INSTITUTE OF MANAGEMENT SCIENCES PESHAWAR

ADMISSION TO:
MS (Computer Science)

SCHEDULE FOR ADMISSION

1. Last Date for Online Apply – Thursday, April 4, 2019
2. Admission Test – Sunday, April 14, 2019 at 10:00 am
3. List of the Candidates to Appear for Interview – Tuesday, April 16, 2019.
4. The list of Candidates Selected for Admission in different programs of IM|Sciences shall be displayed on Wednesday, May 15, 2019

ADMISSION CRITERIA (MS-Computer Science)

Candidates with at least sixteen years of education with a minimum 3.00 CGPA out of 4.00 or 60% marks in annual system in the following disciplines are eligible for admission;

- BCS/BIT/BE or BS (Telecom, Electrical, and Electronics) with minimum of 130 credit hours from HEC recognized University/DAI.
- Master degree in Computing/IT with minimum of 60 credit hours from HEC recognized University/DAI.
- Qualifying the Institute's own test/ valid GAT-General by NTS, Pakistan or any other test required by the HEC with 50% marks and interview are mandatory for admission.

ADMISSION CRITERIA (MS-Computer Science)

S. No.	ITEM	WEIGHTAGE IN PERCENTAGE
1	16 years relevant education	50
2	Written Test	40
3	Interview	10

ALLOCATION OF SEATS:

S. No.	Programs of Studies	Regular Seats
1	MS-Computer Science	35

General Instructions

1. Qualifying the written Test and appearance for the Interview are compulsory requirements for Admission.

2. Only those students who qualify the written test shall be eligible to appear for the Interview.

3. The List of the candidates to appear for the Interview shall be displayed on the Institute's Notice Board as well as on Official Website; www.imsciences.edu.pk.

4. Entrance Slip will be generated in online apply portal for all the Candidates appearing in the Test. No one will be allowed to enter the Examination Hall/Premises without the Entrance Slip.

Note: Applicants having a valid NTS GAT score for MS Programs will not be required to appear in the test, however they can take the IMSciences Entrance Test to improve their score.

5. Take Care of your entrance slip. In case you misplace your entrance slip, you can get its duplicate copy from the office of IMSciences on payment of Rs.500/.

6. All Original Documents shall be verified at the time of Admission. Applicants are required only to attach their BCS/BIT/BE or BS (Telecom, Electrical, Electronics), Master degree in Computing/IT or equivalent qualification DMCs & Provisional Certificate and three passport size photographs with admission form. Please write your name and father's name at the back of photographs. The Documents once submitted with Admission forms shall not be returned.

7. <u>No separate call letters are issued to the candidates for Test and Interview in (Master Program)</u>. All Information regarding Admission shall be displayed on the Institute's Notice Board and Official Website.

8. Prospectus along with sample question papers for the entry test can be downloaded from the online admission portal (http://admission.imsciences.edu.pk/)

9. Hostel accommodation may be provided to the candidates, subject to the availability of seats.

GUIDELINES FOR ENTRY TEST

1. Passing Marks for qualifying the Written Test for MS programs 50%.
    Passing Marks for qualifying the Interview are 40%.

2. In order to conduct the test smoothly, we need your cooperation in the form of carefully following the instructions given here and by the Instructors conducting the Test.

3. The entry test questions will be self-explanatory and we believe that you have studied and understood the instructions given here, therefore no question will be entertained.

4. During the test, do not talk, whisper, or turn your eyes or head away from your own paper. Any evidence of cheating or non-compliance with Instructions will disqualify you from the Test.

5. During the test, choose the correct answer by selecting the appropriate option i.e. a, b, c.....

6. The test is divided into 4 parts. The Instructions for each part are given on the question paper. Please follow the Instructions carefully and take care of time.
7. There will be No NEGATIVE MARKING in any part of the test.
8. Total duration of the test is 90 Minutes.
9. All the questions in the Entry Test are MCQ's and they are checked thoroughly. However, if someone is interested in rechecking, the candidate shall apply for the same within three days of the declaration of the test result. The fee for rechecking of the paper is Rs.500.
10. The Entry Test Paper will be tilted towards Discrete Structures Multimedia Technologies Image Processing, Operating System, Database, Data Structure & Algorithms, Automata, Digital Communications/Networks, Programming, Software Engineering, Digital Logic & Design.
11. The result of the Entry Test will be available on IMSciences official websites.

Instructions for PART 1
English

You are required to solve each problem and indicate the answer by filling in the answer sheet the appropriate letter i.e. A,B,C........

Marks 20

Fill in the lettered word or phrase that is most similar in meaning to the word in capital letters.

1. DESTINATION

    A. Policy
    B. Rich
    C. Goal
    D. Power
Answer: - C

2. **Fill in the lettered option in the answer sheet the word that best completes each sentence.**
    He is holding the ------- charge of his own post as president and that of Foreign Minister.

    A. Duel
    B. Dual

Answer: -   B

3. **Select the correct sentence by filling in the lettered option in the answer sheet**

   A.   We sell cars and rent.
   B.   We rent and sell cars.

Answer: -   B

4. **Fill in the blanks by filling in the lettered option in the answer sheet**

   Whatever _____ takes, you must do to accomplish your task.

   A.   May
   B.   Can
   C.   Do
   D.   It

Answer: -   D

5. **Fill in the lettered word or phrase that is most dissimilar in meaning to the word in capital letters.**

   AMBIGUOUS

   A   confused
   B   humane
   C   honest
   D   clear

Answer: -   D

Instructions for

PART 2
Quantitative

You are required to solve each problem and indicate the answer by filling in the answer sheet the appropriate letter i.e. A,B,C........

Note: -Use of Calculator is not allowed.

Marks: 15

6. **If the average of 2 & x is 7, find value of x.**

    A.   9
    B.   18
    C.   12
    D.   14
    E.   16

Answer: -   C

Instructions for
PART 3
Critical Reasoning

You are required to solve each problem and indicate the answer by filling in the answer sheet the appropriate letter i.e. A,B,C........

MARKS: 15

Examples: -

Read the following Newspaper items and choose the correct answer by filling in the answer sheet the appropriate letter a, B, C...

FELIX VALLOTTON (1865-1925)

Paintings, watercolors,
drawings and woodcuts by a
founder member of the
Nabis Group which included
Bonnard and Vuillard
among its members.
JPL Galleries
26 Davies Street
Sydney 2001.

7. **This announcement is about...**

    A.   a political meeting
    B.   a film show
    C.   an art exhibition
    D.   a musical show

Answer: -   C

DOBERMAN Pups, 6 week old, chocolate
Brown and black parents, imported pedigree
documents for buyers, selling today going
cheap. Contact 420, 240

8.   The suitable heading for the above mentioned advertisement is

A.   Miscellaneous For Sale
B.   Public Notice
C.   Astrology
D.   Pets And Kennels

Answer: -   D

Instructions for PART 4
Subject

MARKS: 50

9.   What method will get executed in the following code:
Card crd;   //Super Class Reference Variable
crd = new BirthDay("Lucinda", 42); // Object of derived class
crd.greeting();

A.   greeting() method of the super class
B.   greeting() method of the derived class.
C.   Both a and b
D.   None of the above

10.   In case of inheritance where both base and derived class are having constructors, when an object of derived class is created then_____ .
A. constructor of derived class will be invoked first
B. constructor of base class will be invoked first
C. constructor of derived class will be executed first followed by base class
D. constructor of base class will be executed first followed by derived class

11.   A page table needed for keeping track of pages of the page table is called --------------
A. 2-level paging
B. page directory
C. page size
D. page table size

12.   Multiprogramming systems
A.   Are easier to develop than single programming systems
B.   Execute each job faster
C.   Execute more jobs in the same time

D.   Are used only on large main frame computers

13.   _____ language has recently become the Defacto standard for interfacing application programs with relational database system.
A.   Oracle
B.   SQL
C.   4GL
D.   Relational query language

14.   Designers use which of the following to tune performance of systems to support time-critical operations?
A.   Denormalization
B.   Redundant optimization
C.   Optimization
D.   Realization

15.   _____ are combinational circuits that convert binary information from 'n' input lines to a maximum of 2^n unique output lines.
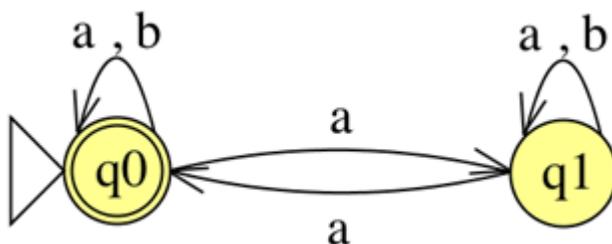A. Encoder
B. Decoder
C. Multiplexer
D. De multiplexer

16.   The following expression is an example of: (A+B).(A+C).(B+C+D)
A. SOP
B. POS
C. None of above

17.   Set of languages accepted by DFA are called
A.   Context-free languages
B.   Regular languages
C.   Context-sensitive languages
D.   Undecidable languages

18. Which of the following describes the language accepted by the Deterministic Finite Automata given below

A.   Set of all strings that start with an a
B.   Set of all strings that end with an a

C.   Set of all strings that contain a double aa
D.   Set of all strings whose length is even

19. Why IP is considered unreliable?
A.   A packet may be lost
B.   Packets arrive out of order
C.   Duplicate packets may be generated
D.   None of the above
E.   All of the above

20. Message _____ means that the data must arrive at the receiver exactly as sent.

A.   confidentiality
B.   integrity
C.   authentication
D.   none of the above