

Reg. No.

MANIPAL ACADEMY OF HIGHER EDUCATION

**SECOND SEMESTER M.Sc. FORENSIC SCIENCE
DEGREE EXAMINATION – SEPTEMBER 2021**

SUBJECT: MFS 604 – BASICS OF FORENSIC PSYCHOLOGY

Tuesday, September 14, 2021

Time: 14:00 – 16:30 Hrs.

Maximum Marks: 50

Answer ALL the questions.

Long answer questions:

1. What is meant by "*Narco-analysis*"? Explain the concept of narco-analysis in view of constitutional law and human rights.

(10 marks)

2. Discuss the history and modern perspectives of psychology.

(10 marks)

3. **Write short notes on:**

3A. Types of psychological professionals

3B. Forebrain and hindbrain

3C. Attention and awareness

3D. Forgetting

3E. Emotional Intelligence

3F. Humanistic model

(5 marks × 6 = 30 marks)



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SECOND SEMESTER M.Sc. MEDICAL (ANATOMY, PHYSIOLOGY, BIOCHEMISTRY,
PHARMACOLOGY, MICROBIOLOGY) / MSc. FORENSIC SCIENCE DEGREE
EXAMINATION – SEPTEMBER 2021

SUBJECT: MCC 602 - COMMON CORE: INTRODUCTION TO RESEARCH
MFS 602 - COMMON CORE-2: RESEARCH METHODOLOGY

Monday, September 13, 2021

Time: 14:00 – 16:30 Hrs.

Maximum Marks: 50

✍ Answer ALL the questions.

✍ Long answer questions:

1. Explain in detail the components of the research article.

(10 marks)

2A. What is the concept of Confidence Interval? Calculate the 95% confidence interval of the mean of a sample of size 10 with mean 20 and standard deviation 5.

2B. The weight of 200 students are normally distributed with mean 50 kg and standard deviation 5 kg. What percentage of students will have weight above 60 kg?

(Given: Cumulative area under Normal Curve $Z=2$ is 0.9772)

(10 marks)

3. Short Answer Questions:

3A. Find the Standard Deviation of the respiratory rate/ minute found to be 16, 18, 19, 17, 21, 24, 22, 23, 25, 28 in ten individuals.

3B. What is Probability sampling? Explain Systematic Sampling with its advantages and disadvantages.

3C. What is one-way ANOVA? Discuss its application with example.

3D. What is Experimental study design? Discuss role of Randomization in Experimental design.

3E. Assume a Population of 1000 people, of whom 300 have a disease and 700 do not have the disease. A screening Test is used to identify the 300 people with disease. Result of the screening Test is given below. Calculate Sensitivity, Specificity, PPV and NPV and comment on performance of screening Test.

Results of Screening	True Characteristic in the Population	
	Disease	No Disease
Positive	180	100
Negative	120	600
Total	300	700

3F. What is the role of informed consent in medical research?

(5 marks \times 6 = 30 marks)



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**SECOND SEMESTER M.Sc. FORENSIC SCIENCE
DEGREE EXAMINATION – SEPTEMBER 2021**

SUBJECT: MFS 606 – BASICS & APPLIED CYBER FORENSICS

Wednesday, September 15, 2021

Time: 14:00 – 16:30 Hrs.

Maximum Marks: 50

 **Answer ALL the questions.**

 **Long answer questions:**

1. Explain the salient features of Information Technology Act 2008 with reference to punishments and offences.

(10 marks)

2. Write a detailed note on Internet crimes against children.

(10 marks)

3. **Write short notes on:**

3A. Role of criminal liability in cyber-crimes.

3B. Essential amendments in Cr. P.C. due to IT Act 2000

3C. Cyber Incidence Response cycle.

3D. Digital evidence collection in computer crimes.

3E. Discuss the difference between spoofing and spamming.

3F. Explain the process of forensic accounting.

(5 marks × 6 = 30 marks)

