The Controller of Examinations,
Andhra University,
Visakhapatnam.

Sub: Approval of Model Question Papers – Reg.

Ref: Email dt 09-11-2021 along with Model Question Papers.

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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 Papers have been approved as detailed below:

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<tr>
<th>S.No.</th>
<th>Subject</th>
<th>Name &amp; Designation</th>
<th>Name of the College/Others</th>
<th>Model question papers</th>
<th>Name of the Paper</th>
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<td>1</td>
<td>B.Sc. Fisheries</td>
<td>Principal &amp; Lecturer</td>
<td>Gayatri Degree College, Parvathiipuram</td>
<td>II-Semester</td>
<td>Capture Fishery</td>
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<td>2</td>
<td>Data Science &amp; Internet Things</td>
<td>Chairman, Computer Science (U.G.)</td>
<td>Prof. S. Pallam Setty, Computer Science and System Engineering, Andhra University</td>
<td>II-Semester</td>
<td>1.Data Science with R 2.Internet of Things</td>
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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.
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.
[BS - S.1224]

B.Sc. DEGREE EXAMINATION.
First Year - Second Semester
(Under CBCS pattern)
Part II: Fisheries

CAPTURE FISHERY

 áp (from 2015-2016 admitted batch)

Time: Three hours
Maximum: 75 marks

PART A — (5 x 5 = 25 marks)
Answer any FIVE from the following Eight questions.

1. Indian Riverine systems.
   ఉత్తరాధిక నది సమితుల.

2. Chilika lake fishery.
   చిలికా లేకం మిశ్రమ వైస్య జాతుల.

3. East coast estuaries.
   తమిళనాడు మధ్యమ జాతుల.

4. Molluscan fishery.
   మోల్లసక వైస్య జాతుల.
5. Oil Sardines.
అసలు చిద్ర చెట్టు.

కృష్ణ వద్ద నదియున్న పరతినా మాత్రమే.

7. Fishing Gear.
వేగ విస్తార.

8. Pomfrets.
పోమ్ఫెట్లు.

PART B — (5 x 10 = 50 marks)
Answer the following (ONE from each Unit).

UNIT I

9. Discuss the riverine fishery of west coast of India.
మార్గదర్శన నది పరతినా నదీలులో న్యాయాన్ని
మాత్రమే.

10. How do you manage the riverine fisheries?
రాశిలు నిర్వహణ నది పరతినా ప్రాంభిక నాణ్యం
వంచిస్తారు.
UNIT II

11. Give an account on Reservoir fisheries.

12. Discuss the steps to develop and manage reservoir fisheries.

UNIT III

13. Give an account on Fishery resources Estuary.

14. Write an essay on Fishery of Pulicat Lagoon.
UNIT II

11. Give an account on Reservoir fisheries.

అండపండ్యమైన మాటాడికిడారి కనుక వివరించండి.

12. Discuss the steps to develop and manage reservoir fisheries.

హాయంకొరకు మంచి వ్యాసాలను విధించి మాటం
మాటాడికిడారి విరాగణించి దర్శనం కదాచ
వినీతం.

UNIT III

13. Give an account on Fishery resources Godavari Estuary.

గడవరి వై వల్లములు పతనములుకు మంచి వ్యాసాలను
కదాచ వినీతం.

14. Write an essay on Fishery of Pulicat lake.

పులికాట విశాఖాని మంచి వ్యాసాలను కదాచ అన
త్రంగి వినీతం.

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UNIT II

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12. Discuss the steps to develop and manage reservoir fisheries.

UNIT III

13. Give an account on Fishery resources Godavari Estuary.

14. Write an essay on Fishery of Pulicat lake.

[BS - S 1224]
UNIT IV

15. Describe the craft employed in capturing fish.

16. Describe the general characters and reproduction in Seerfish.

UNIT V

17. Give an account on the food and feeding habits and reproduction in Elasmobranch fish.

18. Describe the general characters and food and feeding habits of Bombay duck.

[BS - S 1224]
Model Question Paper
B.Sc I-II Semester
Data Science With R

Answer any five questions first question compulsory. Max marks:75 Time:3hrs

1.a. What is Data Science?
   b. What are Matrix Plots?
   c. Explain vectorized operations in R-Language?
   d. What is semi-structured data?
   e. What are input and output in R-Language?

2.a. Explain the different stages of Data Science?
   b. What are the goals of Data Science?

3.a. Write in detail about Linear and Logistic Regression?
   b. Explain about matrices in R?

4.a. Explain about different graphical parameters in R?
   b. Explain about reading data from files?

5.a. Explain about Lists in R Language?
   b. What are R-ordered factors?

6.a. What is Data Visualization. Explain in detail about Data Visualization in R?
   b. What are the various types of graphs drawn using R?

7.a. Explain are R-lists and R-factors?
   b. What are the data frames? Write its significance in R-Language?

8.a. What are the applications of Data Science?
   b. What are the different types of Visualizations in R?

Prof. S. PallamSetty,
computer science and System Engineering,
Andhra University.
Model Question Paper
B.Sc I-II Semester
Internet Of Things

Answer any five questions first question compulsory. Max marks: 75 Time: 3hrs

1. a. What is Internetworking?  
   b. Define Sensor and Actuator?  
   c. What is WPAN?  
   d. What is Hadoop?  
   f. What is Data Acquisition?

2. a. What are the characteristics of IOT?  
   b. Explain the architecture of IOT reference model?

3. a. What is RFID. Define RFID Principles and Components?
   b. What is WSN. Explain in detail of Sensor Networks?

4. a. What is an RPL. Explain in detail?
   b. Different types of WPAN Technologies for IOT?

5. a. Explain characteristics of Big data?
   b. What are the applications of IOT?

6. a. What is data handling and analytics in IOT?
   b. Explain the architecture of Zigbee?

7. a. Discuss in detail about 6LoWPAN and COAP Protocols?
   b. Explain Hadoop Architecture Model?

8. Write a note on  
   a. REST  
   b. NFC  
   c. BLE

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