

2019-22

Time : 3 hours

Full Marks : 70

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

The figures in the margin indicate full marks.

Answer from both the Group as directed.

Group – A

Answer any four questions of the following :

$$10 \times 4 = 40$$

1. What is the software required for Multimedia Computer ? Explain.
2. What are the uses of multimedia in the field of production ?
3. Explain the interactive system for teaching and learning.
4. Explain, in detail, about authoring in multimedia.

OE – 49/2

(Turn over)



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5. Write notes on the following :
- Multimedia Tools
 - Elements of hypertext
6. Write about the application of hypertext.
7. What is distributive learning environment ? Explain.
8. Discuss the following :
- Authoring tools
 - Application areas of multimedia

Group - B

Answer all questions : $3 \times 10 = 30$

- What is Multimedia ?
- What is med-net ?
- What is hypertext ?
- Write the advantages of multimedia.
- What is animation ?
- What do you mean by Consultation System ?

Contd.

OE - 49/2 (400)

(3) VUG(4) — BCA (4001)
Comp. Graph.

2019-22

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Answer from both the Groups as directed

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GROUP-A

Answer any four questions : 10 × 4

1. List out and explain briefly the various services that the operating system provides to program and uses.
2. Explain the different system components of an operating system.
3. What are system calls ? Explain the different categories of system calls.

(2)

4. What is process ? Explain the process states with diagram ? Also explain PCB in detail.
5. For the following set of processes, find the average waiting time and average turn around time using ganttchart for
- FCFS $W.T = 0.75, T.A.T = 7.5$
 - SJF preemptive $W.T = 3.4, T.A.T = 3$
 - SJF non-preemptive $W.T = 5.4, T.A.T = 7.25$
- | Process | Arrival time | Burst time |
|---------|--------------|-----------------------------|
| P_1 | 0 | 4, $\cancel{2}, \cancel{1}$ |
| P_2 | 1 | $\cancel{2}, \cancel{1}$ |
| P_3 | 2 | 5 |
| P_4 | 3 | 4 |
6. What is fragmentation ? Explain its types and disadvantages.
7. Explain the disk structure. Also explain the methods for free space management.
8. What is paging ? Explain with example.

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(Continued)

(3)

- GROUP-B
9. Answer all questions : 3×10
- What is system call ?
 - What is preemptive and non-preemptive scheduling ?
 - What are the different scheduling criteria ?
 - What is swap space management ?
 - What is the difference b/w multi-tasking operating system and multi-programming operating system ?
 - What is contiguous and non-contiguous memory allocation ?
 - What is segmentation ?
 - What is the structure of file system ?
 - Explain the storage Hierarchy.
 - What are the goals of protection ?

2019-22

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Answer from both the Sections as directed.

Section – A

Answer any four questions of the following :

$$10 \times 4 = 40$$

1. What is HTML ? Explain structure of HTML document in detail.
2. What is List in HTML ? Explain different types of list with their examples.

(Turn over)

OE - 74/2



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3. What is the purpose of creating tables in HTML ?
Explain different attributes of table with example.
4. Why we use form in HTML document ? Explain different form controls in detail.
5. How web pages can be linked using <a> tag ? Also explain how anchor is used for navigation on the same page ?
6. Why we use CSS in web page ? Explain different types of CSS with examples.
7. Explain different types of Selectors used in CSS.
8. What is PHP ? Why we use PHP ? Explain features of PHP.
12. What are the purpose of web browser ?
13. Why we use font tag ?
14. How image can be added as a link ?
15. What is HTTP ?
16. Explain difference between GET and POST method.
17. What is float in HTML ?
18. How Sound and Video is added in HTML page ?

Section - B

Answer all questions : $3 \times 10 = 30$

9. What is block level element and In-line element ?
10. What are the tags used for styling text ?
11. Explain role of Div tag.

OE - 74/2 (400) (3) VUG(4) — BCA (4003)
HTML

2019-22

Full Marks : 70

Time : 3 hours

Answer from both the Sections as directed.

The questions are of equal value.

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

SECTION-A

Answer any four questions in all.

Q.No.1 is compulsory.

1. (a) Discuss various features of .net framework.
(b) How .net supports IDE ?
(c) Explain need of built-in functions in C#. List out the various built-in functions that are available.

(Turn Over)



(2)

2. What do you mean by Visual and Non-Visual Programming, Procedural, Object-Oriented Programming Language ? Explain in detail.
3. Describe how C# support multiple inheritance ? Explain by giving examples.
4. What is a .net assembly ? How to build shared assembly ? Explain in detail with a program.
5. Explain arrays in C# using a program.
6. Write a C# program to do the following on complex numbers C1 asnd C2 using operator overloading
 $C1 + C2, C1 - C2, C1 != C2$
7. Describe in short the following controls. Develop an application with each control.
(i) Checkbox
(ii) Radio button
8. Explain about Data Access with .NET.

(3)

SECTION-B

Answer all the questions :

9. Define CLR and list down its responsibilities.
10. Define operators and casts.
11. Distinguish between error and exception.
12. Define predecessors.
13. What is Data Adapter?
14. Explain need of Data Set and Data Table.
15. Write looping structures available in C#.
16. Explain significance of Data Grid View control.
17. Explain any one method and two events of a list box.
18. Explain any two properties of Date Time Picker.

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Answer from both the Sections as directed.

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SECTION-A

Answer any four questions. 10×4

1. Explain OSI Model. Also explain different layers and its functions of OSI Model.
2. Explain Data Communication. Also explain different components of data communication model.
3. Explain Transmission Media. Also explain guided and unguided Media.

(Turn Over)



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(2)

4. Explain different types of networks. Also explain Internetworking.
5. Explain Flow and Error control procedure. Also explain selective repeat ARQ.
6. What are the different functionalities of network layer ? Explain Routing in detail.
7. Explain different functionalities of Transport layer. Also explain TCP connection.
8. Explain the following :
 - (i) URL
 - (ii) HTTP
 - (iii) WWW
 - (iv) DNS

SECTION-B
Answer all the questions : 3×10

9. Explain Error detection process.
10. Explain the advantages of star topology.

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VUG(4)-BCA(4X5)

(Continued)

11. Explain the characteristics of LAN.
12. Explain twisted pair cable.
13. Explain Data rate.
14. Why Retransmission is used for Error control ?
15. What are the responsibilities of router in network layer ?
16. Explain process to process delivery.
17. Explain FTP in short.
18. Explain Network Management Protocol. Also explain SNMP in short.

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HZ-400