

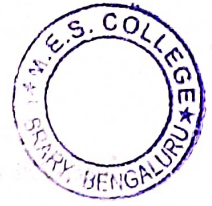


MS – 371

VI Semester B.A./B.Sc. Examination, May 2016
(Freshers) (Semester Scheme) (2015 – 16 Only)

COMPUTER SCIENCE – VII

Object Oriented Programming using Java



Time : 3 Hours

Max. Marks : 70

Instruction : Answer *all* the Sections.

SECTION – A

I. Answer **any ten** questions. Each questions carries **two** marks. (2×10=20)

- 1) Mention the different access specifiers used in JAVA.
- 2) What is the purpose of import statement ?
- 3) Mention any two differences between C and JAVA.
- 4) What is a Byte Code ?
- 5) Mention the two ways in which a thread can be created in JAVA.
- 6) What is an applet ? Write the syntax and an example of applet.
- 7) What is finalizer method ? Give an example.
- 8) What is a package ? Mention any two API packages of JAVA.
- 9) How do we set priority of a Thread ? Give example.
- 10) What is a wrapper class ? Mention the method used to convert a string to primitive data type.
- 11) What is JVM ? Explain.
- 12) What is an abstract class ?

P.T.O.



SECTION – B

II. Answer **all** the questions. **Each** question carries **ten** marks.

(10×5 = 50)

13) a) Explain any five features of JAVA. 5

b) What is command line arguments ? Explain with an example. 5

OR

a) Explain loops in JAVA with example. 5

b) Explain switch statement with an example. 5

14) a) What is inheritance ? Explain the different types of inheritance used in JAVA. 5

b) Explain super and this keyword in JAVA with an example. 5

OR

a) Explain static members with example. 5

b) Explain final keyword with example. 5

15) a) What is constructor ? Explain the different types of constructors. 5

b) Write a JAVA program to find area of a cube using different types of constructors. 5

OR

a) Explain any five string functions with example. 5

b) Write a JAVA program to reverse a string. 5

16. a) What is an interface ? Explain defining and implementing interfaces with an example. 5

b) Differentiate between method overriding and method over loading. 5

OR



- a) Explain scope of variables with example. 5
- b) Discuss various visibility modifiers used in JAVA. 5
- 17) a) What is a thread ? Explain thread life cycle of JAVA. 5
- b) What is an exception ? Explain exception handling mechanism of JAVA. 5

OR

- a) Explain the applet life cycle mechanism of JAVA. 5
 - b) What is a stream ? Explain different types of stream classes. 5
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MS – 373



VI Semester B.A./B.Sc. Examination, May/June 2016
(Semester Scheme) (Fresh) (2015-16 only)
COMPUTER SCIENCE – VIII
Computer Networks



Time : 3 Hours

Max. Marks : 70

Instruction : Answer *all* the Sections.

SECTION – A

- I. Answer **any ten** questions. **Each** question carries **two** marks. (10×2=20)
- 1) What is a Computer Network ?
 - 2) What is Amplitude Modulation ?
 - 3) State Shannon-Theorem.
 - 4) What is Modem ?
 - 5) What is Multicast address ?
 - 6) Define Network Topology. Name any two network topologies.
 - 7) What is Adaptive bridge ?
 - 8) What is congestion collapse ?
 - 9) What is Repeater ?
 - 10) Why bridges are used in LAN ?
 - 11) Differentiate between Intra-domain Routing and Inter-domain Routing.
 - 12) Explain caching in Web Browsers.

SECTION – B

- II. Answer the following questions. **Each** question carries **ten** marks. (5×10=50)
- 13) a) Explain Network layer of OSI reference model. 5
 - b) Explain optical transmission system with a neat diagram. 5
- OR
- a) Explain data transmission using RS232C interface. 5
 - b) Explain Time Division Multiplexing. 5

P.T.O.



- 14) a) Write a note on transmission errors. 5
- b) Explain star Network. List its advantages. 5
- OR
- a) Explain parity check method used to detect errors in network systems. 5
- b) Explain the working of token ring networks. 5
- 15) a) Explain CSMA/CD used to access shared medium in LAN. 5
- b) Explain the working of dial-up modem. 5
- OR
- a) Write a note on Broadcast, satellite systems. 5
- b) Explain network performance characteristics. 5
- 16) a) Explain various classes of IP addresses. 5
- b) Explain the steps involved in ARP message delivery. 5
- OR
- a) Write a short note on Flooding. 4
- b) Compare static and Dynamic routing. 6
- 17) a) Explain TCP services. 7
- b) Explain any three special IP addresses. 3
- OR
- a) Write a brief note on WWW. 6
- b) Compare IPv4 and IPv6. 4
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