

4008-05

Total Pages : 8

Degree (Part-III) Examination, 2023

(Vocational)

COMPUTER APPLICATION

[PPU-D-III(H)-BCA-5]

[Paper : Fifth]

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

Time : Three Hours]

[Maximum Marks : 100

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

1. Choose the correct answer from the following :

(i) Who developed Visual Basic?

(a) Symantec

(b) Ashton-Tate

(c) Microsoft

(d) Sybase

(ii) Which of the following extension is used to represent the project file in VB?

(a) .vbp

(b) .vb

(c) .cls

(d) .vwb

(iii) In VB, which of the following are listed in a properties window?

(a) Items

(b) Value

(c) Attributes

(d) Objects

(iv) Which of the following is commonly used to perform an immediate action when clicked in VB?

- (a) Button control
 - (b) Close
 - (c) End
 - (d) Exit
- (v) Which of the following instruction tells the computer to close the current form in VB?

- (a) This.close ()
- (b) Me.close ()
- (c) Close.this ()
- (d) None of the above

- (vi) What is the value of len in the following VB code?

```
Dim str() As String = {"A", "B", "C", "D"}
```

```
Dim len As Integer
```

```
len = str.Length ()
```

```
print "Length: " & len
```

(a) 2

(b) 3

(c) 4

(d) 5

(vii) Which type of data can be stored in the database?

(a) Image oriented

(b) Text, files containing data

(c) Both (a) and (b)

(d) None of the above

(viii) Which of the following is not a type of database?

(a) Hierarchical

(b) Network

(c) Distributed

(d) Decentralized

(ix) Which of the following is a component of the DBMS?

- (a) Data
- (b) Data Languages
- (c) Data Manager
- (d) All of the above

(x) What is information about data called?

- (a) Hyper Data
- (b) Tera Data
- (c) Meta Data
- (d) Relations

2. (a) What is VB IDE? Discuss all the components of IDE.

(b) Explain 'Variant' datatype with suitable example.

3. (a) Explain the immediate window in VB IDE.
- (b) Write a program in VB to take a number using "inputbox" and print factorial of a number.
4. (a) Explain datatype of Visual Basic with size and example.
- (b) What is Loop? Explain types of loop in VB.
5. (a) What is SDI and MDI? Write difference between SDI and MDI application.
- (b) Discuss any three control of VB with suitable example.
6. (a) What is DBMS? Write difference between DBMS and RDBMS.
- (b) Discuss DDL and DML commands with suitable example.
7. (a) What is Database? Write all the components of database.
- (b) What is Constraints? Discuss Primary key and Foreign key constraints.

8. (a) What is Function? Explain types of function with suitable example in VB.
- (b) What is Event? Discuss any two events with example.
9. (a) Write difference between inner and outer join operation of SQL.
- (b) Write a program in VB to take a number and check palindrome or not.
10. Write short notes on **any four** of the following :
- (a) DTL
- (b) ReDim
- (c) Super key
- (d) Check constraint
- (e) DQL

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Total Pages : 8

Degree (Part-III) Examination, 2023

(Vocational)

COMPUTER APPLICATION

[PPU-D-III (H)-BCA-6]

[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 answer of the following :

1. (i) C++ provides inline functions to reduce function call overhead mainly for :

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(1)

[P.T.O.]

- (a) Large functions
 - ~~(b)~~ Small functions
 - (c) Member function
 - (d) None of the above
- (ii) Constructor and destructor are automatically invoked by :
- (a) Compiler
 - (b) Operating system
 - ~~(c)~~ Object
 - (d) None of the above
- (iii) Which one of the following operators cannot be overloaded ?
- (a) ++
 - (b) &
 - ~~(c)~~ ?:
 - (d) None of the above

(iv) Dynamic binding is done using the ___ keyword.

(a) inline

(b) virtual

(c) static

(d) none of the above

(v) Which one is the valid statement?

(a) `int [] x = new int(6)`

(b) `int [] x = new int [6]`

(c) `int x [] = new x[6]`

(d) none of the above

(vi) Exception created by try block is caught in which block?

(a) Final

(b) Throw

- (c) Catch
- (d) None of the above
- (vii) Which class in java is used to take input from user?
- (a) Buffer
- (b) Input
- (c) Inputbuf
- (d) Scanner
- (viii) Which of the following can be declared as final in Java?
- (a) Class
- (b) Method
- (c) Variable
- (d) All of the above

(ix) This keyword in java is:

- (a) used to hold the reference of the current object
- (b) holds object value
- (c) used to create new instance
- (d) all of the above

(x) The father of AI is :

- (a) Charles Babbage
- (b) Alan Turing
- (c) John McCarthy
- (d) None of the above

2. (a) Discuss the main features of Object-Oriented Programming (OOPs).
- (b) Define the Reference Variable and its features in C++.

3. (a) What is Constructor? Write some features of constructor.
- (b) What is Destructor? Also define features of destructor.
4. (a) What is Inheritance in Java? Also explain the types of inheritance.
- (b) What is thread in Java? How do we create a thread in java?
5. (a) How do we create a java applet? Discuss its life cycle.
- (b) Differentiate between overloading and overriding in Java.
6. (a) Write a program in java to enter a number by user and print the reverse of that number.
- (b) Write a program in C++ to enter a number and check whether the number is armstrong or not. (Using class and object)

- of
- of
- he
- e a
- ife
- nd
- by
- nd
- ot.
7. (a) Explain the new and delete keyword in C++.
- (b) Discuss the ios class hierarchy in C++.
8. (a) Define the features of AI.
- (b) Discuss the characteristics of ATM.
9. (a) Discuss the virtual function in C++ with suitable example.
- (b) Explain the primitive data types in java.
10. (a) Describe the two methods of opening a file in C++.
- (b) Discuss the template class in C++ with suitable example.

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Total Pages : 16

Degree (Part -III) Examination, 2023

(Vocational)

(Common Paper For All)

GENERAL STUDIES

[PPU-D-III (H)-VOC-(GS)-9]

Time : Three Hours]

[Maximum Marks : 100

Note : Candidates are required to give their answers in their own words as far as practicable. Answer **three** questions from each group. Question No. **1** and **6** are **compulsory**.

परीक्षार्थी यथासम्भव अपने शब्दों में ही उत्तर दें। उपांत के अंक पूर्णांक के द्योतक हैं। प्रत्येक समूह से तीन-तीन प्रश्नों के उत्तर दीजिए। प्रश्न सं.1 एवं प्रश्न सं.6 अनिवार्य है।

Group-A / समूह-अ

1. Select the correct answer of the following : [1×10=10]

निम्नलिखित के सही विकल्प का चयन कीजिए।

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(1)

[P.T.O.]

(i) Which of the following is considered the best stupa?

(a) Amaravati

(b) Bharhut

~~(c) Sanchi~~

(d) Sarnath

निम्नलिखित में से किसे सर्वश्रेष्ठ स्तूप माना जाता है?

(a) अमरावती

(b) भरहुत

~~(c) साँची~~

(d) सारनाथ

(ii) In which language were the earliest rock inscriptions?

(a) Pali

(b) Sanskrit

~~(c) Prakrit~~

(d) Brahmi

पत्थर पर प्राचीनतम् शिलालेख किस भाषा में थे?

- (a) पालि
- (b) संस्कृत
- (c) प्राकृत
- (d) ब्राह्मी

(iii) The Brahmi script was first used by letters engraved on :

- ~~(a) Stone plates~~
- (b) Seals
- (c) Pillars
- (d) Coins

ब्राह्मी लिपि का प्रथम उद्वाचन किस पर उत्कीर्ण अक्षरों से किया गया?

- (a) पत्थर की पट्टियों पर
- (b) मुहरों पर
- (c) स्तम्भों पर
- (d) सिक्कों पर

(iv) How many years do the Vikram and Shaka years differ by?

(a) 57 years

(b) 78 years

~~(c) 135 years~~

(d) 320 years

विक्रम एवं शक सम्वत्तों में कितना अन्तर वर्षों में है?

(a) 57 वर्ष

(b) 78 वर्ष

(c) 135 वर्ष

(d) 320 वर्ष

(v) Whose coins have Buddha engraved on them?

(a) Vim Kadaphises

(b) Kanishka

(c) Nahapana

~~(d) Buddhgupta~~

बुद्ध का किसके सिक्कों पर अंकन हुआ है?

- (a) विम कडफिसेस
- (b) कनिष्क
- (c) नहपाण
- (d) बुद्धगुप्त

(vi) The tradition of child marriage began in :

- (a) The Mauryan period
- (b) The Kushana period
- (c) The Gupta period
- (d) In the Harshavardhana period

बाल विवाह की प्रथा आरम्भ हुई :

- (a) मौर्यकाल में
- (b) कुषाणकाल में
- (c) गुप्तकाल में
- (d) हर्षवर्धन काल में

(vii) Who was the founder of Gupta dynasty?

- (a) Srigupta
- (b) Ramagupta
- (c) Chandragupta
- (d) Samudragupta

गुप्त वंश का संस्थापक कौन था?

- (a) श्रीगुप्त
- (b) रामगुप्त
- (c) चन्द्रगुप्त
- (d) समुद्रगुप्त

(viii) Where was the first Nuclear Power Station of the world setup?

- (a) Britain
- (b) Germany
- (c) Russia
- (d) USA

विश्व में पहला परमाणु बिजलीघर कहाँ स्थापित किया गया था?

- (a) ब्रिटेन
- (b) जर्मनी
- (c) रूस
- (d) यू.एस.ए.

(ix) World's largest wine producer is :

- (a) France
- ~~(b) Italy~~
- (c) Spain
- (d) USA

विश्व में मदिरा का वृहत्तम उत्पादक है :

- (a) फ्रांस
- (b) इटली
- (c) स्पेन
- (d) संयुक्त राज्य अमेरिका

(x) The headquarter of the European Union is situated in :

~~(a) Brussels~~

(b) Helsinki

(c) Paris

(d) Rome

यूरोपीय संघ का मुख्यालय अवस्थित है :

(a) ब्रुसेल्स में

(b) हेलसिंकी में

(c) पेरिस में

(d) रोम में

Note: Attempt any two questions from the following : [2×20=40]

निम्नलिखित में से किन्हीं दो प्रश्नों के उत्तर दीजिए :

2. Throw light on the main sources of Ancient Indian History.

✓

प्राचीन भारतीय इतिहास के प्रमुख स्रोतों पर प्रकाश डालिए।

3. Write a note on Civil Disobedience movement.

सविनय अवज्ञा आन्दोलन पर टिप्पणी लिखिए।

4. Write the causes of Quit India Movement.

भारत छोड़ो आन्दोलन के कारण बताइये।

5. Write a geographical essay on major agricultural Industries of Bihar.

बिहार के प्रमुख कृषि उद्योगों पर एक भौगोलिक निबन्ध लिखिए।

Group-B / समूह-ब

6. Select the correct answer of the following : [1×10=10]

निम्नलिखित के सही विकल्प का चयन कीजिए।

(i) 'Ampere' is unit for measuring :

~~(a) Voltage~~

~~(b) Electric current~~

(c) Resistance

(d) Power

‘एम्पियर’ मापने की इकाई है :

- (a) वोल्टेज
- (b) विद्युत धारा
- (c) प्रतिरोध
- (d) पावर

(ii) The unit of power is :

- (a) Hertz
- (b) Volt
- ~~(c) Watt~~
- (d) Newton

शक्ति का मात्रक है :

- (a) हर्ट्ज
- (b) वोल्ट
- (c) वॉट
- (d) न्यूटन

(iii) Unit of work is :

~~(a) Joule~~

(b) Newton

(c) Watt

(d) Dyne

कार्य का मात्रक है :

(a) जूल

(b) न्यूटन

(c) वॉट

(d) डाइन

(iv) When was Pokharan test conducted?

~~(a) 11 June, 1998~~

(b) 9 June, 1998

(c) 11 May, 1998

(d) 29 May, 1998

पोखरण परीक्षण कब किया गया था?

(a) 11 जून, 1998

(b) 9 जून, 1998

(c) 11 मई, 1998

(d) 29 मई, 1998

(v) Which of the following is not a nuclear fuel?

~~(a) Uranium~~

(b) Thorium

(c) Radium

(d) Helium

निम्नलिखित में से कौन न्यूक्लियर ईंधन नहीं है?

(a) यूरेनियम

(b) थोरियम

(c) रेडियम

(d) हीलियम

(vi) Which of the following is the first nuclear plant in India?

- (a) Narora
- (b) Kalpakkam
- (c) Tarapur
- (d) Kota

भारत का प्रथम परमाणु संयंत्र निम्न में कौन है?

- (a) नरोरा
- (b) कलपक्कम
- (c) तारापुर
- (d) कोटा

(vii) Who invented the steam engine?

- (a) Robert Wattson
- (b) James Watt
- (c) William Harvey
- (d) None of the above

भाप के इंजन के आविष्कारक कौन थे?

- (a) रॉबर्ट वाटसन
- (b) जेम्स वॉट
- (c) विलियम हार्वे
- (d) उपरोक्त में से कोई नहीं

(viii) Who invented the fountain pen?

- ~~(a) Waterman~~
- (b) Parker
- (c) Chelpark
- (d) Schafer

फाउण्टेन पेन के आविष्कारक कौन थे?

- (a) वाटरमैन
- (b) पार्कर
- (c) चैलपार्क
- (d) शैफर

(ix) Which of the following is lighter than water?

- (a) Aluminium
- (b) Sodium
- (c) Magnesium
- (d) Manganese

निम्नलिखित में से क्या जल से हल्का होता है?

- (a) एल्युमिनियम
- (b) सोडियम
- (c) मैग्नीशियम
- (d) मैंगनीज

(x) Which of the following metals is liquid at normal temperature?

- (a) Lead
- (b) Mercury
- (c) Nickel
- (d) Tin

निम्न धातुओं में से कौन सामान्य ताप पर द्रव है?

- (a) सीसा
- (b) पारा
- (c) निकल
- (d) टिन

Note: Answer any two questions from the following : [2x20=40]

निम्नलिखित में से किन्हीं दो प्रश्नों के उत्तर दीजिए :

7. ✓ What is bacteria? Discuss its types.

जीवाणु क्या है? इसके प्रकारों का वर्णन कीजिए।

8. Describe some important properties of living forms.

सजीव के कुछ प्रमुख लक्षणों का वर्णन कीजिए।

9. ✓ Give three examples each of conventional and non-conventional sources of energy.

ऊर्जा के परम्परागत और गैर-परम्परागत स्रोतों में से प्रत्येक के तीन-तीन उदाहरण दीजिए।

10. What is a geo-satellite and how is it useful?

भू-स्थिर उपग्रह क्या है और यह किस प्रकार लाभदायक है?

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(16)