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O-PR-S3

Time Allotted : 03 Hours

Max. Marks : 100

(80 Marks for Practical Exercise + 20 Marks for Viva-voce)

1. Write your Registration Number and Level in the space provided on the top.
2. All the three questions are compulsory. In case of Question No. 3, the candidate must attempt the question based on the subject as opted by him/her in theory examination.
3. **The 'Question Paper-cum-Worksheet' can be used for writing algorithms/flowcharts and documentation of program and the output results with relevant headings etc.**
4. The maximum marks allotted for each question is given in the parentheses.
5. **Candidate must return the 'Question Paper-cum-Worksheet' to the examiner before leaving the exam hall.**
6. All the questions should be solved on the desktop PC and demonstrated to the Examiner and Observer.
7. Wherever values/data have not been given in the Questions, the candidate can assume the data.

TO BE FILLED BY THE EXAMINER

The Identity of the candidate has been verified as per the Admit card / Attendance Sheet. The candidate has also filled all the relevant columns correctly.

Name of the Examiner

Signature

Q.No.	Marks obtained		Total
	Examiner (40 marks)	Observer (40 marks)	
1			
2			
3			
Viva Marks (20 Marks)			
Overall Total (Out of 100)			

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O LEVEL (O - PR) – BATCH : S3

1. A university maintains a year wise result for three courses and then generates an average report as given below :

SR NO	YEAR	COURSE1	COURSE2	COURSE3	AVERAGE
1	2014	300	650	560	
2	2015	450	500	400	
3	2016	490	400	250	
4	2017	600	650	350	
5	2018	500	550	450	
Course Wise Average					

- (a) Create the worksheet shown above.
- (b) Save the file with name "**Courses**".
- (c) Use the **AutoFill** to put the SR NO. into cells.
- (d) Set the **column widths** as follows : Column A : 8, Column B : 14, Columns C & D : 15, Columns E & F : 14.
- (e) Complete the report to calculate the course wise average in **row 6**.
- (f) Provide **formula** to calculate year wise average in **column F**.

OR

Create a presentation using Impress tool by making minimum 5 slides about own institution and do the following tasks :

- (a) Search web to select an appropriate model for biodata and covering letter.
- (b) Prepare own biodata to apply for a position/job w.r.t selected course of study.
- (c) Save the file.
- (d) Protect the file with a password.
- (e) Convert the file to Portable Document Format, so that the file will be seen intact in all OS platforms.
- (f) Send files through email to your friend.

25

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2. Using HTML

- (a) Create a 4x3 table
- (b) Within table, place 12 images of Indian Tourist Spots, in each box
- (c) Each image should link to the corresponding Website of the Tourist Spot
- (d) Each Image must be at least 100x100 in size

OR

Create a webpage and write a program in java script to show the result of student attendance on weekly basis for *xyz* subject. A total of 5 classes can be conducted in a week. The document should contain a form with radio buttons that allows teacher to select status of absence or presence for 5 students of a class. The page also allows to select date and time for which attendance is to be marked. On submitting attendance for a particular day it should prompt a message for successful entry. The program should display the output as :

- (i) total number of classes attended out of total number of classes conducted for each student
- (ii) %age of attendance
- (iii) Buttons should be enabled and disabled as per conditions. **25**

3. Write a program in 'C' to convert a given decimal number to its octal equivalent and vice versa. Prompt user with proper input and output messages.

OR

Write a program in 'C#' to sort an array of number. It should (a) display the greatest and smallest numbers of the array (b) delete a given element from an array and then shift rest of the elements in the array towards left.

OR

Create a WHO logo symbol as a logo to be reused in several health related applications that can be stored in a library for a Flash document as a reusable object. **30**

OR

(attempt both parts)

- (I) Write a Python function to get two matrices and multiply them. Make sure that number of columns of first matrix = number of rows of second.

And

- (II) Write Arduino program for LED fade-in and fade-out. The programmer can decide the points when the LED should fade. **15+15**

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