

Roll No. \_\_\_\_\_

S-3049

**B.Sc. (IT) Even Semester Examination-2019**

**Paper – III<sup>rd</sup>**

**[System Analysis & Design]**

**Paper Code-(BSIT - 203)**

Time : 03 Hours]

[Maximum Marks : 70

Note: Attempt any Five questions. Each question carries equal marks.

1. (a) What do you mean by a System? Explain the characteristics of systems. 7  
(b) What is computer based information system and what is its purpose? 7
2. (a) Differentiate between management information system and decision support system. 7  
(b) Who is system analyst? Explain the role of system analyst. 7
3. (a) What is SDLC ? Explain it's all phases in detail. 7  
(b) What do you mean by feasibility study? Explain the various steps in feasibility study.
4. (a) What is Data flow diagram ? Explain some of symbols used to draw a DFD. 7  
(b) Draw a DFD on railway reservation system. 7
5. (a) What are the methods of gathering information? 7  
(b) What is a form? Give the various types of forms. 7
6. (a) What do you understand by Cost-benefit analysis ? Explain in detail. 7  
(b) What is decision table? Write down the steps to construct a decision table. 7

7. Write short notes on any four -

14

- (a) CRT screen design
- (b) Data dictionary
- (c) Formal and Informal Information system
- (d) Interviews
- (e) Requirement of form design
- (f) Onsite observations

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S-3052

**B.SC. (IT) Even Semester Examination-2019**  
**Paper – II<sup>nd</sup>**

**[Advance RDBMS ]**

**Paper Code-(BSIT - 402)**

Time : 03 Hours]

[Maximum Marks : 70

Note: Attempt any Five questions. Each question carries equal marks.

1. (a) What is RDBMS ? Differentiate between RDBMS and ORDBMS.  
(b) Explain ACID properties of a transaction.
2. (a) Explain various data models with suitable example for each.  
(b) What is deadlock ? How it can control ?
3. (a) Write short notes on : 7  
(i) Third normal form  
(ii) Boyce code normal form  
(b) What is data integrity ? Explain the type of integrity constraints. 7
4. (a) Give an overview of 3- Tier client server architecture.  
(b) What do you understand by distributed database? Give the various advantages of distributed data base management system. 7
5. (a) What is middleware in web application ? How does it work?  
(b) What is data ware house ? Explain the role of meta data in data ware house.

Paper Code : **S-4327**

**B.Sc (IT) 6th Sem Examination 2020**  
**(ADVANCE PROGRAMING JAVA)**  
**Paper – II**  
**Course Code-BSIT-602**

Time : 1½ Hours]

[Maximum Marks : 70

**VERY IMPORTANT INSTRUCTIONS ( अति आवश्यक निर्देश )**

1. This question booklet consists of 35 multiple choice questions. All questions are compulsory and carry equal marks each. There is no negative marking.  
इस प्रश्न पुस्तिका में कुल 35 बहुविकल्पीय प्रश्न हैं। सभी प्रश्न अनिवार्य हैं एवं प्रत्येक प्रश्न हेतु समान अंक निर्धारित हैं। गलत उत्तर के लिए अंक नहीं काटे जायेंगे।
2. Each question has four expected answers/alternative responses given below and marked as - (A), (B), (C) and (D). The candidate is expected to choose the appropriate answer from the options and marked on OMR sheet.  
प्रत्येक प्रश्न के चार विकल्प/संभावित उत्तर (A), (B), (C) और (D) के रूप में उनके नीचे दिए गए हैं। अभ्यर्थी को विकल्पों में से उपयुक्त उत्तर का चुनाव करना है और ओ.एम.आर. प्रपत्र पर अंकित करना है।
3. You will be given separate OMR sheet with this question booklet. Before filling your answers on the OMR sheet ensure that you are writing the answers in proper serial. Fill all the required information such as Roll No., Enrolment No., Name of centre, Subject, Subject code, etc. in appropriate places on given OMR sheet, neatly and clearly.  
इस प्रश्न पुस्तिका के साथ आपको ओ.एम.आर. प्रपत्र अलग से दिया जा रहा है। उत्तर लिखने से पूर्व सुनिश्चित कर लें कि आप ओ.एम.आर. प्रपत्र में उत्तर सही क्रम पर अंकित कर रहे हैं। ओ.एम.आर. प्रपत्र पर अनुक्रमांक, नामांकन संख्या, केन्द्र का नाम, विषय, विषय कोड आदि सभी वांछित सूचनाएं यथास्थान, स्वच्छ एवं स्पष्ट रूप से भरें।
4. Use only black ball pen to mark the answer on OMR sheet.  
ओ.एम.आर. प्रपत्र में उत्तर अंकित करने हेतु केवल काले बाल पैन का ही प्रयोग करें।
5. The circle corresponding to options of the correct answers should be filled completely on OMR sheet, so that the alphabet inside the circle is not visible.  
ओ.एम.आर. प्रपत्र में सही उत्तर के गोलों को पूर्ण रूप से भरें जिससे कि गोले के अन्दर लिखा अक्षर दिखाई न दे।
6. Mark answer only in the circles provided. Do not make any stray mark anywhere on the OMR-sheet. Do not fold or wrinkle the OMR sheet.  
प्रश्न के उत्तर को केवल गोले में अंकित करें। ओ.एम.आर. प्रपत्र के किसी भी भाग पर किसी भी प्रकार का चिह्न खरोंच इत्यादि न बनायें और न ही ओ.एम.आर. प्रपत्र को मोड़ें।



## Advance Programing Java

1. Java is Complete OOPS.  
(A) True  
(B) False
2. Which of the following is used with the switch statement?  
(A) Continue  
(B) Exit  
(C) Break  
(D) Do
3. The while loop repeats a set of code while the condition is not met.  
(A) True  
(B) False
4. How constructor can be used for a servlet?  
(A) Initialization  
(B) Constructor function  
(C) Initialization and Constructor function  
(D) Setup() method
5. What is the order of variables in Enum?  
(A) Ascending order  
(B) Descending order  
(C) Random order  
(D) Depends on the order() method
6. What is the numerical range of a char data type in Java?  
(A) 128 to 127  
(B) 0 to 256  
(C) 0 to 32767  
(D) 0 to 65535

7. Which of the following can be operands of arithmetic operators?
- (A) Numeric
  - (B) Boolean
  - (C) Characters
  - (D) Both Numeric & Characters
8. 8 byte long data type can be automatically type cast to 4 byte float data type.
- (A) True
  - (B) False
9. Which of this keyword can be used in a subclass to call the constructor of superclass?
- (A) super
  - (B) this
  - (C) extent
  - (D) extends
10. What is the process of defining a method in a subclass having same name & type signature as a method in its superclass?
- (A) Method overloading
  - (B) Method overriding
  - (C) Method hiding
  - (D) None of the mentioned
11. What is the return type of Constructors?
- (A) int
  - (B) float
  - (C) void
  - (D) None of the mentioned
12. Give the abbreviation of AWT?
- (A) Applet Windowing Toolkit
  - (B) Abstract Windowing Toolkit
  - (C) Absolute Windowing Toolkit
  - (D) None of the above

13. Which is the container for the following components like button, text, etc.
- (A) Panel
  - (B) Frame
  - (C) Window
  - (D) Container

14. AWT is used for creating GUI.
- (A) True
  - (B) False

15. Swing is a part of AWT.
- (A) True
  - (B) False

16. The ActionListener interface is used for handling the events of the buttons.
- (A) JButton
  - (B) JCheckBox
  - (C) JRadioButton
  - (D) All of the above

17. Which of the following is not a container?
- (A) Panel
  - (B) Window
  - (C) Frame
  - (D) Dialog

18. Which of the following is not a container?
- (A) Panel
  - (B) Window
  - (C) Frame
  - (D) Dialog



13. Which is the container that contain title bar and can have MenuBars. It can have other components like button, textfield etc.?
- (A) Panel
  - (B) Frame
  - (C) Window
  - (D) Container
14. AWT is used for GUI programming in java.
- (A) True
  - (B) False
15. Swing is not a part of JFC (Java Foundation Classes) that is used to create GUI application.
- (A) True
  - (B) False
16. The Action Listener interface is used for handling action events, For example, it's used by a :
- (A) JButton
  - (B) JCheckbox
  - (C) JMenuitem
  - (D) All of these
17. Which of these methods can be used to know which key is. pressed?
- (A) getActionEvent()
  - (B) getActionKey()
  - (C) getModifier()
  - (D) getKey()
18. What is the Lifecycle of an applet?
- (A) init( ) method
  - (B) start( ) method
  - (C) paint( ) method
  - (D) All of these

19. Which of the following contains both date and time?
- (A) java.io.date
  - (B) java.sql.date
  - (C) java.util.date
  - (D) java.util.dateTime
20. Which of the following is used to limit the number of rows returned?
- (A) setMaxRows(int i)
  - (B) setMinRows(int i)
  - (C) getMaxrows(int i)
  - (D) getMinRows(int i)
21. Which of the following is used to rollback a JDBC transaction?
- (A) rollback()
  - (B) rollforward()
  - (C) deleteTransaction()
  - (D) RemoveTransaction()
22. Which case of a session bean obtains the UserTransaction object via the EJBContext using the getUserTransaction() method in EJB transaction management?
- (A) Bean-managed transactions
  - (B) Container-managed transactions
  - (C) Both A & B
  - (D) None of the above
23. Which of the following is not an Enterprise Beans type?
- (A) Doubleton
  - (B) Singleton
  - (C) Stateful
  - (D) None of these
24. Which attribute is used to specify destroy method?
- (A) destroy
  - (B) destroy-method
  - (C) destruction
  - (D) destruction-method

25. Applica
- (A) jav
  - (B) jav
  - (C) jav
  - (D) ja

26. Which
- (A) I
  - (B) I
  - (C) C
  - (D) C

27. Which
- (A)
  - (B)
  - (C)
  - (D)

28. Wh
- (A)
  - (B)
  - (C)
  - (D)

29. W
- (A)
  - (B)
  - (C)
  - (D)

30. V
- (A)
  - (B)
  - (C)
  - (D)



25. Application is instance of which class?
- (A) javax.servlet.Application
  - (B) javax.servlet.HttpContext
  - (C) javax.servlet.Context
  - (D) javax.servlet.ServletContext
26. Which one is the correct order of phases in JSP life cycle?
- (A) Initialization, Cleanup, Compilation, Execution
  - (B) Initialization, Compilation, Cleanup, Execution
  - (C) Compilation, Initialization, Execution, Cleanup
  - (D) Cleanup, Compilation, Initialization, Execution
27. Which of these keywords is used to define interfaces in Java?
- (A) interface
  - (B) Interface
  - (C) intf
  - (D) Intf
28. Which of these keywords is used by a class to use an interface defined previously?
- (A) import
  - (B) Import
  - (C) implements
  - (D) Implements
29. Which of these keywords is used to generate an exception explicitly?
- (A) try
  - (B) finally
  - (C) throw
  - (D) catch
30. Which of these class is related to all the exceptions that are explicitly thrown?
- (A) Error
  - (B) Exception
  - (C) Throwable
  - (D) Throw

31. Which of these operator is used to generate an instance of an exception than can be thrown by using throw?
- (A) new
  - (B) malloc
  - (C) alloc
  - (D) thrown
32. Which of the following contains both date and time?
- (A) java.io.date
  - (B) java.sql.date
  - (C) java.util.date
  - (D) java.util.dateTime
33. Which of the following is not OOPS concept in Java?
- (A) Inheritance
  - (B) Encapsulation
  - (C) Polymorphism
  - (D) Compilation
34. Which of the following is a type of polymorphism in Java?
- (A) Compile time polymorphism
  - (B) Execution time polymorphism
  - (C) Multiple polymorphism
  - (D) Multilevel polymorphism
35. Which concept of Java is a way of converting real world objects in terms of class?
- (A) Polymorphism
  - (B) Encapsulation
  - (C) Abstraction
  - (D) Inheritance