ANDHRA UNIVERSITY

Telegrams: UNIVERSITY Telephone: 284 4000 Fax: 0891-2755324



No. L I (2)/U.G. Courses/MQP/2021

All Official letters, packages etc, should be addressed to the Registrar by designation and not by name.

Visakhapatnam, Dt: 15-11-2021

From: THE REGISTRAR

To

The Controller of Examinations, Andhra University, Visakhapatnam.

Sir,

Sub:

Approval of Model Question Paper - Reg.

Ref:

B.Sc. Model Question Paper, received from the Board of Studies in

Chairman, U.G. courses.

With reference to the above, I am by direction to inform you that the Choice Based Credit System, U.G. Courses (w.e.f. 2020-2021) Model Question Paper A has been approved as detailed below:

S.No.	Subject	Name & Designation	Name of the College/Others	Model question papers	Name of the Paper
1.	B.Sc. Bachelor of Computer Applications (BCA)	Chairman, Board of Studies in Computer Science (U.G.)	Prof. S. Pallam Setty, Computer Science and System Engineering, Andhra University	II-Semester	Data Structures using C

Hence, I request to arrange to circulate the same among the Teaching Staff and Students concerned and placed in A.U. website.

Yours faithfully,

(K. UMA MAHESWARI)
DEPUTY REGISTRAR (ACADEMIC)

Copies to:

1. The Dean of Academic Affairs, A.U., VSP.

2. The Dean, U.G. & P.G, Professional Courses, A.U., Vsp.

3. The Dean, CDC, A.U., Vsp.

4. The Dean, Confidential, A.U., Vsp.

- 5. All Principals, A.U. Affiliated Colleges Offered in U.G. courses.
- 6. The Superintendent S.I Section for taking necessary further action.
- 7. The Secretary to V.C., Rector Table, P.A. to Registrar, A.U., Vsp.
- 8. The Director, Computer Centre, A.U., Vsp.
- 9. O.C. & O.O.F.

Model paper B.Sc with Computer Science Data Structures using C

Answer any five questions first question compulsory.

Max Marks:75

1.a.Differentiate between linear and non linear Data-Structure? b.What are the different applications of Queue and Stack?

5x3≈15

c.What are binary trees?Expalin how it is represented?

d.with an example, explain the algorithms of postorder to inorder traversal? e.Describe any two terms from the following: Node, Null pointer, empty list with

respect to linear linked list with diagram?

2.a.What are the different Data types and their representations? b.What are the different approaches to designing an algorithm?

5x12=60

- 3.a.What is Multidimensional Array.Explain in detail? b.What is pointer.Write a simple C program?
- 4.a.Differantiate between array and stack? b. Explain in detail about Circular Queues and Priority Queues?
- 5.a.What is Bubble Sort.Write a c program for Bubble Sort? b. What is merge sort. Explain with an example?
- 6.a.What are binary trees?How it is represented. b.What are the applications of Graphs?
- 7.a.Convert infix to postfix notation $a+(b*c-(d/e^f)*g)*h$? b.What is inorder. How to Convert inorder to postorder with an example?
- 8.a.What is Spanning tree.Describe taking an example 'linked representation' of

b.Distinguish between Bredth First Search(BFS) and Depth First Search in the contect of graphs?

prof.S.Pallamsetty Computer Science and System Enginerring Andhra University