 \times 10 = 10$
ସଠିକ୍ ଉତ୍ତରଟି ବାଛି ଲେଖ :

(*i*) Which feature of OOP described the reusability of code ?

(*a*) Abstraction
(*b*) Encapsulation
(*c*) Polymorphism
(*d*) Inheritance

(*ii*) Which of the following indicates a secure website ?

(*a*) FTP
(*b*) HTTP
(*c*) HTTPS
(*d*) SMTP

(*iii*) Which of the following is a valid C++ keyword ?

(*a*) Length
(*b*) Private
(*c*) Control
(*d*) None of the above

(*iv*) When a base class is privately inherited by a derived class, then 'public members' of the base class becomes ——— members of the derived class.

(*a*) Private
(*b*) Public
(*c*) Protected
(*d*) None of the above

(*v*) The operation of processing each element in the list is called ———.

(*a*) Sorting
(*b*) Traversal
(*c*) Merging
(*d*) Inserting

(*vi*) Which of the following is not the correct statement for stack ?

(*a*) Arrays can be used to implement stack

(*b*) Elements are stored in a sequential manner

(*c*) Stack follows FIFO

(*d*) Top of the stack contains the last inserted element

(*vii*) The number of attributes in a table is called ———.

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(a) Domain
(b) Cardinality
(c) Tuple
(d) Degree

(viii) Which SQL statement is used to extract data from a table ?
(a) SELECT
(b) READ
(c) DISPLAY
(d) EXTRACT

(ix) In Boolean algebra, $AB + AB' =$ _____.
(a) A′
(b) A
(c) B
(d) B′

(x) _____ function gives the current position of the get pointer.
(a) seekg ( )
(b) tellp ( )
(c) tellg ( )
(d) None of the above

2. Answer the following questions : $1 \times 10 = 10$
ନିମ୍ନଲିଖିତ ଗୁଡ଼ିକର ଉତ୍ତର ଲେଖ :

(i) Define Encapsulation.

(Continued)

(ii) What is scope resolution operator ?

(iii) Define Destructor.

(iv) What is multiple inheritance ?

(v) Expand LIFO.

(vi) Define linear data structure.

(vii) Define alternate key.

(viii) Define DML.

(ix) What is MODEM ?

(x) What is hacking ?

GROUP—B
'ଖ'—ବିଭାଗ

3. Answer any *ten* of the following questions within *30* words each : $2 \times 10 = 20$
ଯେ କୌଣସି *ଦଶଟି* ଶବ୍ଦ ମଧ୍ୟରେ ଉତ୍ତର ଲେଖ :

(a) What is data hiding ?

(b) How a pointer variable is declared in C++ ?

(c) Explain the function of eof ().

(d) What is multi-level inheritance ?

(e) Define primary key.

(Turn Over)

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(*f*) Write the use of DROP TABLE in SQL.

(*g*) Simplify the following expression using Boolean Algebra :

$A'B + ABC' + ABC$.

(*h*) Write SQL query to display 'Name' and 'Salary' of employees from the EMP table whose salary is greater than or equal to 2500.

(*i*) What is a dynamic data structure ?

(*j*) What is a circular queue ?

(*k*) Write the steps involved in the deletion of an element from the stack.

(*l*) What is network topology ?

4. Answer any *three* of the following questions within *50* words each : $3 \times 3 = 9$

ଯେ କୌଣସି ତିନୋଟିର ଉତ୍ତର ୫୦ଟି ଶବ୍ଦ ମଧ୍ୟରେ ଲେଖ :

(*a*) Explain the syntax of opening multiple files in C++ with an example.

(*b*) Explain three special characteristics of a constructor function.

(*c*) Evaluate the following POSTFIX expression :

256 + * 2 ^ 4 /

(*Continued*)

(*d*) What is domain name ? Explain its use with an example.

(*e*) Explain the advantages of Database systems.

GROUP – C
'ଗ' – ବିଭାଗ

Answer any **three** of the following questions : $7 \times 3 = 21$

ନିମ୍ନଲିଖିତ ଯେ କୌଣସି ତିନୋଟି ପ୍ରଶ୍ନର ଉତ୍ତର ଲେଖ :

5. Explain the basic concepts of object-oriented programming.

6. What is function overloading ? Write a C++ program to demonstrate how polymorphism is achieved through function overloading.

7. Convert the following INFIX expression to POSTFIX expression using a stack.

$A + (B * C - (D \wedge E)) / F$

8. Simplify the following expression

$AC' + B'D + A'CD + ABCD$

into

(*i*) Sum-of-products form

(*ii*) Product-of-sums form

(*Turn Over*)

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9. What is the difference between Transmission Control Protocol and Internet Protocol ? Why TCP/IP is so important for Internet users ?

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