

देवी अहिल्या विश्वविद्यालय, इन्दौर से सम्बद्ध
परीक्षा केन्द्र : Prof. Brijmohan Mishra Institute of
Medical & Technical Sciences, burhanpur
नियमित **(Regular)** विद्यार्थियों के लिये

M.Sc. (Computer Science)1st Sem(ATKT)Examination 2019-20
Paper – Programming and Problem Solving Using C

सभी पाँच प्रश्नों के उत्तर दीजिए । सभी प्रश्नों के अंक समान हैं । M.M.- 50
Attempt all the five Questions. All questions carry equal Marks

Q.1 Design an algorithm and draw a corresponding flow chart and write a C program to find the factorial of a given number?

Q.2 What is operator in C? Explain its types with example?

Q.3 What is Array? Explain 2D array with Example?

Q.4 What do you mean by Dynamic memory allocation? How pointer is helpful in dynamic memory allocation? Give difference in malloc() and calloc().

Q.5 Write a macro to demonstrate #define, #if, #else preprocessor commands.

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**M.Sc. (Computer Science)3rd Sem(ATKT)Examination 2019-20
Paper – Theory of Computation.**

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M.M.- 50

Q.1 Define finite automata with example?

Q.2 Explain conversion of NFA to DFA?

Q.3 Explain regular grammar with example.

Q.4 Explain parsing and ambiguity in context free grammar.

Q.5 Explain PDA for context free language?

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**M.Sc. (Computer Science)3rd Sem (ATKT)Examination 2019-20
Paper – Object Oriented Programming using JAVA**

सभी पाँच प्रश्नों के उत्तर दीजिए । सभी प्रश्नों के अंक समान हैं । M.M.- 50
Attempt all the five Questions. All questions carry equal Marks

Q.1 what is Java? Explain features of java?

Q.2 What is command line arguments and how it is passing run time in java programming?

Q.3 What is interface in java? Write all the properties of interface.

Q.4 Explain Synchronization in java.

Q.5 Explain JDBC in java and how we can use it in java programming.