



PAU-003-1074007 Seat No. _____

M. C. A. (Sem. IV) Examination

August / September - 2020

E4053 : GIS, GPS & Remote Sensing

Faculty Code : 003

Subject Code : 1074007

Time : $2\frac{1}{2}$ Hours]

[Total Marks : 70

- 1 (A) Attempt following questions : 4
- (1) What RF says?
 - (2) What is Network?
 - (3) CAD stands for _____
 - (4) GIS stands for _____
- (B) Attempt Any One : 2
- (1) What are Landmark symbols in GIS?
 - (2) Explain Map Resolution.
- (C) Attempt Any One : 3
- (1) Explain Layering
 - (2) Explain Types of Map.
- (D) Attempt Any One : 5
- (1) Explain benefits of using GIS.
 - (2) Explain types of digitization of maps.

- 2** (A) Attempt following questions : **4**
- (1) What is space segment?
 - (2) India Launched First Satellite Name _____
 - (3) GPS full form _____
 - (4) What is Orbit?
- (B) Attempt Any **One** : **2**
- (1) What is triangulation in GPS?
 - (2) What is Control segment?
- (C) Attempt Any **One** : **3**
- (1) Explain DGPS components.
 - (2) Explain absolute positioning.
- (D) Attempt Any **One** : **5**
- (1) Describe Need of GPS?
 - (2) Describe various components of GPS.
- 3** (A) Attempt following questions : **4**
- (1) Full form of ECEF.
 - (2) Full form of JPL.
 - (3) Full form of MSL.
 - (4) Full form of DMA.
- (B) Attempt Any **One** : **2**
- (1) What is P-code?
 - (2) What is Troposphere?

- (C) Attempt Any **One** : **3**
- (1) Explain Multipath.
 - (2) Write a note on Signal Strength?
- (D) Attempt Any **One** : **5**
- (1) Explain GPS receivers in detail.
 - (2) Explain various use of GPS application.
- 4 (A) Attempt following questions : **4**
- (1) CIR full form _____
 - (2) What is Swath?
 - (3) What is Frequency?
 - (4) MSS Full form _____
- (B) Attempt Any **One** : **2**
- (1) What is Vertical photographs?
 - (2) What is Absorption?
- (C) Attempt Any **One** : **3**
- (1) Explain Active Sensing V/S Passive Sensing.
 - (2) What is Thermal Image?
- (D) Attempt Any **One** : **5**
- (1) Explain Resolution with example.
 - (2) Write a note Electromagnetic Spectrum.

- 5** (A) Attempt following questions : **4**
- (1) Define Size.
 - (2) DTM stands for _____
 - (3) Use of image in remote sensing.
 - (4) Types of Image.
- (B) Attempt Any **One** : **2**
- (1) What is stereoscopically?
 - (2) What is Pixel?
- (C) Attempt Any **One** : **3**
- (1) Explain Shape and Pattern.
 - (2) Explain Association and Tone.
- (D) Attempt Any **One** : **5**
- (1) Explain any two Remote Sensing Applications.
 - (2) Write a note on Digital image processing.
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