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S.Y.B.Sc(IT).

2nd Term QUESTION PAPERS

2018-19

END SEMESTER EXAMS

UiD No.: _____

Date: Monday

Duration: 2 Hours

Date: 18/03/2019

S.Y.B.Sc.

Max Marks: 60

INFORMATION TECHNOLOGY

Course Code: SITS0401

SUBJECT: SOFTWARE ENGINEERING

Note In each Question part A is compulsory and attempt any one from part B or part C. Statistics table to be provided. Calculator allowed.

Q1 a) Explain Feasibility analysis with examples. 8

b) Discuss Agile Methodology of Project with neat diagram. 7

c) With respect to seat allocation case study in railways discuss the allocation strategy. 7

Q2 a) Explain Requirement analysis in details with examples for software development. 8

b) Draw and explain the UML class diagram for the following. Add attributes and methods accordingly. 7
Vehicle, Bike, Car

c) Draw ER diagram for entity Teacher Student and relationship Teaches. Use proper notations and explain it. 7

Q3 a) Discuss the V model in details with neat diagram. 7

b) Suppose an embedded project has 50 KLOC. Calculate.
i) Effort
ii) Development Time
iii) Average Staff
iv) Productivity

c) What is Unit Testing? Discuss with an example in java how unit testing is performed? 8

Q4 a) Discuss 7
i) Four P's of Project Management.
ii) Stakeholders of project
iii) MOI Model.

b) What are the steps in Risk Management? Discuss in details. 8

c) Given the following table 8

Activity	a	m	b
1, 2	1	2	3
2, 3	1	4	7
2, 4	3	4	11
3, 5	3 + 5	4	4 + 5
4, 5	5	6	13
5, 6	2	6.5	8

Find

- i) Draw network diagram.
- ii) Calculate TE for each node and find Critical Path
- iii) What is the probability of completing the project in 21 days?

Standard Normal Probabilities

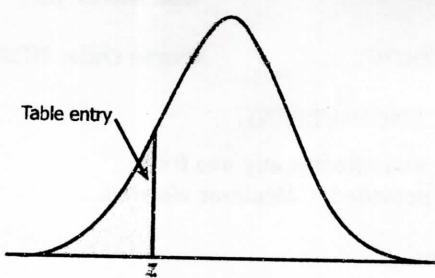


Table entry for z is the area under the standard normal curve to the left of z .

z	.00	.01	.02	.03	.04	.05	.06	.07	.08	.09
-3.4	.0003	.0003	.0003	.0003	.0003	.0003	.0003	.0003	.0003	.0002
-3.3	.0005	.0005	.0005	.0004	.0004	.0004	.0004	.0004	.0004	.0003
-3.2	.0007	.0007	.0006	.0006	.0006	.0006	.0006	.0005	.0005	.0005
-3.1	.0010	.0009	.0009	.0009	.0008	.0008	.0008	.0008	.0007	.0007
-3.0	.0013	.0013	.0013	.0012	.0012	.0011	.0011	.0011	.0010	.0010
-2.9	.0019	.0018	.0018	.0017	.0016	.0016	.0015	.0015	.0014	.0014
-2.8	.0026	.0025	.0024	.0023	.0023	.0022	.0021	.0021	.0020	.0019
-2.7	.0035	.0034	.0033	.0032	.0031	.0030	.0029	.0028	.0027	.0026
-2.6	.0047	.0045	.0044	.0043	.0041	.0040	.0039	.0038	.0037	.0036
-2.5	.0062	.0060	.0059	.0057	.0055	.0054	.0052	.0051	.0049	.0048
-2.4	.0082	.0080	.0078	.0075	.0073	.0071	.0069	.0068	.0066	.0064
-2.3	.0107	.0104	.0102	.0099	.0096	.0094	.0091	.0089	.0087	.0084
-2.2	.0139	.0136	.0132	.0129	.0125	.0122	.0119	.0116	.0113	.0110
-2.1	.0179	.0174	.0170	.0166	.0162	.0158	.0154	.0150	.0146	.0143
-2.0	.0228	.0222	.0217	.0212	.0207	.0202	.0197	.0192	.0188	.0183
-1.9	.0287	.0281	.0274	.0268	.0262	.0256	.0250	.0244	.0239	.0233
-1.8	.0359	.0351	.0344	.0336	.0329	.0322	.0314	.0307	.0301	.0294
-1.7	.0446	.0436	.0427	.0418	.0409	.0401	.0392	.0384	.0375	.0367
-1.6	.0548	.0537	.0526	.0516	.0505	.0495	.0485	.0475	.0465	.0455
-1.5	.0668	.0655	.0643	.0630	.0618	.0606	.0594	.0582	.0571	.0559
-1.4	.0808	.0793	.0778	.0764	.0749	.0735	.0721	.0708	.0694	.0681
-1.3	.0968	.0951	.0934	.0918	.0901	.0885	.0869	.0853	.0838	.0823
-1.2	.1151	.1131	.1112	.1093	.1075	.1056	.1038	.1020	.1003	.0985
-1.1	.1357	.1335	.1314	.1292	.1271	.1251	.1230	.1210	.1190	.1170
-1.0	.1587	.1562	.1539	.1515	.1492	.1469	.1446	.1423	.1401	.1379
-0.9	.1841	.1814	.1788	.1762	.1736	.1711	.1685	.1660	.1635	.1611
-0.8	.2119	.2090	.2061	.2033	.2005	.1977	.1949	.1922	.1894	.1867
-0.7	.2420	.2389	.2358	.2327	.2296	.2266	.2236	.2206	.2177	.2148
-0.6	.2743	.2709	.2676	.2643	.2611	.2578	.2546	.2514	.2483	.2451
-0.5	.3085	.3050	.3015	.2981	.2946	.2912	.2877	.2843	.2810	.2776
-0.4	.3446	.3409	.3372	.3336	.3300	.3264	.3228	.3192	.3156	.3121
-0.3	.3821	.3783	.3745	.3707	.3669	.3632	.3594	.3557	.3520	.3483
-0.2	.4207	.4168	.4129	.4090	.4052	.4013	.3974	.3936	.3897	.3859
-0.1	.4602	.4562	.4522	.4483	.4443	.4404	.4364	.4325	.4286	.4247
-0.0	.5000	.4960	.4920	.4880	.4840	.4801	.4761	.4721	.4681	.4641

Standard Normal Probabilities

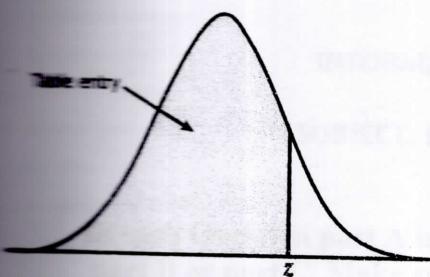


Table entry for z is the area under the standard normal curve to the left of z .

END SEMESTER EXAMS

UID No.: _____

Duration: 2 Hours

S.Y.B.Sc.

Max Marks: 60

INFORMATION TECHNOLOGY

Course Code: SITS0404

SUBJECT: DATA STRUCTURE WITH JAVA

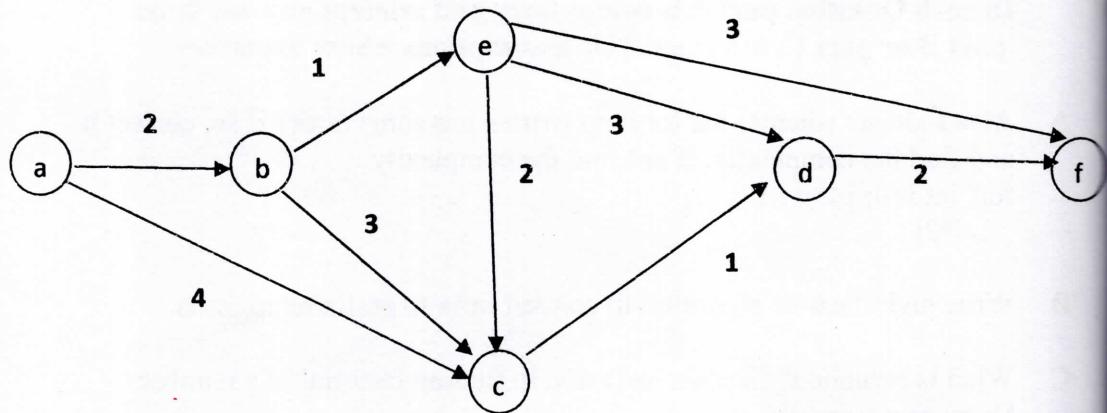
In each Question part A is compulsory and attempt any one from part B or part C. Make suitable assumptions where necessary

- A ~~Ques~~ Indicate whether the for loop written has some error? if so, correct it and find the complexity. If not find the complexity. 8
`for(int i=0; i<=n ;)
 i=i*2;`
- B Write and illustrate algorithm to convert infix to prefix expression. 7
- C What is recursion? Explain recursion in finding factorial of a number. Draw necessary diagram. 7
- A What is circular queue? Write java method for enqueue that is add an element to the existing queue. Draw corresponding diagram 8
- B Write an algorithm or method to delete second last node from given single linked list. Illustrate with diagram 7
- C Write the Data Structure for the Doubly Linked List having data in each node which has integer data type. Now write only method to insert element to end of given doubly linked list. Illustrate by diagram. 7
- A Write Quick Sort Algorithm and illustrate by diagram. 7
- B What is a Heap? Discuss Build Heap Algorithm with illustration. 8
- C Construct a B-tree of order 5 and explain how tree is constructed. Assume following elements arrive in order.
 4, 11, 8, 2, 25, 6, 14, 28, 17, 7, 50, 16, 48, 65, 3, 26, 29, 53, 49 8
- A Explain the following terms with illustration. 7
 i) Hamilton Path
 ii) Chromatic number of a Graph
 iii) Complete Graph
 iv) Subgraph

(P.T.O.)

(9)

- B From given diagram find path from node "a" to node "f" using Dijkstra's Algorithm. Illustrate the steps involved. Only if the question has any error, make correction and then calculate.



- C Given the table which shows occurrence of each letter in the file. Find the percentage compression by Huffman coding

character Frequency

a	5
b	9
c	12
d	13
e	16
f	45

-----END-----

(10)

ST. XAVIER'S COLLEGE(AUTONOMOUS) MUMBAI
END SEMSTER EXAM
S.Y. B.Sc. (I.T.)
MODERN OPERATING SYSTEM

UID: _____
Duration : 2Hr
Max Marks : 60
Course no: ITS0402

- Note: 1) Sub question 'a' is compulsory in all the questions
2) Sub question b or c is optional

1. Explain the concept of safe state. Explain the banker's algorithm with its data structures, safety algorithm and resource request algorithm (8)

2. Write a short note on the following (3)

1. Layered Operating system structure (4)
2. Peterson's solution to the critical section problem

OR

3. Find the average waiting using SRTF (4)

Process	Arrival time	Burst time
P1	0	8
P2	1	4
P3	2	9
P4	3	5

4. Find the average waiting time using Round Robin Scheduling. Time quanta is 5 msec (3)

Process	Burst time
P1	8
P2	11
P3	3
P4	14

5. Explain the following commands with syntax and examples (3)
1. sed (3)
2. grep (3)
3. ls -l (2)

6. Explain the syntax of chmod command. Mention the two modes used in it with the help of examples. (7)

7. 1. Write a shell script to display the Sum of digits of a number entered by the user. (3)
2. Write a shell script to take the filename as an input. Check if the file exists or not. If yes, take a pattern from the user and search if the pattern exists in the file. If yes, display the lines containing the pattern in the file. Display appropriate messages if the file does not exist or if the pattern is not found. (4)

8. Explain the concept of paging in memory management. Illustrate the importance of a page table as an important hardware used in paging. Also explain the concept of translation look-aside buffer(TLB) with the help of a diagram (7)

9. 1. Explain the concept of internal and external fragmentation with the help of diagrams (4)
2. Use the LRU page replacement algorithm to find the number of page faults, when the number of frames used are 4 (4)
1, 2, 3, 4, 1, 2, 5, 1, 2, 3, 4, 5, 2, 3

10. Explain the concept of LRU implementation through a stack (with the help of above example)
OR

11. What is a page fault? Explain the steps required in handling a page fault (8)

12. What are distributed systems? Explain the goals of distributed systems. (7)

13. 1. Illustrate the features of Acyclic directory Structure (4)
2. Explain the features of Contiguous and Linked Allocation methods (4)

14. Discuss the features of the following systems (4)
1. Client Server Systems (4)
2. Peer to peer Systems

_____ X _____ X _____ X _____

ST. XAVIER'S COLLEGE-AUTONOMOUS, MUMBAI
END SEMESTER EXAM
CLASS: S.Y.B.Sc.IT

UID. _____
Duration: 2 hrs
Max Marks: 60

COURSE NO: ITS0403

(11)

Day: Friday
Date: 24/08/2019
Subject: Mobile Application Development

- Instructions:**
1. Sub-question "a" is compulsory in every main question and is marked with an (*)
 2. Attempt any one of the sub questions b or c.
 3. Give examples and draw neat diagrams for every numerical and wherever necessary
 4. Do not make ANY MARKINGS ON THE questions paper

- Q1. a*)** What is the significance of the following, quote methods/tags to support your answer, (8)
giving generic code snippets where necessary :
i. androidmanifest.xml, (2) ii. MainActivity.java (3) iii. activity_main.xml (3)

- b)** i. What are the applications of a Progress Bar in Android? What purpose does it serve? (2)
- ii. Discuss the ways in which we can incorporate a horizontal and circular progress bar style in our layout. What approach does one take in order to load data onto this widget? Write java snippets and making use of comments, explain your answer (5)
- c) Referring to question 2 a*) write down the respective code for activity_main.xml.
Draw the output for the same. (7)

- Q2. a*)** Observe the following lines of code and provide suitable **technical explanation** for the same, if the code contains errors, highlight the same and rewrite the correct version in your answer paper. (8)

```

1. public class MainActivity extends Activity {
2.     EditText editText;
3.     TextView response;
4.     Button saveButton,readButton;
5.     private String filename =
6.         "SampleFile.txt";
7.     private String filepath =
8.         "MyfileStorage";
9.     File myExternalFile;
10.    String myData = "";
11.
12.    @Override
13.    protected void onCreate(Bundle savedInstanceState) {
14.        super.onCreate(savedInstanceState);
15.        setContentView(R.layout.activity_main);
16.        editText = (EditText)
17.            findViewById(R.layout.myInputText);
18.        response = (TextView) findViewById(R.
19.            layout.TextView);
20.        saveButton =
21.            (Button)
22.            findViewById(R.id.saveExternalStorage);
23.        saveButton.setOnClickListener(new
24.            View.OnClickListener() {
25.
26.                public void onClick(View v) {
27.
28.                    DataInputStream fis = new
29.                    DataInputStream(myExternalFile);
30.                    fis.write(editText.getText().toString());
31.                    fis.close();
32.                }
33.            } );
34.        saveButton.setOnClickListener(new
35.            View.OnClickListener() {
36.                public void onClick(View v) {
37.                    DataOutputStream fos = new
38.                    DataOutputStream(myExternalFile);
39.                    fos.write(editText.getText().toString());
40.                    fos.close();
41.                }
42.            } );
43.    }
44.    private static boolean
45.    isExternalStorageReadOnly() {
46.        String extStorageState =
47.            Environment.getExternalStorageState();
48.        if
49.            (Environment.MEDIA_MOUNTED_READ_ONLY.equals
50.            (extStorageState)) {
51.                return true;
52.            }
53.        return false;
54.    }
55.    private static boolean
56.    isExternalStorageAvailable() {
57.        String extStorageState =
58.    }

```

12

```

    OnClickListener() {
19. @Override
20. public void onClick(View v) {
21. try {
22. FileInputStream fis = new
    FileInputStream(myExternalFile);
      Environment.getExternalStorageState();
      52. if (Environment.MEDIA_MOUNTED.equals
          53. (extStorageState)) {
          54. return true;
          55. return false;
          56. }
}

```

Attempt any one of the following

- b) Write a simple program to demonstrate the use of context menu. (7)
- c) Write a short note on how android does incorporate and how android developers can incorporate accessibility for making applications *inclusive*. (7)
- Q3. a*) With the help of examples explain how one would perform CRUD operations that are a part of SQLite concept. Provide the syntax as support to your answer. (7)

Attempt any one of the following

- b) i. Significance of onUpgrade() and onDowngrade() (8)
ii. Where is the sqlite database stored on the android studio?
iii. How many orientations does android support? (2/4/6/10)
iv. List the features of using SQLITE database.
- c) Royston a hassled developer, in a rush to submit his module before the deadline, wrote the following code which ultimately compromised on quality. As a Quality Assurance Expert you are expected to spot and rectify the missing and erroneous statements. Rewrite the *correct code or correct sequence of lines numbers* in the answer paper. (8)

```

1. package com.journaldev.sqlite;
2. import android.content.Context;
3. import
    android.database.sqlite.SQLiteDatabase;
4. import
    android.database.sqlite.SQLiteOpenHelper;
5. public class DatabaseHelper extends
    SQLiteOpenHelper {
6.     @Override
7.     public void onCreate(SQLiteDatabase db) {
8.         db.execSQL("DROP TABLE IF EXISTS " +
    TABLE_NAME);
9.     onCreate(db);
10. }
11. public static final String TABLE_NAME =
    "COUNTRIES";
12. // Table columns
13. public static final String _ID = "_id";
14. public static final String SUBJECT =
    "subject";
15. public static final String DESC =
    "description";
16. // Database Information
17. static final String DB_NAME =
    "COUNTRIES.DB";
18. // database version
19. static final int DB_VERSION = 1;
20. // Creating table query
21. private static final String CREATE_TABLE =
    ".....";
22. public DatabaseHelper(Context context) {
23.     super(context, NAME, null, VERSION_1);
24. }
25. @Override
26. public void onUpgrade(SQLiteDatabase db,
    int oldVersion, int newVersion) {
        db.execSQL(CREATE_TABLE);
27. }
28. }

```

- Q4. a*) With the help of an example, explain the concept behind Notifications while highlighting key classes and methods. (7)

Attempt any one of the following

- b) i. Discuss the concept behind Google maps and steps to incorporate such an idea in our android app. (8)
ii. Write a program to detect the Wifi mode of your device, each time it is turned on or off, a relevant toast must be displayed for the same. Draw the GUI.
- c) Discuss the significance of Bluetooth and discuss any 5 methods that are associated with Bluetooth. (8)

-----*-----*-----*

ST. XAVIER'S COLLEGE(AUTONOMOUS) MUMBAI
END SEMESTER EXAM
CLASS :S.Y. B.Sc. (I.T.)
STATISTICAL TECHNIQUES AND O.R

UID: _____
Duration : 2 Hrs
Max Marks : 60
Course Code: ITS0405

- Note:** 1) Sub question 'a' is compulsory in all the questions
2) Sub question b or c is optional
3) use of nonprogrammable calculator is allowed.

- Q I a)** (i) Find the regression equation of Y on X for the following data and estimate the value of Y when X= 85 6

X	57	58	59	59	60	61	62	64
Y	77	78	75	78	82	82	79	81

- (ii) Explain the concept of correlation. 2

- b)** Solve the following Linear programming problem using the Big M method 7

$$\text{Max } Z = 6x + 4y \text{ subject to the constraints}$$

$$2x + 3y \leq 30, 3x + 2y \leq 24, x + y \geq 3 : x, y \geq 0$$

- c)** (i) Calculate arithmetic mean and standard deviation of the following data 7

Marks(greater than or equal)	0	10	20	30	40	50	60	70	80	90
No of students	100	98	95	90	80	50	35	23	13	5

- Q II a)** Four gasoline dealers A, B, C ,and D require 50,40,60 and 40 KL of gasoline respectively. It is possible to supply these from locations 1, 2 and 3 which have 80,100 and 50KL respectively. The cost (in Rs) for shipping every KL is shown in the following table: 8

Location	Dealers				
	A	B	C	D	
1	7	6	6	6	
2	5	7	6	7	
3	8	5	8	6	

Determine the optimum economical supply chain.

- b)** (i)The marks obtained in a certain examination follow normal distribution with mean 45 and standard deviation 10. If 1000 students appeared for the examination, calculate the percentage of students scoring 5

- (i) Less than 42 marks
- (ii) More than 62 marks
- (iii) Between 40 and 50 marks.

- (ii) If mean of a binomial distribution is 20 and the standard deviation is 4 . 2

calculate n,p and q.

- c) (i) Calculate measure of skewness for the following data

7

class	0-10	10-20	20-30	30-40	40-50	50-60
frequency	12	16	40	30	10	8

- Q III a) The captain of a cricket team has to allot five middle batting positions to five batsman. The average runs scored by each batsman at these positions are as follows

7

Batsman	Batting Position					
	I	II	III	IV	V	
A	40	40	35	25	50	
B	42	30	16	25	27	
C	50	48	40	60	50	
D	20	19	20	18	25	
E	58	60	59	55	53	

Find the assignment of batsman to positions, which would give the maximum number of runs.

- b) (i) The probability of a man hitting a target is 0.25 . if he fires 8 times what is the probability of his hitting the target at least twice?

4

- (ii) What is probability distribution? How is it useful for decision making?

4

- c) (i) Prices of shares of a company on different days in a month were found to be 66, 65, 69, 80, 69, 71, 70, 63, 69 and 68. Discuss whether the mean price of the shares in the month is 65.[level of significance 5%]

5

- (ii) Explain the procedure of testing a hypothesis

3

- Q IVa) Consider the following details of a project:

7

Activity	A	B	C	D	E	F
Preceding activity	---	----	A	B	C	C
Duration	13	14	15	13	12	6

Activity	G	H	I	J	K
Preceding activity	C,D	F,G	E	I	H
Duration	5	14	13	4	3

- (i) Draw the project network

(15)

- (ii) Compute project completion time
(iii) Compute Earliest start time and latest completion time for each activity.

- b) (i) The number of road accidents per week in a certain area is as follows: 4

12,8,20,2,14,10,15,6,9,4

Are these frequencies in agreement with the belief that accident conditions were same during the 10-week period? [level of significance 5 %]

- (ii) Explain the following: 4

1. critical region and region of acceptance

2. Level of significance

3. Population and Sample

- c) i) What is meant by graphing in network analysis? What is a critical path? 4
Explain the concept of Dangling.

- ii) The mean I.Q of a sample of 600 children was 99. Is it likely that this was a random sample from a population with mean I.Q 100 and standard deviation 15? [level of significance 5%] 4

— X —

ST. XAVIER'S COLLEGE (AUTONOMOUS) MUMBAI
END SEMESTER EXAMINATION

(16)

Date: Saturday
 Date: 16/03/2019

UID No.: _____

Duration: 2 Hours

Maximum Marks: 60

Course Code: CFC_IE_4.01

S.Y.B.Sc.
 Economics

Title of the Paper: International Economics

NOTE: 1) All questions are compulsory
 2) Figures to the right indicate maximum marks.
 3) Use of Non-Programmable calculators is allowed.

Q. 1 Attempt any **TWO** of the following: (20 marks)

- A. Write a note on BOP Crisis in India, 1991. (10)
 B. Answer the following questions:
 i) Derive Foreign Trade Multiplier Equation algebraically. (4)
 ii) Calculate the value of Foreign Trade Multiplier and increase in Income (ΔY) if, $MPS = 0.4$, $MPM = 0.3$ and increase in Exports (ΔX) is Rs. 500 crores. (4)
 iii) What are the Limitations of Foreign Trade Multiplier theory? (2)
 C. Explain the Structure of BOP account and state the causes of Disequilibrium in Balance of Payment. (10)

Q. 2 Answer any **TWO** of the following: (20 marks)

- A. Explain J. S. Mill's theory of Reciprocal Demand of International Trade. (10)
 B. What is Factor Endowment? Evaluate Heckscher-Ohlin's theory of International Trade with reference to Leontief's Paradox. (10)
 C. Answer the following questions based on the Matrix given below: (10)

Country	Output of Sugar	Output of Oil
Brazil	200 units	100 units
Russia	80 units	90 units

- i) Which country will have Absolute Cost Advantage and Why? (3)
 ii) Which country will have Comparative Cost Advantage and how? (4)
 iii) Calculate the Opportunity Cost of producing Sugar and oil in Russia and state the commodity Russia will export to Brazil based on opportunity cost. (3)

Q. 3 Answer any **TWO** of the following: (20 marks)

- A. Define 'Regional Trade Bloc' and describe the features of following phases of Economic Integration: (10)
 i) Free Trade Area
 ii) Custom Union
 iii) Common Market
 iv) Economic Union
 B. Write a note on: (10)
 i) Fixed Exchange Rate (5)
 ii) Flexible Exchange Rate (5)
 C. Discuss the arguments in favour of 'Free Trade' for International Trade. (10)

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ST. XAVIER'S COLLEGE (AUTONOMOUS) MUMBAI

END SEMESTER EXAMS UID No.: _____

SATURDAY

25th March 2019

S.Y.B.SC

Duration: 2 Hours

Maximum Marks: 60

ANCIENT INDIAN HISTORY, CULTURE AND ARCHAEOLOGY

INDIAN CULTURE THE PHILOSOPHY WITHIN

Course Code: CFC0401

NOTE: 1) All questions are compulsory

2) Figures to the right indicate maximum marks.

- I. A) Study and document the challenges that are faced by historians while constructing the cultural history of the land using Literary sources. (15 marks)**
(or)
B) Write Short Notes on a) The Indus Script b) The causes for the end of the Harappan culture. (15 marks)

- II. A) Explain the concept of Polytheism under the philosophy of the Vedas. Explain answer with relevant examples. (15 Marks)**

(or)

- B) In the Social history of the Vedic period study the importance of Rna and Rta. Is the importance of the Varnasharma in the society of India? (15 marks)**

- III. A) What are the basic features of Buddha's teachings? How did it contribute to the world? (15 Marks)**

(or)

- IV. Analyse the role of Dasha Avatar in the Vaishnava Philosophy. (15 marks)**

- V. Elaborate on the contribution of Indian classical traditions to the cultural fabric of (15 marks)**

(or)

- VI. Construct the Impact of media on the cultural paradigms of the society. (15 marks)**
-

ST. XAVIER'S COLLEGE (AUTONOMOUS) MUMBAI
END SEMESTER EXAMS

Duration: 2 Hours
Maximum Marks: 60

CPC 4001 LR Literature and Resistance (Eng)

Answer any four from the following questions (15 marks each)

- Q1.** Discuss the theme of resistance in poems of the women poets that you have studied. (15)
- Q2.** To what extent is *To Kill a Mockingbird* a coming-of-age story? Comment with reference to the text. (15)
- Q3.** Comment on the patterns of the mothers in *The Day They Burned The Books* and *The Dinner's Wife*. (15)
- Q4.** Analyse any four themes pertaining to resistance in *Hotel Rwanda* and *Twelve Angry Men*. (15)
- Q5.** "The Dog of Titwal is one of the most relevant stories of our time." Do you agree with this statement? Present your argument. (15)
- Q6.** Explain any five issues of resistance that you have studied in different genres - poetry, prose, films, songs. (15)

**ST. XAVIER'S COLLEGE (AUTONOMOUS), MUMBAI
END SEMESTER EXAM**

Saturday,
March 16, 2019

UID No. _____
Time: 2 hours

SECOND YEAR B.Sc/B.Sc IT

Max. Marks: 60

SUBJECT: HISTORY (CROSS FACULTY)

COURSE CODE: CFC0401GS

AN INTRODUCTION TO GANDHIAN STUDIES

Note: - All questions (1,2 and 3) are compulsory.
- Choice can be exercised within the questions (eg. 1A or 1B).

Q1. Gandhi started his political career in South Africa. Do you agree with this statement? Justify your response by writing an account of his satyagraha movement in this region.

OR

20 marks

Q2. Write short notes on the following:

- i. The Champaran Satyagraha
- ii. The causes of the Civil Disobedience movement

Q3. While India's independence was being conceived, Gandhi's brand of nationalism was both ~~practical~~ and inclusive. Comment on this statement by reviewing in detail, his ideas of *swaraj* and *swadeshi*.

OR

20 marks

Q4. Write short notes on the following:

- i. The impact of the Sarvodaya movement on the world
- ii. *Khadi* as an economic and political symbol

Q5. How does a conflict take place? Explain in detail the method prescribed by Gandhi to ~~resolve~~ a conflict. Is this method relevant today? Justify your response.

OR

20 marks

Q6. Write short notes on the following:

- i. The Gandhian philosophy of social service
- ii. The Gandhian interpretation of sustainable development

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(20)

ST. XAVIER'S COLLEGE (AUTONOMOUS), MUMBAI

4TH END SEMESTER EXAMINATION

Roll No. _____

Duration: 2 Hours

CLASS: SYBSC/IT

Max. Marks: 60

FUNDAMENTALS OF THE INDIAN CONSTITUTION

COURSE NO:FIC.4.01

MENT: POLITICAL SCIENCE

1. Attempt Questions no.1, 2, 3 and 4 exercising your choice mentioned therein.

2. Figures to the right indicate full marks.

3. Give the appropriate examples.

1. Examine various stages in the making of Indian Constitution. 15

OR

Evaluate the nature and significance of Fundamental Rights. 15

Discuss the Executive, Emergency and Military powers of the Indian President. 15

OR

Explain the election and impeachment of President of India and the relationship between President and Council of Ministers. 15

Critically examine powers and functions of Cabinet and role of Prime Minister in the cabinet. 15

OR

Discuss the appointment of Prime Minister and Council of Ministers and powers and functions of PM of India. 15

Examine the appointment and impeachment of judges of the Supreme Court and independence of judiciary. Explain the Original Jurisdiction of SC. 15

OR

Discuss the organization of High Courts in India and powers and functions of HC. 15

ST. XAVIER'S COLLEGE (AUTONOMOUS) MUMBAI
FOURTH END SEMESTER EXAMS

UID No.: _____

SATURDAY

10th March 2019

Duration: 2 Hours

Maximum Marks: 60

S.Y.B.Sc/ S.Y.I.T.

CROSS FACULTY COURSE (CFC) **Course Code: SPC 0401**
PSYCHOLOGY OF RELATIONSHIPS (PSY)

- NOTE:** 1) All three questions are compulsory, though there is internal choice in each.
 Answer any two sub questions from each of the questions.
 2) Figures to the right indicate maximum marks.

- i. Citing relevant research, explain eye contact, touch and paralanguage as elements of nonverbal communication. (10)
 ii. Describe the four-step programme of Gordon and Bower (1991, 2004) in the creation of negative scripts, using an example of your own. (10)
 iii. i) Describe the common obstacles to effective communication. (05)
 ii) Outline the guidelines for collaborative conflict management. (05)
- iv. With reference to research, describe reciprocal liking, perceived similarity and relationship satisfaction as factors in relationship development. (10)
 v. Explain the prevalence of, correlates of and ways of coping with loneliness. (10)
 vi. i) Describe and evaluate ways of helping relationships last. (05)
 ii) Explain Robert Sternberg's Triangular theory of love. (05)
- vii. With reference to research, explain how gaps in role expectations and financial difficulties are vulnerable areas in marital adjustment. (10)
 viii. Discuss how peers, religion and school are important psychosocial influences on sexual identity. (10)
 ix. i) Explain how sexual gender related stereotypes and aggressive pornography contribute to violence in relationships. (05)
 ii) Outline the stages in the sexual response cycle. (05)

ST. XAVIER'S COLLEGE (AUTONOMOUS), MUMBAI
End Semester Examination 2018-19

Saturday
16/6/2019
Marks: 60
Cross Faculty Course

UID No: _____

Duration: Two Hours

Class: SYBSc. & SYBSc.-IT

Course Code: CFC0401SC

Paper: SCIENCE OF CULTURE

Instructions:

1. All questions are compulsory and carry a maximum of 20 marks each.
2. Answers must be written pertinent to the context and mandate of the question. They must be comprehensive, credible and analytical.
3. Each answer must be between 750-1000 words. (Approximately 3-4 sides)

Q. What are the cultural similarities and differences you find when you compare the two movies 'Bend it like Beckham' and 'Pocahontas'. Give specific illustrations from the movies.

OR

Using Zindagi channel's serial Aadhe Adhoore, explore how family traditions and values and families are culturally defined. According to you how should the serial have ended and why.

Q. How did the science studies and the history of science scholars attempt to reposition the 2-gender divide?

OR

Using Emily Martin's analysis explain how science has constructed a romance based on typical male-female roles

Q. Write a note on the Culture Industry as a concept articulated by Adorno and Goffman. Use one case study and write a breakdown of your analysis as to how this case fits into the theory by Adorno and Goffman.

OR

Using the case study of television serials, explain how cultural value systems are reinforced in popular culture. What is the consequential influence of this on the culture of larger society?

XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX

S.Y.Bsc / Bsc.IT.
SOCIOLOGY

UID No.: _____
Duration: 2 Hours
Maximum Marks: 60
Course Code: STS

(CROSS FACULTY COURSE)

**SCIENCE TECHNOLOGY AND SOCIAL CHANGE – SOME ISSUES AND
CHALLENGES**

- I) All questions are compulsory except where internal choice is provided**
II) All questions carry equal marks

Intellectual Property Rights tend to be a double-edged sword.' Do you agree or disagree with this statement? Cite examples to substantiate your point of view. (20 marks)

OR

What is meant by IPR? What are the different types of IPRs? Cite examples. Also list some issues stemming from IPRs. (20 marks)

Show how information communication technology can be effectively used to help the poor and disadvantaged to move up the social ladder. (20 marks)

OR

What is meant by the digital divide? Why is it that planners need to keep this potential problem in mind while implementing an ICT strategy? (20 marks)

Why would a medical researcher have to consider the social dimension? Also indicate and analyse the ethical issues that have arisen with regards such investigations in the contemporary world. (20 marks)

OR

Why is it that the agricultural sector potentially stands to gain or lose significantly with GM technologies. Cite illustrations right through your answer. (20 marks)

— X —

(21)

ST.XAVIER'S COLLEGE AUTONOMOUS, MUMBAI

END SEMESTER EXAMINATION

UID No. _____

Date: Monday

Duration: 2 hours

Date: 16/12/19

Class: SYBSc/B.Sc IT

Max. Marks: 60

Subject: Representing the Nation through news media

Course Code: Spc.0401 NM

Attempt any four questions (15 marks * 4 questions)

Please explain your point of view with appropriate examples.

Q1. Define Manifest function and Latent function of News in brief. As a reader have you faced a situation where you have thought of the news values and decided upon your reading/viewing preferences? Explain. (15)

Q2. Based on the parameters of news coverage, readership pattern, accessibility and literacy rate compare mainstream newspaper with a regional newspaper that you have read. Give examples to substantiate your view. (15)

Q3. Gandhian thought of development journalism is to accelerate the process of development to bring in remarkable change in the quality of life of majority of the people. Illustrate your thoughts on this aspect with a contemporary example. (15)

Q4. List four functions of journalism and explain them in brief keeping in mind the changing socio-political situation in the Indian context. (15)

Q5. Explain stereotypes in brief. Illustrate the role of media in reinforcing stereotypes with an apt example. (15)

Q6. List types of misinformation. Mention any one particular news event that went viral because of this phenomenon in the last two years. Kindly attribute proper source to substantiate your example. (15)

Q7. Uses and Gratification theory is an audience-centered approach to understanding why people consume mass media. Keeping in mind any particular genre-daily soaps/ travel show/reality show/talk shows/Netflix series etc can you analyse the reasons behind the popularity of these shows. Explain your point of view. (15)

(25)

ST. XAVIER'S COLLEGE (AUTONOMOUS) MUMBAI

END SEMESTER EXAMS

UID No.: _____

Duration: 2 Hrs

Maximum Marks: 60

Course Code:CFC0401PM

SYBsc-Bsc-IT

Investment Analysis & Portfolio Management

D. All questions are compulsory

D. Figures to the right indicate maximum marks.

D. Use of Non - Programmable calculators is permitted.

Q.1. Write any three notes (5 marks each) (15 Marks)

Debentures

Equity shares

Intangible fixed assets

Investment Vs Speculation

(15 Marks)

Q.2. As an Investment Management Consultant you are approached by Mr.KAILASH. Help him to make his investment portfolio. His age is 39 years. His monthly income is Rs.75,000 and staying in an urban property. There are three family members in his family (including him)

i. Wife – working in a private company monthly salary Rs. 35,000

ii. Son of 5 years age.

iii. He has Rs. 10,00,000 in his Bank FD account.

iv. There is no insurance policy taken by him.

v. His monthly house hold expenses are Rs. 40,000.

- i. To create corpus Rs. 20,00,000 to purchase property (as Let Out Property) in next 5 years.**
- ii. To Purchase car Rs. 5,00,000 within next 5 years.**
- iii. To Keep Rs. 10,00,000 aside for education of children which he will need after 8 years**
- iv. Keep Rs. 50,00,000 aside for retirement.**

Q.3 Answer ANY THREE of the following.(10 Marks each) (30 marks)

A. What is Bank account deposit? What are the features of various types of bank deposit?

B. Explain the working of Mutual Funds with its types.

C. What is sec 80 of income Tax Act 1961?Explain the instruments come under sec 80.

D. "Term insurance policy is better than other life insurance policy" Do you agree or not?

E. What are the differences in Capital Market and Money Market? Explain the process of listing in stock market.
