# Sri Krishna Arts and Science College
# Coimbatore - 641008
# (Autonomous)

## Office of the Controller of Examinations

## Annual Report

## 2017 - 2018

# Contents

# 1. Introduction

The Office of the Controller of Examinations of Sri Krishna Arts and Science College is an Autonomous Body. It is endowed with well-defined responsibilities and adequate authority to conduct fair and timely examinations (as per the academic calendar of the college) for the UG/PG Programmes. It is committed to impart high quality, competency based education.

All Examination related work is automated. The Examination departments envisages the need for radical reforms in traditional examination and assessment system and are working towards evolving a credible, valid, and effective evaluation system that responds confidently to the challenges and newer demands of a knowledge society. We have set ourselves for adopting technology to facilitate easy interface for exchange of information. Devise and monitor strategies and implementation of useful examination practices. Implemented ERP-based Examination automation system. Online mode of examination form filling that will help generate student summary & Hall Tickets to optimize time and eliminate errors.

Online processes such as

- Students exam registration process
- Configuration of subject codes
- Faculty Internal marks entry
- Issue of Application forms
- Examination timetable
- Issue of Hall tickets
- Attendance sheet generation Compilation of marks
- Hall planning
- Galley Generation
- Results analysis report
- Declaration of results
- Mark statements
- Degree Certificates
- Ranks to the qualified candidates during convocation every year

| No of UG Programmes | 26 |
|---|---|
| No of PG Programmes | 12 |
| Total | 38 |

**Time Line - Office of Controller of Examinations**

| | |
|---|---|
| Syllabi Confirmation | Odd semester – May |
| | Even semester – November |
| Generation of Roll No for I year Programmes | Odd semester – August |
| Preparation of Nominal Roll for all Programmes | Odd semester – August/September |
| | Even semester – January |
| Last date to submit Course Subscription List | Odd semester – May |
| | Even semester - November |
| Continuous Assessment Tests I and II commence respectively on the 35th and 70th working day of every semester | Odd semester – August/September |
| | Even semester – January/March |
| Registration for Arrears Examination | Odd semester – August/September |
| | Even semester – January |
| Examination Fee Collection | Odd semester – September/October |
| | Even semester – January/February |
| Timetable for End Semester Examinations | Odd semester – October |
| | Even semester – March |
| Hall Ticket and Internal Mark Processing | 3 days before the commencement of examinations |
| Commencement of End Semester Examinations | Odd semester – November |
| | Even semester – April |
| Publication of Results | In the college website – within 15 days from the last date of examinations |
| Receipt of applications for Transparency/ Revaluation / obtaining photocopy of answer scripts | 10 days from the date of declaration of results |
| Issue of Mark sheets | Odd semester – December |
| | Even semester – June |

# 2. Tentative Examination – Calendar – ODD

**SRI KRISHNA ARTS AND SCIENCE COLLEGE**
**COIMBATORE-641008**
**TENTATIVE EXAMINATION SCHEDULE FOR 2017-18**
**ODD SEMESTER EXAMINATION NOVEMBER 2017**

| | |
|---|---|
| Last date for submission of IET list to the Controller Section | - 30-05-2017 |
| Dispatch of time table for III Years V Semester - Part A Examination | - 13-07-2017 |
| Dispatch of Hall-Ticket | - 25-07-2017 |
| Commencement of Theory Examinations for III Years V Semester - Part A | - 28-07-2017 |
| Examination to be over by | - 30-07-2017 |
| Calling for EDC list for Even Semester | - 26-09-2017 |
| Calling for PG Optional papers list for Even Semester | - 26-09-2017 |
| Last date for submission of above list to the Controller Section | - 30-09-2017 |
| Issue of application forms for I years UG and PG - Odd Semester Examination | - 30-09-2017 |
| Last date for payment of examination fee and submission of filled-in applications for I year UG and PG        Without fine | - 03-10-2017 |
| With fine | - 08-10-2017 |
| Last date for payment of arrear and additional credits examination fee and submission of filled-in applications for II and III UG and II PG | |
| Without fine | - 06-07-2017 |
| With fine | - 13-07-2017 |
| Calling for Practical Examination Schedule | - 26-09-2017 |
| Last date for submission of Practical examination schedule | - 30-09-2017 |
| Commencement of Practical Examination (on or after)           U.G. & P.G. | - 13-10-2017 |
| Last date for completion of Practical Examinations           U.G. & P.G. | - 25-10-2017 |
| Calling for Lack of Attendance list for Odd Semester | - 01-10-2017 |
| Last date for submission of Lack of Attendance list | - 05-10-2017 |
| Calling of Attendance and CIA Proforma for Odd Semester | - 01-10-2017 |
| Last date for submission of Attendance Proforma | - 05-10-2017 |
| Last date for submission of CIA Proforma | - 17-10-2017 |
| Dispatch of time table for Even Semester Examination | - 10-10-2017 |
| Dispatch of Hall-Ticket - Practical | - 10-10-2017 |
| Theory | - 22-10-2017 |
| Commencement of Theory Examinations           U.G. & P.G. | - 26-10-2017 |
| Examination to be over by           U.G. & P.G. | - 16-11-2017 |
| Commencement of Central Valuation           U.G. & P.G. | - 17-11-2017 |
| Date of publication of Results (on or before)           U.G. & P.G. | - 21-12-2017 |
| Date of dispatch of statement of marks to Department           U.G. & P.G. | - 31-01-2017 |

PRINCIPAL

# Tentative Examination – Calendar - EVEN

## SRI KRISHNA ARTS AND SCIENCE COLLEGE
## COIMBATORE-641008
## TENTATIVE EXAMINATION SCHEDULE FOR 2017-18
## EVEN SEMESTER EXAMINATION APRIL 2018

1. Last date for submission of subscription list
   - 25-12-2017
2. Last date for payment of arrear/additional credits examination fee and submission of Filled-in applications
   - 22-01-2018
3. Calling of Practical Examination Schedule
   - 14-02-2018
4. Last date for submission of Practical examination schedule
   - 20-02-2018
5. Commencement of Practical Examination (on or after)
   U.G. & P.G.
   - 27-03-2018
6. Last date for completion of Practical Examinations
   U.G. & P.G.
   - 12-04-2018
7. Calling of Optional papers list for Odd Semester
   - 09-03-2018
8. Calling for Basic Tamil/Advanced Tamil student list for Odd Semester
   - 09-02-2018
9. Last date for submission of above list to the Controller Section
   - 15-02-2018
10. Calling of Lack of Attendance list for Even Semester
    - 12-03-2018
11. Last date for submission of Lack of Attendance list
    - 16-03-2018
12. Calling of Attendance and CIA Proforma for Even Semester
    - 20-03-2018
13. Last date for submission of Attendance Proforma
    - 23-03-2018
14. Last date for submission of CIA Proforma
    - 03-04-2018
15. Dispatch of time table for Odd Semester Arrear /Additional Credits Examination
    - 05-02-2018
16. Dispatch of time table for Even Semester Examination
    - 21-03-2018
17. Dispatch of Hall-Ticket, Nominal Roll details
    - 29-03-2018
18. Commencement of Theory Examinations
    U.G. & P.G.
    - 10-04-2018
19. Examination to be over by
    U.G. & P.G.
    - 10-05-2018
20. Commencement of Central Valuation
    U.G. & P.G.
    - 17-05-2018
21. Date of publication of results
    U.G. & P.G.
    - 30-05-2018
22. Date of dispatch of statement of marks to department
    U.G. & P.G.
    - 30-06-2018
    - 30-05-2018
23. Calling of IET student list for Odd Semester

**PRINCIPAL**

# 3. Statutory and Non- Statutory Committee - Calendar

**SRI KRISHNA ARTS AND SCIENCE COLLEGE
COIMBATORE - 641 008**

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**LIST OF STATUTORY AND NON-STATUTORY COMMITTEES
WITH MEETING PLAN**

Year: 2017-2018

| S.No | Name of the Committee | Frequency of meeting | Proposed dates of meeting | Actual dates of meeting | Remarks |
|------|----------------------|:---:|-------------------------|------------------------|---------|
| 1 | Board of Studies | 2 | April 2018<br>November 2018 | 21/04/2018<br>28/04/2018<br>01/12/2018 | |
| 2 | Academic Council | 1 | June 2017 | 19/08/2017 | |
| 3 | Governing Body | 2 | July 2017<br>January 2018 | 26/10/2017<br>24/03/2018 | |
| 4 | Finance Committee | 2 | October 2017<br>March 2018 | 26/10/2017<br>27/03/2018 | |
| 5 | Planning and Evaluation Committee | 2 | June 2017<br>December 2017 | 10/05/2017<br>20/12/2017 | |
| 6 | Grievance Appeal Committee | 2 | June 2017<br>December 2017 | 12/05/2017<br>29/12/2017 | |
| 7 | Examination Committee | 2 | June 2017<br>December 2017 | 16/06/2017<br>06/12/2017 | |
| 8 | Admission Committee | 1 | April 2017 | 04/05/2017 | |
| 9 | Library Committee | 2 | October 2017<br>April 2018 | 06/10/2017<br>20/04/2018 | |
| 10 | Student Welfare Committee | 2 | June 2017<br>December 2017 | 30/06/2017<br>13/12/2017 | |
| 11 | Extra -curricular Activity Committee | 2 | June 2017<br>December 2017 | 09/06/2017<br>16/12/2017 | |
| 12 | Academic Audit Committee | 2 | October 2017<br>April 2018 | 20/10/2017<br>21/04/2018 | |
| 13 | Examination Malpractice Committee | 2 | December 2017<br>May 2018 | 05/01/2018<br>08/06/2018 | |
| 14 | Result Passing Board | 2 | December 2017<br>May 2018 | 03/01/2018<br>31/05/2018 | |

**Controller of Examinations**
Date: 21/04/2018

Vice-Principal 21/4/18

Principal 21/4/2018

# 4. Graduation Outcome

## 2015 - 2018 Batch Passed Out Percentage – UG Result

| S.No. | Department | Appeared | Passed | Percentage |
|---|---|---|---|---|
| 1 | BA ENGLISH LITERATURE | 55 | 53 | 97.0 |
| 2 | B.SC MATHEMATICS | 62 | 60 | 97.0 |
| 3 | BSC CS | 119 | 116 | 98.0 |
| 4 | B.SC CSA | 107 | 94 | 88.0 |
| 5 | BSC IT | 111 | 97 | 88.0 |
| 6 | BSC CT | 117 | 115 | 99.0 |
| 7 | BCA | 113 | 108 | 96.0 |
| 8 | B.SC SS | 51 | 40 | 79.0 |
| 9 | BSC ECS | 57 | 57 | 100.0 |
| 10 | BSC BT | 58 | 57 | 99.0 |
| 11 | BSC MB | 57 | 53 | 93.0 |
| 12 | BSC CDF | 57 | 54 | 95.0 |
| 13 | BSC CSHM | 51 | 41 | 81.0 |
| 14 | B.COM | 118 | 116 | 99.0 |
| 15 | B.COM CA | 117 | 117 | 100.0 |
| 16 | B.COM IT | 58 | 56 | 97.0 |

| 17 | B.COM PA | 105 | 104 | 100.0 |
|----|----------|-----|-----|-------|
| 18 | B.COM BPS | 53 | 46 | 87.0 |
| 19 | B.COM CM | 53 | 48 | 91.0 |
| 20 | B.COM A&F | 51 | 49 | 97.0 |
| 21 | BBA | 58 | 46 | 80.0 |
| 22 | BBACA | 61 | 59 | 97.0 |
| 23 | B.SC ISM | 33 | 25 | 76.0 |

## 2016 – 2018 Batch Passed Out Percentage – PG Result

| S.No. | Department | Appeared | Passed | Percentage |
|---|---|---|---|---|
| 1 | MA ENGLISH LITERATURE | 39 | 39 | 100.0 |
| 2 | M.SC MATHS | 32 | 32 | 100.0 |
| 3 | M.SC CS | 51 | 50 | 99.0 |
| 4 | MS.C IT | 30 | 25 | 84.0 |
| 5 | M.SC CT | 13 | 13 | 100.0 |
| 6 | M.SC SS | 52 | 52 | 100.0 |
| 7 | M.SC ECS | 27 | 27 | 100.0 |
| 8 | M.SC BT | 27 | 27 | 100.0 |
| 9 | M.SC BI | 7 | 7 | 100.0 |
| 10 | M.COM | 37 | 36 | 98.0 |
| 11 | M.COM IB | 40 | 36 | 90.0 |
| 12 | MSW | 22 | 19 | 87.0 |

# 5. Additional Credit Examinations

A student who desires to earn additional credits (over and above credits prescribed by the programme) can opt for any core course offered by any Department for UG programmes. He / She can appear for the examination for odd semester paper in the even semester and even semester paper in the odd semester.

The courses will be self-study and there is no continuous internal assessment for the courses. However, the marks scored by him / her will be converted for 100 marks and will appear in the semester mark sheet as additional credits.

**INSTRUCTIONS FOR ADDITIONAL CREDIT EXAMINATIONS**
- Three UG/PG courses of ODD semesters are provided to the students as additional credit courses for earning of additional credits. Student can select one/two/three courses as additional credit courses.
- The course should not be related to the core papers.
- Those who are having arrears cannot appear for additional courses.
- If a student fails in additional courses, it will not be reflected in the grade sheet.
- For additional courses, only one attempt is allowed.
- There is no arrear examination for additional credit courses.
- It is of self-study nature and no teaching assistance will be provided for the same.

**Number of Courses Offered:** 315

**Number of Students Completed:** 1051

# 6. Industrial Exposure Training

To make the students industry-ready, SKASC focuses on the practical aspects of education rather than just the theoretical experience. Since 2011, Industrial Exposure Training is a part of the curriculum for the final year students in which they are subjected to industrial exposure for a specific duration and helping them gain hands-on experience in industrial operations. It provides the students with opportunities for learning about the industry experiences outside the classroom environment and to work with industry professionals.

Students can opt for Industrial Exposure Training during fifth semester for a period of 8-10 weeks; in such case two courses, DSE-I & DSE-II will be exempted. Marks for the Industrial Exposure Training will be given based on the report and viva-voce examination conducted by the Department.

For B. Sc Catering Science and Hotel Management and B. Sc Costume Design and Fashion students can opt for Industrial Exposure Training of 8 to 10 weeks in fifth semester. The above two elective courses with 8 credits are exempted for the students opting for the Industrial Exposure Training.

**Number of Students Completed Industrial Exposure Training:** 804

# 7. Revaluation

### REVALUATION RESULTS – 2017-2018 EXAMINATIONS

| S. NO | YEAR | APPEARED | PASSED |
|-------|------|----------|--------|
| 1 | 2017 – 2018 | 275 | 108 |

# 8. Malpractice

## **MALPRACTICE DETAILS – NOVEMBER 2017 EXAMINATIONS**

| S.NO. | REG.NO | NAME |
|-------|--------|------|
| 1 | 17BCS032 | MOHAMMED NASIF.S |
| 2 | 17BCS134 | NAVEEN KUMAR.S |
| 3 | 17BCT105 | ASWIN.H.K |
| 4 | 16BCA048 | SUMITHRA.P |
| 5 | 16BCA102 | AJAY.R |
| 6 | 16BEC007 | BASHAAR.B |
| 7 | 16BEC022 | MANIKANDAN.A |
| 8 | 16BEC031 | OMPRAKAS.G |
| 9 | 16MCS016 | MAHESWARI.B |
| 10 | 17MMA021 | NIRMALKUAMR.C |
| 11 | 16BCT060 | JERRY SINGH.T |
| 12 | 16BCT122 | JAYENDRAN.C |
| 13 | 16BCC028 | NAVEEN.N |
| 14 | 16BCC128 | MANOJ KUMAR.M |
| 15 | 16BSS026 | MUKESH.M |
| 16 | 16BCO643 | SANJEEV.N |
| 17 | 16BIS029 | MONISHA.C |
| 18 | 16MEN039 | ARJUN.R |
| 19 | 16MCT015 | VIDHIYAMADHUSRIEE S.K.M |
| 20 | 15BIT037 | SANTHOSH KUMAR.P |
| 21 | 15BEC034 | NAVEEN KUMAR.M |
| 22 | 15BCO807 | AKSHAY KUMAR C.Y |
| 23 | 15BIS028 | VEERA.T |
| 24 | 15MSS035 | SALMAN KHAN.K |

## MALPRACTICE DETAILS – APRIL 2018 EXAMINATIONS

| S.No | Reg No | Student Name |
|------|--------|--------------|
| 1. | 15BIT054 | YADAV RAAJ.S |
| 2. | 15BIT132 | MUHAMMED FAAZIL.S |
| 3. | 15BCA032 | PATTABI.M |
| 4. | 15BBT040 | NAVANEETHA KRISHNAN.M |
| 5. | 15BCO211 | FAYAZ AHAMED.F |
| 6. | 15BIS027 | SARATHKUMAR.R |
| 7. | 15BBA140 | SANJAY SAMPATH |
| 8. | 15MSS035 | SALMAN KHAN.K |
| 9. | 16BCS013 | DHIVI PRASAD.Y |
| 10. | 16BCS057 | VINU PRAKASH.G |
| 11. | 16BIT148 | SANTHOSH KUMAR.L |
| 12. | 16BIT150 | SHREEMADHU.J |
| 13. | 16BCT040 | SHREENITHI.U |
| 14. | 16BCA159 | VIGHNESH SAI RAM.N |
| 15. | 16BCC111 | DHANABAL.S |
| 16. | 16MSS056 | RAJU RAJAN R.S |
| 17. | 17BIT042 | RAGHUL.K |
| 18. | 17BCC034 | PRIYA.V |
| 19. | 17BCC048 | SRIDHAR.M |
| 20. | 17BCC107 | ANBUMOZHI.R |
| 21. | 17BSS003 | ANANDRAM.R |
| 22. | 17BEC040 | SAPARESHAN.K |
| 23. | 17BEC058 | ARUMUGAM.M |
| 24. | 17BCO324 | KAVIYA.S |
| 25. | 17BCO337 | MOUNIKA.P |
| 26. | 17BBA017 | GOKUL.M |
| 27. | 17MMA006 | DURAI SUGANDA RAJ.R |
| 28. | 17MMA026 | RANJITH KUMAR.R |
| 29. | 17MMA030 | SIDDHARTH.S |
| 30. | 17MMA037 | JUSTIN RAJ.G |
| 31. | 17MIT015 | PREETHI.S |
| 32. | 17MCO023 | SARANYA.K |
| 33. | 17MIB025 | KOWTHAM.B |
| 34. | 17MSS044 | SHRI DHARANNIKA C.S |
| 35. | 17MSS054 | VAISHNAVI.G |

# 9. New Initiatives

**Introduction of Outcome-Based Education**

- **In Syllabus**

- **In Question Paper**

- **In Evaluation**

In the OBE model, the required knowledge and skill sets for a particular programme is predetermined and the students are evaluated for all the required parameters (Outcomes) during the course of the program. The role of the faculty adapts into instructor, trainer, facilitator, and/or mentor based on the outcome targeted. Here is the gist of OBE followed in the college.
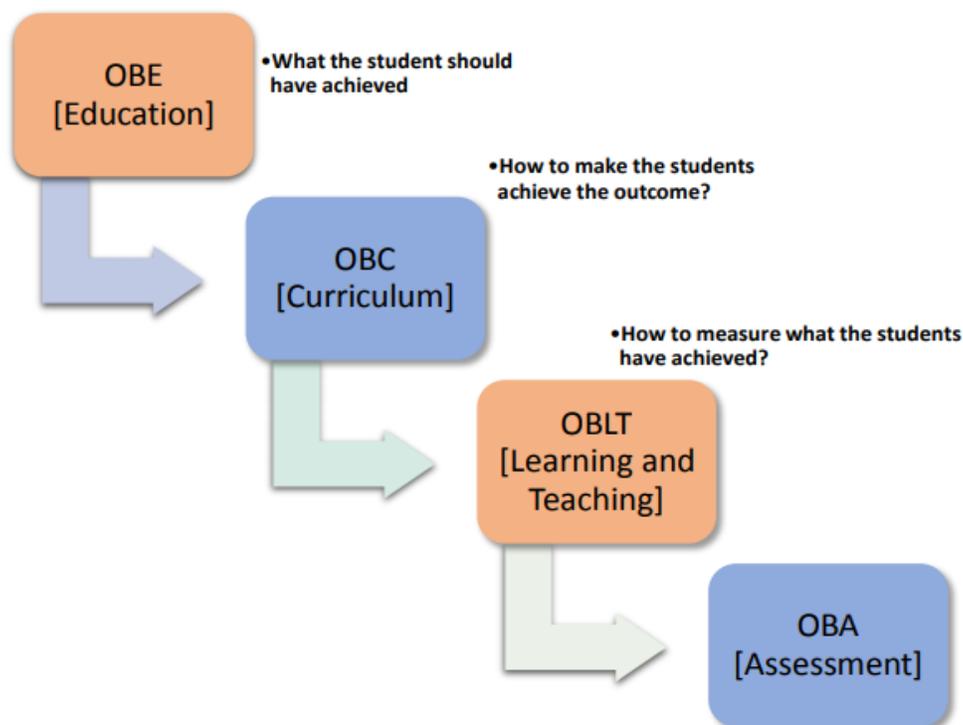
## (OBE) Outcome-Based Education in Syllabus

| Programme | Course Code(s) | Title |
|---|---|---|
| B.Sc. CDF | 17CDU20 | Fashion Dynamics |

**Preamble:** To acquaint the students with knowledge about Fashion and its environment.
**Expected Level of Output:** Conceptual Level
**Department offered:** Costume Design and Fashion
**Prerequisites:** A pass in HSC
**Course Outcomes:**

| Course Code | Outcomes | Bloom's Verb | Skill Mapping | Capstone |
|---|---|---|---|---|
| CO1 | To understand the nature and importance of fashion | Understanding | Conceptual | Writing Skills |
| CO2 | To learn the technique of product development | Remembering | Conceptual | Quiz |
| CO3 | To understand the environment of fashion | Understanding | Conceptual | Poster Presentation |
| CO4 | To learn about the movement of fashion | Remembering | Technical | Group Assignment |
| CO5 | To understand the concept of global fashion markets | Understanding | Technical | Group Assignment |

Course Inputs:
Modular Assessment Code    : C *(Theory Concepts)*

| MODULE | HOURS | TOPIC | TEXT BOOK | CHAPTER | Co's |
|---|---|---|---|---|---|
| I | 3 | Fashion - Nature, importance, terminologies, components and principles. | C | 1 | CO1 |
| | 2 | Fashion centres domestic and International. | C | 1 | |
| | 3 | Fashion influence and its scope, planning a career in fashion. | C | 1 | |
| II | 3 | Importance, scope of fashion business, forms of ownership, business growth and expansion. | A | 3 | CO2 |

|  | 2 | Designers - types and role. | A | 3 |  |
|---|---|---|---|---|---|
|  | 3 | Product development – line planning, design creation, design development, product planning, actual production and line distribution. | A | 3 |  |
| III | 3 | The environment of fashion - geographic – demographics- psychographics- | A | 4 | CO3 |
|  | 3 | Characteristics of geographic, demographic, Psychographic and behavioural sensation. | A | 4 |  |
|  | 3 | Social environment- leisure time- ethnic influences- status of women – social mobility- physical mobility- faster communication. | A | 4 |  |
|  | 2 | The psychological environment. | A | 4 |  |
| IV | 3 | The movement of fashion – factors influencing fashion movement – accelerating – retarding and recurring fashion. | A | 5 | CO4 |
|  | 3 | Predicting the movement of fashion – identifying trends, sources of data, interpreting influential factors, importance of timing. | A | 5 |  |
|  | 3 | Fashion adoption – downward – horizontal flow – upward flow. | A | 5 |  |
|  | 2 | Fashion leader and followers. | A | 5 |  |

| | | | | | |
|---|---|---|---|---|---|
| **V** | **3** | Global fashion markets – global sourcing and merchandising. | **B** | **11** | **CO5** |
| | **3** | Fashion information and advisory services. | **B** | **11** | |
| | **3** | Computer technology and service providers | **B** | **11** | |
| | **3** | news media for the fashion industry – advertising and publicity agencies | **B** | **11** | |
| | **5** | Revision | | | |
| **Total Hours** | **55** | | | | |

**Text Books:**
- A. Elaine Stone "The Dynamics of Fashion", Third edition, Fairchild publications, New York, 2001.
- B. Kitty G.Dickerson, "Inside the Fashion Business", Seventh edition, Pearson Education, New Delhi, 2004.

**Reference Books:**

1 Sharon Lee Tate, "Inside Fashion Design",Fifth edition Pearson Education", New Delhi, 2004.

# (OBE) Outcome-Based Education in Question Paper

**SRI KRISHNA ARTS AND SCIENCE COLLEGE**
An Autonomous College affiliated to Bharathiar University
Kuniamuthur; Coimbatore – 641 008
**End Semester Examinations: November 2017**

**QP CODE 17UM041**

| Programme(s) | Course Code(s) | Title |
|---|---|---|
| B.Sc. (CSA)/B.Sc. (SS) | 17GE02 | Applied Mathematics |

Time: 3 Hrs
Max. Marks :75
No. of Pages :03

## Section A
Answer all questions (10 x 1 = 10)

| | | Bloom's Taxonomy | CO's | Skill |
|---|---|---|---|---|
| 1 | Find the rank of the matrix $\begin{pmatrix} 1 & -1 & 0 \\ 2 & 0 & 1 \\ 1 & 1 & 1 \end{pmatrix}$ | Y | CO1 | Analytical |
| | A 2    C 3 | | | |
| | B 4    D None of these | | | |
| 2 | Every square matrix satisfies its own | Y | CO1 | Analytical |
| | A Eigen function    C Both A and B | | | |
| | B Characteristic equation    D None of these | | | |
| 3 | If all the roots of a differential equation are real and distinct, that is, $m_1, m_2, m_3, \ldots, m_n$, then the complementary function (CF) is | Y | CO2 | Competitive |
| | A $Y = Ae^{m1x} + Be^{m2x} + \cdots$    C $Y = -Ae^{m1x} - Be^{m2x} + \cdots$ | | | |
| | B $Y = Ae^{-m1x} + Be^{-m2x} + \cdots$    D None of these | | | |
| 4 | If $f(X) = e^{ax}$, then the particular integral is | Y | CO2 | Competitive |
| | A $PI = \frac{1}{\theta(a)} e^{ax}$    C $PI = \frac{1}{\theta(a)} e^{-ax}$ | | | |
| | B $PI = \frac{1}{\theta(a)} e^{-ax}$    D None of these | | | |
| 5 | $(\cos\theta + i\sin\theta)^n = ?$ | R | CO3 | Conceptual |
| | A $\cos n\theta + i\sin n\theta$    C Both A and B | | | |
| | B $\cos n\theta - i\sin n\theta$    D None of these | | | |
| 6 | Value of $2\cos\theta = ?$ | R | CO3 | Conceptual |
| | A $x - \frac{1}{x}$    C $x + \frac{1}{x}$ | | | |
| | B $x + \frac{1}{x^2}$    D $x - \frac{1}{x^2}$ | | | |
| 7 | If $\emptyset$ is a constant, then grad $\emptyset = ?$ | U | CO4 | Conceptual |
| | A 1    C -1 | | | |
| | B 0    D Curl $\emptyset$ | | | |

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| | | | Bloom's Taxonomy | CO's | Skill |
|---|---|---|---|---|---|
| 8 | Laplacian of a function can be stated as | | U | CO4 | Conceptual |
| | A The gradient of divergence of that function | C The divergence of gradient of that function | | | |
| | B Curl of divergence of that function | D Gradient of curl of that function | | | |
| 9 | $\Gamma(n+1) =$ | | Y | CO5 | Analytical |
| | A $n\Gamma(n+1)$ | C $n\Gamma(n)$ | | | |
| | B $n\Gamma(n-1)$ | D None of these | | | |
| 10 | $\beta(m,n) =$ | | Y | CO5 | Analytical |
| | A $\frac{\Gamma(m)\Gamma(n)}{\Gamma(m+n)}$ | C $\frac{\Gamma(m-n)}{\Gamma(m+n)}$ | | | |
| | B $\frac{\Gamma(m+n)}{\Gamma(m-n)}$ | D $\frac{\Gamma(m-n)}{\Gamma(m)\Gamma(n)}$ | | | |

## Section B
Answer All questions (5 x 5 = 25)

| | | Bloom's Taxonomy | CO's | Skill |
|---|---|---|---|---|
| 11 A | Find the rank of the matrix $\begin{bmatrix} 1 & 1 & -3 & -1 \\ 4 & -2 & 6 & 8 \\ 15 & -3 & 9 & 21 \end{bmatrix}$ | Y | CO1 | Analytical |
| | OR | | | |
| B | Find the Eigen values and Eigen vectors of the matrix. $A = \begin{pmatrix} 4 & 1 \\ 3 & 2 \end{pmatrix}$ | Y | CO1 | Analytical |
| 12 A | Solve the equation $\frac{d^2y}{dx^2} + 4\frac{dy}{dx} + 4y = e^{-2x}$ | Y | CO2 | Competitive |
| | OR | | | |
| B | Solve $(D^2 - 2D + 1)y = xe^x \sin x$. | Y | CO2 | Competitive |
| 13 A | How can you write $\frac{\sin 6\theta}{\sin\theta}$ in terms of $\cos\theta$? | R | CO3 | Conceptual |
| | OR | | | |
| B | Show that $\sin^4\theta \cos^2\theta$, can be expanded in series of cosines of multiples of $\theta$. | R | CO3 | Conceptual |
| 14 A | Prove that the directional derivative of $\emptyset = x^3 y^2 z$ at (1,2,3) is maximum along with the direction $9i + 3j + k$. Also find the maximum directional derivative. | U | CO4 | Conceptual |
| | OR | | | |
| B | If $\vec{F} = x^2 y\vec{i} + y^2 z\vec{j} + z^2 x\vec{k}$, then find Curl $\vec{F}$ and Curl curl $\vec{F}$. | U | CO4 | Conceptual |
| 15 A | Find $\int_0^{\frac{\pi}{2}} \cos^9\theta \, d\theta$ using gamma function. | Y | CO5 | Analytical |
| | OR | | | |
| B | Find the value of $\int_0^{\frac{\pi}{2}} \sin^3 x \, \cos^4 x \, dx$. | Y | CO5 | Analytical |

SKASC / Nov 2017

## QUESTION WISE MARK ENTRY - OBE SCORE CARD

SRI KRISHNA ARTS AND SCIENCE COLLEGE
SCORE CARD – NOVEMBER 2017

NO: 17M142

PROGRAMME B·Sc (CSA)   COURSE CODE 17GE02   COURSE TITLE Applied Mathematics   DATE 22·11·17

MARKS SCORED

| VERBS | Y | Y | Y | Y | R | R | U | U | Y | Y | Y | Y | R | U | Y | Y | Y | R | U | Y |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| S.NO ROLL NO | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 | 14 | 15 | 16 | 17 | 18 | 19 | 20 |
| 1. 17BCC001 | 0 | 0 | 0 | 0 | 1 | 0 | 0 | 0 | 1 | 1 | 3 | - | 2 | 4 | 2 | 6 | - | 8 | 3 | 5 |
| 2. 17BCC002 | 1 | 0 | 0 | 0 | 1 | 0 | 1 | 1 | 1 | 1 | 4 | 3 | 2 | 4 | 4 | 8 | 6 | 6 | 7 | 6 |
| 3. 17BCC003 | 0 | 1 | 1 | 1 | 1 | 1 | 0 | 0 | 1 | 1 | 4 | 3 | 4 | 3 | 4 | 2 | 4 | 8 | - | 7 |
| 4. 17BCC004 | 1 | 0 | 1 | 1 | 1 | 1 | 0 | 0 | 1 | 1 | 4 | 4 | 4 | 3 | 5 | 7 | 7 | 7 | 8 | 8 |
| 5. 17BCC005 | 0 | 0 | 1 | 1 | 0 | 1 | 0 | 0 | 0 | 1 | 5 | 4 | 5 | 5 | 6 | 8 | 7 | - | 4 | 0 |
| 6. 17BCC006 | 0 | 1 | 1 | 1 | 1 | 0 | 0 | 0 | 1 | 1 | 2 | 2 | - | - | - | 2 | - | - | - | 0 |
| 7. 17BCC007 | 0 | 0 | 1 | 0 | 1 | 1 | 0 | 1 | 0 | 0 | 5 | 4 | 3 | 3 | 4 | 7 | 3 | - | 7 | - |
| 8. 17BCC008 | 1 | 1 | 1 | 1 | 1 | 1 | 0 | 0 | 0 | 1 | 5 | 4 | 3 | 3 | 3 | 6 | 5 | 4 | 3 | 2 |
| 9. 17BCC009 | 0 | 1 | 1 | 1 | 1 | 1 | 0 | 1 | 0 | 0 | 4 | 3 | 4 | 3 | 3 | 6 | 5 | 4 | 3 | 2 |
| 10. 17BCC010 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 0 | 1 | 5 | 5 | 5 | 5 | 5 | 7 | 7 | 8 | 7 | 8 |
| 11. 17BCC011 | 1 | 0 | 0 | 1 | 1 | 1 | 0 | 0 | 0 | 1 | 5 | 2 | 1 | 4 | 4 | 8 | 4 | 8 | 6 | 8 |
| 12. 17BCC012 | 1 | 0 | 1 | 1 | 1 | 1 | 0 | 1 | 0 | 1 | 4 | 2 | 3 | 5 | 5 | 7 | 6 | 8 | 8 | 8 |
| 13. 17BCC013 | 0 | 1 | 1 | 0 | 1 | 1 | 1 | 0 | 1 | 1 | 5 | 4 | 4 | 3 | 4 | 7 | 7 | 5 | 6 | - |
| 14. 17BCC014 | 0 | 0 | 1 | 1 | 1 | 1 | 0 | 0 | 1 | 1 | 4 | 3 | 4 | 3 | 3 | 5 | 4 | - | 5 | 1 |
| 15. 17BCC015 | 10 | 0 | 1 | 1 | 1 | 1 | 1 | 0 | 1 | 0 | 5 | 5 | 5 | 3 | 4 | 6 | 6 | 8 | 7 | 6 |
| 16. 17BCC016 | 1 | 0 | 1 | 1 | 1 | 1 | 0 | 1 | 1 | 0 | 4 | 0 | 4 | 3 | 3 | 7 | - | 2 | 2 | 2 |
| 17. 17BCC017 | 1 | 1 | 1 | 1 | 1 | 1 | 0 | 0 | 1 | 1 | 5 | 4 | 4 | 3 | 4 | 6 | 7 | 8 | 6 | 8 |
| 18. 17BCC018 | 0 | 0 | 1 | 0 | 1 | 1 | 0 | 1 | 1 | 1 | 5 | 4 | 3 | 2 | 2 | 7 | 6 | - | 6 | - |
| 19. 17BCC020 | 0 | 0 | 1 | 0 | 1 | 1 | 0 | 0 | 1 | 1 | 4 | 3 | - | 0 | - | 3 | | - | - | 0 |
| 20. 17BCC021 | 0 | 1 | 1 | 1 | 1 | 0 | 0 | 1 | 1 | 1 | 4 | 3 | 3 | 3 | 4 | 4 | - | - | - | 2 |

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SIGNATURE  Gayathri 22/11/17

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