

2021-24

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 Groups as directed.

Group – A

Answer any four questions of the following :

10×4 = 40

1. Write and explain the software for Multimedia.
2. Discuss about production and distribution of Multimedia.
3. Explain Communication technology and Multimedia services.

4. What is the role of Multimedia in Business ?
Discuss.
5. Explain Interactive systems for teaching and learning.
6. Write about multimedia development tools.
7. Explain Multimedia authoring.
8. Explain the Authoring tools.

Group – B

9. Answer all questions of the following :

3×10 = 30

- (a) What is Multimedia ?
- (b) What is Interactive Multimedia ?
- (c) Mention some image formats used in Multimedia.
- (d) What is e-learning ?
- (e) What is the use of self-paced learning ?
- (f) What are the areas where multimedia applications are used ?

- ~~(g)~~ Write about the elements of Hypertext.
- ~~(h)~~ What is Animation ?
- ~~(i)~~ What is Med-net ?
- ~~(j)~~ Write the components of Multimedia.



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Group – A

Answer any four questions of the following :

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1. What is Operating System ? Explain different types of task done by O.S.
2. Explain architecture of different operating system structure.

3. Consider the following five processes, each having its own unique burst time and arrival time :

Process	Burst Time	Arrival Time (in MS)
P ₁	6	2
P ₂	2	5
P ₃	8	1
P ₄	3	0
P ₅	4	4

Calculate average waiting time and average turn around time.

4. Explain different Disk Scheduling algorithm :
SCAN, C SCAN, C LOOK.

5. Consider a reference string 4, 7, 6, 1, 7, 6, 1, 2, 7, 2. The numbers of frames in the memory is 3. Find out the number of page faults respect to :

- (a) Optimal Page Replacement Algorithm
(b) FIFO Page Replacement Algorithm.

6. Explain the difference between Paging and Segmentation.
- ✓ 7. Explain about single level, two level, and tree directory structure.
- ✓ 8. Explain different space allocation methods on disk space.
- ✓ 9. What are the different types of operating system ? Explain them in detail.
- 10. Explain about contiguous memory allocation. Also differentiate internal fragmentation and external fragmentation.

Group – B

11. Answer all questions of the following :

3×10 = 30

- * (a) Differentiate tightly Coupled System and Loosely Coupled System.
- ✓ (b) What is real time system ?
- (c) What is co-operative process ? What are the benefits of co-operating process ?

- (d) What are the use of job queue, ready queue and device queue ?
- (e) What is Preemptive and Non-preemptive scheduling ?
- (f) What is a File ? List the various file attributes.
- (g) How free space is managed using bit vector implementation ?
- (h) Define seek time and latency time.
- (i) What is Virtual Memory ?
- (j) Explain Process States.



Ready
Process
Summary
terminated
Suspended

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Answer from both the Sections as directed.

Section – A

Answer any **four** questions of the following :

10×4 = 40

✓ 1. What is HTML ? Explain basic structure of HTML document in detail.

✗ 2. (a) Explain all text formatting tags used in HTML.

(b) What is special characters ? How they are added in HTML Page ?

3. What is LIST in HTML ? Explain types of list with examples.
4. (a) What is CSS ? Why is it important ?
(b) Write HTML Code that shows the use of Internal CSS.
5. (a) What is PHP ? Explain properties of PHP.
(b) Write steps of connecting database in PHP.
6. (a) What is the purpose of Anchor tag ? Explain with HTML Code.
(b) How will you add image in webpage ? Explain.
7. What is Forms in HTML ? Explain all form elements that are used in HTML. Give example.
8. Explain different attributes of < table > tag. Write HTML Code for showing attributes of < table > tag.

Section – B

9. Answer all questions of the following :

3×10 = 30

- (a) Explain heading tag.
- (b) How sound and video are added in web page ?
- (c) Explain purpose of < div > tag.
- (d) What is "id" selector in CSS ?
- (e) Explain "class" selector of CSS.
- (f) What is session in PHP ?
- (g) Explain HTML semantics.
- (h) What is purpose of server ?
- (i) Explain < font > tag with its attribute.
- (j) Explain purpose of < HR > tag and < p > tag.



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Answer from both the Sections as directed.

Section – A

Answer any four questions of the following :

10×4 = 40

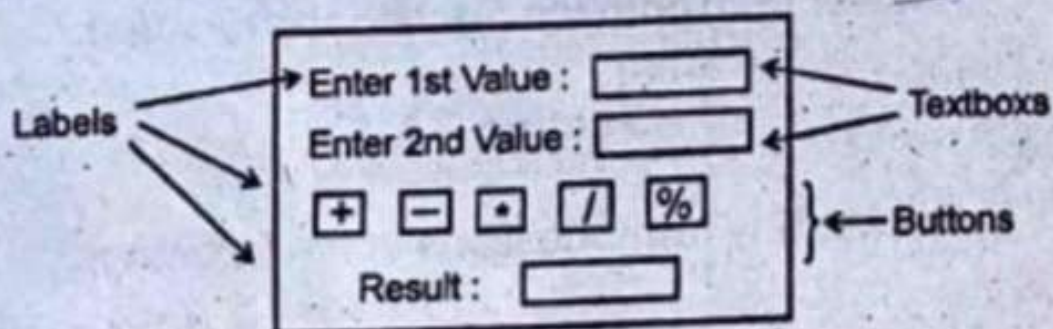
1. What are the features of .Net Framework design ? **5**
2. Discuss about the components of the .Net Framework architecture. **3**
3. What is Operator ? What are the types of operators in C# ? Discuss. **3**

4. What is assembly in .Net ? And write a program for creating private DLL Assembly, and create another program for using the created private assembly.

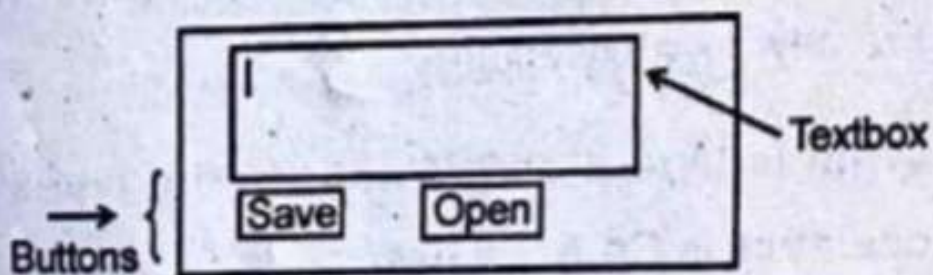
5. (a) What are the differences between private assembly and shared assembly ?

(b) Write down about the benefits of Assemblies.

6. Write a window based program for performing the architecture operations :



7. Write about the Save File Dialog and Open File Dialog controls and also, write a program with respect to these controls :



8. Write about the ADO.Net, and discuss about important classes of the ADO.Net.

Section – B

9. Answer all questions of the following :

3×10 = 30

- (a) Write about the CLR. 2
- (b) What do you mean by Enumeration?
- (c) Write about the Conditional Operator.
- (d) Write a console based program in C# for finding the greatest value between 2 values. 2
- (e) Write a note on while loop. 2
- (f) What do you mean by side-byside execution? 1
- (g) Write a short note on public assembly.
- (h) Write about the properties window of the visual studio IDE. 2
- (i) Write about the Message Box Class. 1
- (j) What is DataGridView Control?



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Answer from both the Sections as directed.

Section – A

Answer any **four** questions of the following :

10×4 = 40

1. What are the uses of Computer Networks ?
2. Describe OSI model with function of each layer.
3. Explain different types of routing and congestion control algorithms.

4. What is Baseband and Broadband Communication ? Explain.
5. What is mean by a socket ? Write the difference between active and passive sockets.
6. Differentiate between Hubs and Switches.
- 7. Explain LAN, WAN and MAN and Protocols associated with each of these networks.
- 8. What are Topologies ? Compare and contrast Star and Ring topology with diagram of each.

Section – B

9. Answer all questions of the following :

3×10 = 30

(a) What is guided media ?

(b) What are the design issues of Data Link Layer ?

(c) What are the services provided by Transport Layer ?

(d) What do you mean by Protocol ?

(e) What is Bluetooth ? Explain.

- (f) What are the elements of Multimedia ?
- ~~(g)~~ Describe the application areas of ISDN.
- 14 ~~(h)~~ What is Telnet ? Where it is used ?
- ~~(i)~~ Explain the function of Router Bridge.
- (j) Explain the following terms :
- ~~(i)~~ DNS
 - ~~(ii)~~ TCP
 - (iii) MAC Layer

