

Degree (Part-III) Examination, 2025

(Vocational)

COMPUTER APPLICATION

Paper Code : 400805

**(Programming in Visual Basic and
Database Management System-I & II)**

Time : Three Hours]

[Maximum Marks : 100

Note : Candidates are requiring to give their answers in their own words as far as practicable. The questions are of **equal** value. Answer any five questions. Q. no 1 is compulsory.

1. Choose the correct answer from following.

(a) In Visual basic, the storage size of data type "variant" is _____.

(i) 1 Byte

(ii) 2 Byte 1000 2/ //

(iii) 4 Byte

(iv) 8 Byte

(b) Visual Basic is :

(i) High Level

(ii) Assembly Language

(iii) Machine Language

(iv) None of these

(c) VB developed by :

(i) Microsoft Corporation

(ii) Sun Microsystem

(iii) Blue-Ray

(iv) None of these

(d) Which one combines the features of textbox and listbox?

(i) PictureBox

(ii) CheckBox

(iii) ComboBox

(iv) Option Button

(e) Which one is special tool available in VB to access database connectivity?

(i) ADOM

(ii) ADO

(iii) DDAO

(iv) None of these

(f) SDI stands for :

(i) Multiple Data Interface

(ii) Multiple Document Interface

- (iii) Single Document Interface
 - (iv) None of these
- (g) Extension of standard form _____.
- (i) .bas
 - (ii) .vb
 - (iii) .frm
 - (iv) None of these
- (h) VB is:
- (i) Front-End
 - (ii) Back-End
 - (iii) Both (i) and (ii)
 - (iv) None of these
- (i) DQL stands for :
- (i) Data Queue Language

(ii) Data Query Language

(iii) Data Quantity Language

(iv) None of these

(j) Father of DBMS is :

(i) Dr. Eadgar Codd

(ii) Von Neumann

(iii) John MacCarthy

(iv) None of these

2. (a) Write the main features of VB.

(b) Explain the different operators available in VB with example.

3. (a) What is ReDim? Write the use of keyword 'redim' while using array.

(b) What is use of input box in VB? Write a program to enter a number and compute the factorial of a number.

4. (a) Explain Label, PictureBox and Command Button with their properties, methods and events.
- (b) What is MDI? Write the advantage of MDI in VB application.
5. (a) What do you mean by IDE? Explain each of their components.
- (b) Discuss decision-making and control statement in VB.
6. (a) Write the advantage of RDBMS and Discuss Codd's Rule.
- (b) Discuss architecture of DBMS with the components of DBMS.
7. (a) Discuss the DCL command of SQL.
- (b) Discuss DDL and DML language with suitable example.

8. Create a VB application and with a login form and accept username "admin" and password "admin123" and if success then open a MDI form with neat diagram and code to login on click button.
9. (a) Write difference between "while" and "do while" in VB.
- (b) What is Procedure? Write a procedure to compute factorial of a number by input in textbox and click on button.
10. Write short notes on **any three** of the following :
- (a) Data Model
- (b) Primary Key
- (c) Foreign Key
- (d) Integrity Constraints

THE END



Degree (Part-III) Examination, 2025

(Vocational)

COMPUTER APPLICATION

Paper Code : 400806

**[Object Oriented Programming
(C++ and Java) and Advance
Topics in Computers]**

Time : Three Hours]

[Maximum Marks : 100

Note : Candidates are required to give their answers in their own words as far as practicable. The questions are of equal value. Answer **any five** questions. Question No.-1 is compulsory.

Note : Choose the correct option from each question :

1. (i) "Virtual" function is defined ____.
- (a) Compile time polymorphism
 - (b) Runtime polymorphism
 - (c) Inside constructor
 - (d) None of the above
- (ii) A default constructor argument ____.
- (a) One
 - (b) Two
 - (c) Three
 - (d) Zero
 - (e) None of the above
- (iii) Which type of interface support multiple inheritance in Java?

(a) Single interface

(b) Multiple interface

(c) Both (a) and (b)

(d) None of the above

(iv) Operator $>>$ is called :

(a) Insertion operation

(b) Put to operator

(c) Both (a) and (b)

(d) Extraction operator

(v) Which keyword is not supported by Java?

(a) friend

(b) import

(c) interface

(d) class

(vi) The size of char data type in C++ page.

- (a) 2
- (b) 1
- (c) 0
- (d) None of the above

(vii) What will be the output of program?

```
int main()
{
    int z=20.
    for(z=kz<10;z++):
    {
    }
    cout<<endl<<z:
}
```

- (a) 1
- (b) 5
- (c) 10
- (d) None of the above

(viii) C++ was Develop By :

- (a) Denis Ritchie
- (b) James Gosling
- (c) Bjarne Stroustrup
- (d) None of the above

(ix) The manipulator end is equivalent to :

- (a) \'
- (b) \t
- (c) \b
- (d) None of the above

(x) Which one is not supported by Java? (B)

(a) Package

(b) Complex

(c) Interface

(d) Applet

2. (a) What is the difference between C and C++.

(b) Write access specifier in C++.

3. (a) What is Operator? Explain shift operator in java with example.

(b) What is Operator overloading? Give an example of Binary Operator overloading.

4. (a) Explain virtual function with suitable example.

(b) Discuss the implementation of interface in java.

5. (a) Explain abstract class in C++ with suitable example.

 (b) Explain dynamic memory management in C++.
6. (a) Discuss data types in JAVA with example.

 (b) What do you mean by passing object to function state with example?
7. (a) What is inline and outline function in C++? Explain with example.

 (b) Write a program in C++ using virtual function and compute square and cube of a number.
8. What is Constructor in Java? Discuss types of Constructor in Java with suitable example.
9. (a) What is Thread? Discuss life cycle of thread.

 (b) Discuss the types of thread in Java.
10. Write short notes on **any two** of the following :

 (a) Package in Java

(b) Exception Handling in C++

(c) Artificial Intelligence

(d) Final keyword

THE END

Degree (Part -III) Examination, 2025

(Honours, Vocational & General)

(For Science & Commerce Students Only)

GENERAL STUDIES

Paper Code : 710901/730901/740901

Time : Three Hours]

[Maximum Marks : 100

Note : Candidates are required to give their answers in their own words as far as practicable. The questions are of **equal** value. Answer **any five** questions, selecting **two** from each group and question no. 1 is **compulsory**.

परीक्षार्थी यथासम्भव अपने शब्दों में ही उत्तर दें सभी प्रश्नों के मान बराबर हैं। प्रत्येक समूह से दो प्रश्नों का चयन करते हुए किन्हीं पाँच प्रश्नों के उत्तर दीजिए तथा प्रश्न संख्या 1 अनिवार्य है।

Group-A/समूह-अ

1. Select the correct answer from the following :

[10×2=20]

निम्नलिखित में से सही विकल्प का चयन कीजिए :

- (i) Which was the oldest Newspaper of Bihar ?

- (a) Aryavart
- (b) Searchlight
- (c) Indian Nations
- (d) None of these

बिहार का सबसे पुराना समाचार पत्र कौन था ?

- (a) आर्यावर्त
- (b) सर्चलाइट
- (c) इण्डियन नेशन्स
- (d) इसमें से कोई नहीं

(ii) Who said, "You give me blood and I will give you freedom" ?

- (a) Bal Gangadhar Tilak
- (b) Subhas Chandra Bose
- (c) Jawaharlal Nehru
- (d) B.R. Ambedkar

किसने कहा था कि "तुम मुझे खून दो, मैं तुम्हें आजादी दूंगा" ?

- (a) बाल गंगाधर तिलक
- (b) सुभाष चन्द्र बोस
- (c) जवाहरलाल नेहरू
- (d) बी. आर. अम्बेडकर

(iii) Which of the following team won first cricket world cup?

- (a) Australia

- (b) India
- (c) England
- (d) West Indies

प्रथम क्रिकेट विश्व कप किसने जीता था?

- (a) ऑस्ट्रेलिया
- (b) भारत
- (c) इंग्लैंड
- (d) वेस्टइंडीज

(iv) In how many fields are Nobel Prize awarded?

- (a) 5
- (b) 6
- (c) 7
- (d) 8

नोबेल पुरस्कार कितने क्षेत्रों में दिये जाते हैं?

(a) 5

(b) 6

(c) 7

(d) 8

(v) The first colour movie made in India was :

(a) Mother India

(b) Mughal-e-Azam

(c) Devdas

(d) Kisan Kanya

भारत में निर्मित प्रथम रंगीन फिल्म थी :

(a) मदर इण्डिया

(b) मुगल-ए-आजम

(c) देवदास

(d) किसान कन्या

(vi) Mcmohan Line is situated between :

- (a) India and Pakistan
- (b) India and China
- (c) India and Nepal
- (d) India and Bangladesh

मैकमोहन रेखा अवस्थित है, बीच में :

- (a) भारत और पाकिस्तान
- (b) भारत और चीना
- (c) भारत और नेपाल
- (d) भारत और बांग्लादेश

(vii) Who is Ravi Shastri ?

- (a) A great Cricket Player
- (b) A great Philosopher

(c) A great Mahatma

(d) A great Poet

रवि शास्त्री कौन हैं ?

(a) एक महान क्रिकेट खिलाड़ी

(b) एक महान दार्शनिक

(c) एक महान महात्मा

(d) एक महान कवि

(viii) Who said, "You give me blood and I will give you freedom" ?

(a) Bal Gangadhar Tilak

(b) Subhas Chandra Bose

(c) Jawaharlal Nehru

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किसने कहा था कि "तुम मुझे खून दो, मैं तुम्हें आजादी दूंगा" ?

- (a) बाल गंगाधर तिलक
- (b) सुभाष चन्द्र बोस
- (c) जवाहरलाल नेहरू
- (d) बी. आर. अम्बेडकर

(ix) What is the National Symbol of India ?

- (a) Flower of Rose
- (b) Lion
- (c) Tiger
- (d) Ashok Stambh

भारत का राष्ट्रीय चिन्ह क्या है ?

- (a) गुलाब का फूल
- (b) शेर
- (c) बाघ
- (d) अशोक स्तम्भ

(x) Who was the discoverer of Atom ?

- (a) John Dalton
- (b) C.V.Raman
- (c) Hargovind Khorana
- (d) None of these

“एटम” की खोज किसने की थी ?

- (a) जॉन डाल्टन
- (b) सी.वी. रमण
- (c) हरगोविन्द खोराना
- (d) इनमें से कोई नहीं

Group-B/समूह-ब

Note: Attempt any two questions from the following.

[2×20=40]

निम्नलिखित में से किन्हीं दो प्रश्नों के उत्तर दीजिए।

2. Discuss the relationship between liberty and equality.

समानता और स्वतंत्रता के बीच सम्बन्धों की विवेचना कीजिए।

3. What functions are being performed by a welfare state?

लोक कल्याणकारी राज्य द्वारा कौन-कौन से कार्य किये जाते हैं?

4. What is the status of poverty in India? Discuss the programs made for poverty alleviation.

भारत में गरीबी की स्थिति क्या है? गरीबी उन्मूलन के लिए बनाए गए कार्यक्रमों का विवेचन कीजिए।

5. Discuss the national movements of India.

भारत के राष्ट्रीय आन्दोलनों की चर्चा कीजिए।

6. What do you mean by Rights? Discuss the Laski's theory of Rights.

अधिकार से आप क्या समझते हैं? अधिकार सम्बन्धी लॉस्की के सिद्धांत का वर्णन कीजिए।

Group-C/समूह-स

Note : Answer any two questions of the following.

[2×20=40]

निम्नलिखित में से किन्हीं दो प्रश्नों के उत्तर दीजिए।

7. Briefly mention the contribution of T.H. Morgan in genetics.

आनुवंशिकी में टी.एच. मॉर्गन के योगदान का संक्षेप में उल्लेख कीजिए।

8. Why are resources unevenly distributed on the earth?
Discuss

पृथ्वी पर संसाधन असमान रूप से क्यों वितरित हैं? वर्णन कीजिए।

9. What are the main factors that affect the location of the industry? Describe.

वे कौन-से मुख्य कारक हैं जो उद्योग की अवस्थिति को प्रभावित करते हैं? वर्णन कीजिए।

10. Describe how the government helps the farmers in the development of agriculture.

सरकार किसानों को कृषि के विकास में किस प्रकार मदद करती है, वर्णन कीजिए।

11. Describe the different sources of energy.

ऊर्जा के विभिन्न स्रोतों का वर्णन कीजिए।

THE END