

**2008**

**TIME : 3 Hours**

**Full Marks : 75**

**Candidate are required to give their answers in their own words as far as practicable.**

**i) Answer any five questions including Q. No. 1 is compulsory**

**ii) All questions have equal value**

1. a) Choose the correct answer :

i) C++ Language was invented by

a) Bjarne stroustrup b) Dennis M Ritchie c) Ken Thompson  
d) None of these

ii) The packing of data and functions into a single component is known as :

a) Encapsulation b) Polymorphism c) Abstraction  
d) None of these

iii) Object oriented programming is popular because

a) User can define user defined data types  
b) Programming statements are easy  
c) It is easy to find bugs and errors  
d) All of the above

iv) The EXISTING CLASS CAN BE REUSED BY

a) Inheritance b) Polymorphism c) Dynamic binding d) Abstraction

v) Composition of objects in a class is known as

a) Delegation b) Inheritance c) Polymorphism d) None of these.

- B. State whether the following statements are true or false :
- i) In procedure oriented programming all data are shared by all functions.
  - ii) One problem with OOPS is that once a class is created it can never be changed.
  - iii) Object oriented approach cannot be used to creat data base
  - iv) Object oriented programs are executed much faster than conventional programs.
  - v) Inheritance means the ability to reuse the data value of one object by objects.
2. What is object oriented programming? Distinguish between the data abstraction and data encapsulation.
  3. What do you mean by overloading of a function? when do you use this concept? Describe the different styles of writing prototypes.
  4. What are objects and classes? what is friend function? When are the merits and demerits of using a friend functions?
  5. What is a constructor? how do we invoke a constructor functions? Describe the importance of destructors.
  6. What are different forms of inheritance? Give an example for each. what is a Virtual base class?
  7. What does polymorphism mean in C++ language? What does this pointer point to ? What are the applications of this pointers?
  8. What is Artificial intelligence? Briefly explain the various components of artificial intelligence.
  9. Describe the difference among switch bridge and Hub.
  10. a) What is quick sort? write  
b) Sort the following No. using            sort:  
  
12 34 5 78 4 56 10 23 1 45 63

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- 1.a) Choose the correct answer :
- i) when collection is used in VB the property used to find out how many objects are there in the collection is  
a) number b) item c) total d) count
  - ii) a name storage location in memory is called  
a) variable b) data c) string d) all of these
  - iii) Which statements define a variable  
a) dim b) Dimensions c) both a & b d) none of these
  - iv) Which of the following statements can be used to load a form into the memory without directly displaying it on the screen?  
a) show b) load c) hide d) dim
  - v) The OLE give feedback occurs after which of the following events :  
a) OLE Drag and drop operations  
b) OLE Drag over  
c) Both a and b  
d) none of these
  - vi) What happens if you don't write code to react to all the events an object generates?  
a) a runtime error occurs. b) a compile time error occurs  
c) Both a and b d) None of these
  - vii) A bound control allows information to be automatically displayed and written to the record set of a data control. What is the name of the common property used to control the data control?  
a) Record source b) Data source c) Data field d) record set

- viii) How many ways can a procedure receive variables?  
a) one b) two c) three d) four
- ix) Choose visual basic data type :  
a) variant b) double c) currency d) all of these
- x) Which data types always have decimal places?  
a) single b) double c) currency d) all of these
2. What do you mean by IDE (Integrated development Environment)? Explain the different types of VB environment? Explain SDI environment?
3. What do you mean by controls? Explain five important controls with their properties and events. How you can setting the control properties with the help of code.
4. What is common dialog box? Explain message and input box with a suitable example? Is form may be created as dialog box. If yes How?
5. What is file handling in VB? Explain important types of file handling in VB. Describe the common properties of event driven programming.
6. What is active -X ? Describe the advantages and disadvantages of active-X control. What is ADO?
7. Explain the method for working with the properties windows, scale properties and color properties.
8. Describe the classification of operator type in VB with an example.
9. explaining the difference between Combo Box & List Box. What is the method that indicates whether a list box item is selected?
10. What is database Management System? Describe the Advantage And disadvantages of DBMS. What is difference between DBMS & RDBMS?

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**NOTE - i) Give your answer either in English or Hindi**

1. **Bhagwan Budha got enlightenment in :  
a) Bodhgaya b) Nalanda c) Patliputra d) Bikramshila e) none of them**
2. **The president of India is :  
a) Smt. Sonia Gandhi b) Smt. Pratiba Singh Patil c) Smt. Sushma Swaraj d) Smt. Nazma Heptulah**
3. **The country which has defeated Australia in one day cricket series in 2008 is :  
a) Sri Lanka b) S. Africa c) Pakistan d) India e) England**
4. **Which gas often creates more air pollution?  
a) Nitrogen b) Carbon-di-oxide c) Carbon monoxide d) Oxygen**
5. **Which State has the record of highest rainfall?  
a) Bihar b) Monipur c) Assam d) Meghalaya e) Arunachal**
6. **Who is the finance minister of Bihar?  
a) Shushil Kumar Modi b) Nitish Kumar c) N. K. Yadava d) Ashwani Choube e) Gautam singh**
7. **Vishnupad temple is situated at?  
a) Amritsar b) Kashi c) Allahabad d) gaya e) punpun**
8. **Which instrument is used to measure earth quake?  
a) barometer b) Seismograph c) Manometer d) Hygrometer e) All of them**

9. Acid rain occurs due to :
- a) Urbanisation
  - b) Industrilisation
  - c) Modernisation
  - d) Erosion
  - e) Sunami
10. AIDS is caused by :
- a) Virus
  - b) Bacteria
  - c) Fungi
  - d) Mosquitos
  - e) All of them
11. give full forms of the following Abbreviation 2x10 = 20
- a) WHO
  - b) HRD
  - c) GATT
  - d) NATO
  - e) NPT
  - f) POTO
  - g) LIC
  - h) BHEL
  - i) TISCO
  - j) NTPC
12. Describe the importance of the following ( in 50 words) 5x4 = 20
- a) Bodh-Gaya
  - b) Vaishali
  - c) Bikramshila
  - d) Patliputra
13. Describe the following ( in 100 words) 10x2 = 20
- a) Importance of forest
  - b) vitamins and their uses in life.
14. Write notes on any two of the following ( 100 words) 10x2 = 20
- a) Relationship between India and China
  - b) Gandhi and Independence movement.
  - e) problems of primary education in Bihar
  - d) Condition of Women in Bihar.