

National Testing Agency

Question Paper Name :	Basics of Remote Sensing Geographical Information System and Global Navigation Satellite System 28th
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Basics of Remote Sensing Geographical Information System and Global Navigation Satellite System

Group Number :	1
Group Id :	603489153
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Show Attended Group? :	No
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Break time :	0
Group Marks :	100
Is this Group for Examiner? :	No

Basics of Remote Sensing Geographical Information System

and Global Navigation Satellite System-1

Section Id :	603489219
Section Number :	1
Section type :	Online
Mandatory or Optional :	Mandatory
Number of Questions :	50
Number of Questions to be attempted :	50
Section Marks :	100
Enable Mark as Answered Mark for Review and Clear Response :	Yes
Sub-Section Number :	1
Sub-Section Id :	603489433
Question Shuffling Allowed :	Yes

Question Number : 1 Question Id : 60348911618 Question Type : MCQ Option Shuffling : No Is Question Mandatory : No

Correct Marks : 2 Wrong Marks : 0

Sun is assumed to a black body at a temperature of around

1. 6000K
2. 600K
3. 60K
4. None of the given options

Options :

60348944071. 1

60348944072. 2

60348944073. 3

60348944074. 4

Question Number : 2 Question Id : 60348911619 Question Type : MCQ Option Shuffling : No Is Question Mandatory : No

Correct Marks : 2 Wrong Marks : 0

Motion of a satellite in its orbit can be explained by

1. Newton's law
2. Kepler's law
3. Gauss law
4. None of the given options

Options :

60348944075. 1

60348944076. 2

60348944077. 3

60348944078. 4

Question Number : 3 Question Id : 60348911620 Question Type : MCQ Option Shuffling : No Is

Question Mandatory : No

Correct Marks : 2 Wrong Marks : 0

Units of radiant flux density is.....

1. $\text{W m}^{-2} \text{sr}^{-1}$
2. Watts sr^{-1}
3. Watts m^{-2}
4. None of the given options

Options :

60348944079. 1

60348944080. 2

60348944081. 3

60348944082. 4

Question Number : 4 Question Id : 60348911621 Question Type : MCQ Option Shuffling : No Is

Question Mandatory : No

Correct Marks : 2 Wrong Marks : 0

A curve is a graph of the spectral reflectance of an object as a function of wavelength

1. Gaussian
2. Ogive
3. Spectral reflectance
4. All of the given options

Options :

60348944083. 1

60348944084. 2

60348944085. 3

60348944086. 4

Question Number : 5 Question Id : 60348911622 Question Type : MCQ Option Shuffling : No Is

Question Mandatory : No

Correct Marks : 2 Wrong Marks : 0

Emissivity values lies between to for real bodies

1. 0 to 1
2. -1 to + 1
3. 0.5 to 1
4. None of the given options

Options :

60348944087. 1

60348944088. 2

60348944089. 3

60348944090. 4

Question Number : 6 Question Id : 60348911623 Question Type : MCQ Option Shuffling : No Is

Question Mandatory : No

Correct Marks : 2 Wrong Marks : 0

The distance between two consecutive maxima on the wave is called.....

1. Frequency
2. Wavelength
3. Wave number
4. Amplitude

Options :

60348944091. 1

60348944092. 2

60348944093. 3

60348944094. 4

Question Number : 7 Question Id : 60348911624 Question Type : MCQ Option Shuffling : No Is

Question Mandatory : No

Correct Marks : 2 Wrong Marks : 0

While performing Digital Image Classification, Minimum no. of pixels for each training site

1. $10 * \text{Number of Bands}$
2. $100 * \text{Number of Bands}$
3. 1
4. All of the given options

Options :

60348944095. 1

60348944096. 2

60348944097. 3

60348944098. 4

Question Number : 8 Question Id : 60348911625 Question Type : MCQ Option Shuffling : No Is

Question Mandatory : No

Correct Marks : 2 Wrong Marks : 0

The technique to transform a correlated dataset into uncorrelated dataset is

1. Rationing
2. Principal Component Analysis
3. Fusion
4. Classification

Options :

60348944099. 1

60348944100. 2

60348944101. 3

60348944102. 4

Question Number : 9 Question Id : 60348911626 Question Type : MCQ Option Shuffling : No Is Question Mandatory : No

Correct Marks : 2 Wrong Marks : 0

ILWIS stands for

1. Integrated Land and Water Information System
2. Independent Land and Water Information System
3. Iterative Leaf and Water Indexing system
4. None of the given options

Options :

60348944103. 1

60348944104. 2

60348944105. 3

60348944106. 4

Question Number : 10 Question Id : 60348911627 Question Type : MCQ Option Shuffling : No Is Question Mandatory : No

Correct Marks : 2 Wrong Marks : 0

Spectral reflectance curve for healthy green vegetation in the wavelength region shows a sharp rise.

1. 0.6 to 0.7 μm
2. 2.4 to 2.5 mm
3. 2.5 to 6 μm
4. All of the given options

Options :

60348944107. 1

60348944108. 2

60348944109. 3

60348944110. 4

Question Number : 11 Question Id : 60348911628 Question Type : MCQ Option Shuffling : No

Is Question Mandatory : No

Correct Marks : 2 Wrong Marks : 0

..... absorptions occur mostly in the visible region of the spectrum

1. Charge transfer
2. Electron transition
3. Both Charge transfer and Electron transition
4. None of the given options

Options :

60348944111. 1

60348944112. 2

60348944113. 3

60348944114. 4

Question Number : 12 Question Id : 60348911629 Question Type : MCQ Option Shuffling : No

Is Question Mandatory : No

Correct Marks : 2 Wrong Marks : 0

The output from a thermal sensor is a measurement of the temperature of an object

1. Kinetic
2. Radiant
3. Blackbody
4. Infrared

Options :

60348944115. 1

60348944116. 2

60348944117. 3

60348944118. 4

Question Number : 13 Question Id : 60348911630 Question Type : MCQ Option Shuffling : No

Is Question Mandatory : No

Correct Marks : 2 Wrong Marks : 0

What are the main geological hazards that affect Himalaya?

1. Landslide
2. Earthquake
3. Avalanches
4. All of the given options

Options :

60348944119. 1

60348944120. 2

60348944121. 3

60348944122. 4

Question Number : 14 Question Id : 60348911631 Question Type : MCQ Option Shuffling : No

Is Question Mandatory : No

Correct Marks : 2 Wrong Marks : 0

In India biodiversity..... ?

1. Increases from tropical forest to alpine forest
2. Decrease from tropical forest to alpine forest
3. Same throughout the forests
4. All of the given options

Options :

60348944123. 1

60348944124. 2

60348944125. 3

60348944126. 4

Question Number : 15 Question Id : 60348911632 Question Type : MCQ Option Shuffling : No

Is Question Mandatory : No

Correct Marks : 2 Wrong Marks : 0

Which one among the following is not the criteria to define an urban area?

1. A minimum population of 5,000
2. At least 75% of male working population engaged in non-agricultural pursuits
3. Having a minimum area of 50 acres
4. Density of population of at least 400 persons per sq. km

Options :

60348944127. 1

60348944128. 2

60348944129. 3

60348944130. 4

Question Number : 16 Question Id : 60348911633 Question Type : MCQ Option Shuffling : No

Is Question Mandatory : No

Correct Marks : 2 Wrong Marks : 0

Which microwave wavelength is used to retrieve ocean salinity ?

1. 1.4 GHz
2. 14.3 GHz
3. 10.8 GHz
4. 50.5 GHz

Options :

60348944131. 1

60348944132. 2

60348944133. 3

60348944134. 4

Question Number : 17 Question Id : 60348911634 Question Type : MCQ Option Shuffling : No

Is Question Mandatory : No

Correct Marks : 2 Wrong Marks : 0

Data definition Language (DML) defines??

1. Database schema
2. Database connectivity
3. Language for accessing and manipulating records
4. Data management language

Options :

60348944135. 1

60348944136. 2

60348944137. 3

60348944138. 4

Question Number : 18 Question Id : 60348911635 Question Type : MCQ Option Shuffling : No

Is Question Mandatory : No

Correct Marks : 2 Wrong Marks : 0

..... function is QGIS allows to Link Spatial and Non-Spatial Data

1. Union
2. Intersect
3. Symmetric Difference
4. None of the given options

Options :

60348944139. 1

60348944140. 2

60348944141. 3

60348944142. 4

Question Number : 19 Question Id : 60348911636 Question Type : MCQ Option Shuffling : No

Is Question Mandatory : No

Correct Marks : 2 Wrong Marks : 0

To link spatial and non-spatial data (with geometry) in QGIS,tool is used ?

1. Add SQL Anywhere Layer
2. Add WCS Layer
3. Add WFS Layer
4. Add Delimited Text Layer

Options :

60348944143. 1

60348944144. 2

60348944145. 3

60348944146. 4

Question Number : 20 Question Id : 60348911637 Question Type : MCQ Option Shuffling : No

Is Question Mandatory : No

Correct Marks : 2 Wrong Marks : 0

Digital Image is composed of tiny areas known as pixels. With each pixel is associated a number known as ?

1. Brightness Value
2. Grey Level
3. Both Brightness value and Grey Level
4. None of the given options

Options :

60348944147. 1

60348944148. 2

60348944149. 3

60348944150. 4

**Question Number : 21 Question Id : 60348911638 Question Type : MCQ Option Shuffling : No
Is Question Mandatory : No**

Correct Marks : 2 Wrong Marks : 0

The rectification accuracy is expressed in terms oferror.

1. Commission
2. Root Mean Square
3. Kappa
4. Omission

Options :

60348944151. 1

60348944152. 2

60348944153. 3

60348944154. 4

**Question Number : 22 Question Id : 60348911639 Question Type : MCQ Option Shuffling : No
Is Question Mandatory : No**

Correct Marks : 2 Wrong Marks : 0

Bilinear interpolation use weighted average of nearest pixels

1. 1
2. 4
3. 16
4. None of the given options

Options :

60348944155. 1

60348944156. 2

60348944157. 3

60348944158. 4

Question Number : 23 Question Id : 60348911640 Question Type : MCQ Option Shuffling : No

Is Question Mandatory : No

Correct Marks : 2 Wrong Marks : 0

Which is not a programing language

1. XML
2. Python
3. C++
4. Java

Options :

60348944159. 1

60348944160. 2

60348944161. 3

60348944162. 4

Question Number : 24 Question Id : 60348911641 Question Type : MCQ Option Shuffling : No

Is Question Mandatory : No

Correct Marks : 2 Wrong Marks : 0

WFS stands for ?

1. Web Feature Service
2. World Feature Service
3. Web Feature Server
4. Web Frequency Services

Options :

60348944163. 1

60348944164. 2

60348944165. 3

60348944166. 4

Question Number : 25 Question Id : 60348911642 Question Type : MCQ Option Shuffling : No

Is Question Mandatory : No

Correct Marks : 2 Wrong Marks : 0

Scattered light reaching the sensor from the atmosphere known as _____ is an additive effect reducing contrast of image

1. Skylight
2. Haze
3. Sunangle
4. SLD

Options :

60348944167. 1

60348944168. 2

60348944169. 3

60348944170. 4

Question Number : 26 Question Id : 60348911643 Question Type : MCQ Option Shuffling : No

Is Question Mandatory : No

Correct Marks : 2 Wrong Marks : 0

Data is called more accurate when

1. Data is clustered around true mean
2. Data is clustered around measured mean
3. Data is fully distributed
4. None of the given options

Options :

60348944171. 1

60348944172. 2

60348944173. 3

60348944174. 4

Question Number : 27 Question Id : 60348911644 Question Type : MCQ Option Shuffling : No

Is Question Mandatory : No

Correct Marks : 2 Wrong Marks : 0

OGC stands for?

1. Open Geospatial Consortium
2. Open Geographical Consortium
3. Offline Geographical Consortium
4. None of the given options

Options :

60348944175. 1

60348944176. 2

60348944177. 3

60348944178. 4

Question Number : 28 Question Id : 60348911645 Question Type : MCQ Option Shuffling : No

Is Question Mandatory : No

Correct Marks : 2 Wrong Marks : 0

Positional error is error due to ?

1. Incorrect labelling of features
2. Imprecision in coordinate registration
3. Biasness
4. None of the given options

Options :

60348944179. 1

60348944180. 2

60348944181. 3

60348944182. 4

Question Number : 29 Question Id : 60348911646 Question Type : MCQ Option Shuffling : No

Is Question Mandatory : No

Correct Marks : 2 Wrong Marks : 0

Example of spatial data is ?

1. Points showing location of discrete objects
2. Attribute data
3. Time of events
4. None of the given options

Options :

60348944183. 1

60348944184. 2

60348944185. 3

60348944186. 4

Question Number : 30 Question Id : 60348911647 Question Type : MCQ Option Shuffling : No

Is Question Mandatory : No

Correct Marks : 2 Wrong Marks : 0

Key application discipline of GIS is ?

1. Physics and Chemistry
2. Astronomy
3. Transport
4. None of the given options

Options :

60348944187. 1

60348944188. 2

60348944189. 3

60348944190. 4

Question Number : 31 Question Id : 60348911648 Question Type : MCQ Option Shuffling : No

Is Question Mandatory : No

Correct Marks : 2 Wrong Marks : 0

What is Geocoding?

1. Joining spatial and non spatial data
2. Converting address into point location
3. Assigning class lable to pixels
4. None of the given options

Options :

60348944191. 1

60348944192. 2

60348944193. 3

60348944194. 4

Question Number : 32 Question Id : 60348911649 Question Type : MCQ Option Shuffling : No

Is Question Mandatory : No

Correct Marks : 2 Wrong Marks : 0

If a detector fails to function during a scan, this can result in an entire line of data with no spectral information. This error is called as

1. Line Striping
2. Line Banding
3. Line Dropout
4. Geometric

Options :

60348944195. 1

60348944196. 2

60348944197. 3

60348944198. 4

Question Number : 33 Question Id : 60348911650 Question Type : MCQ Option Shuffling : No

Is Question Mandatory : No

Correct Marks : 2 Wrong Marks : 0

In a 1:100000 scale map, 1 cm on map corresponds to _____ kilometers on the ground?

1. 1 Km
2. 0.1 Km
3. 10 Km
4. 100 Km

Options :

60348944199. 1

60348944200. 2

60348944201. 3

60348944202. 4

Question Number : 34 Question Id : 60348911651 Question Type : MCQ Option Shuffling : No

Is Question Mandatory : No

Correct Marks : 2 Wrong Marks : 0

What is the difference between join and relate in ArcGIS?

1. There is no difference, they both have one to many relationship
2. Relate has one to one relationship, and join has one to many relationship
3. Join has one to one relationship, and relate has one to many relationship
4. There is no difference, they both have one to one relationship

Options :

60348944203. 1

60348944204. 2

60348944205. 3

60348944206. 4

Question Number : 35 Question Id : 60348911652 Question Type : MCQ Option Shuffling : No

Is Question Mandatory : No

Correct Marks : 2 Wrong Marks : 0

Output of point in polygon overlay is ?

1. Line coverage
2. Point coverage
3. Polygon coverage
4. None of the given options

Options :

60348944207. 1

60348944208. 2

60348944209. 3

60348944210. 4

Question Number : 36 Question Id : 60348911653 Question Type : MCQ Option Shuffling : No

Is Question Mandatory : No

Correct Marks : 2 Wrong Marks : 0

To locate a highway crossing over a state, we will usespatial relationship

1. overlap
2. meet
3. contains
4. inside

Options :

60348944211. 1

60348944212. 2

60348944213. 3

60348944214. 4

Question Number : 37 Question Id : 60348911654 Question Type : MCQ Option Shuffling : No

Is Question Mandatory : No

Correct Marks : 2 Wrong Marks : 0

"OR" operator is equivalent to _____ operator of set theory

1. Intersection
2. Union
3. Identity
4. None of the given options

Options :

60348944215. 1

60348944216. 2

60348944217. 3

60348944218. 4

Question Number : 38 Question Id : 60348911655 Question Type : MCQ Option Shuffling : No

Is Question Mandatory : No

Correct Marks : 2 Wrong Marks : 0

Total number of GLONASS satellites in the orbit as of now ?

1. 20
2. Less than 12
3. 6
4. More than 22

Options :

60348944219. 1

60348944220. 2

60348944221. 3

60348944222. 4

Question Number : 39 Question Id : 60348911656 Question Type : MCQ Option Shuffling : No

Is Question Mandatory : No

Correct Marks : 2 Wrong Marks : 0

IGS stands ?

1. Internal Geographic system
2. International GNSS services
3. International geographic system
4. Intra GPS systems

Options :

60348944223. 1

60348944224. 2

60348944225. 3

60348944226. 4

Question Number : 40 Question Id : 60348911657 Question Type : MCQ Option Shuffling : No

Is Question Mandatory : No

Correct Marks : 2 Wrong Marks : 0

The RINEX format consists of ?

1. Observation file
2. Navigation file
3. Metrological file
4. All of the given options

Options :

60348944227. 1

60348944228. 2

60348944229. 3

60348944230. 4

Question Number : 41 Question Id : 60348911658 Question Type : MCQ Option Shuffling : No

Is Question Mandatory : No

Correct Marks : 2 Wrong Marks : 0

GPS navigation message has..... ?

1. 5 subframes
2. 50 subframes
3. 500 subframes
4. None of the given options

Options :

60348944231. 1

60348944232. 2

60348944233. 3

60348944234. 4

Question Number : 42 Question Id : 60348911659 Question Type : MCQ Option Shuffling : No

Is Question Mandatory : No

Correct Marks : 2 Wrong Marks : 0

Which of the following system has the same signal transmission for anti-nodal satellites ?

1. IRNSS
2. GPS
3. Compass
4. GLONASS

Options :

60348944235. 1

60348944236. 2

60348944237. 3

60348944238. 4

Question Number : 43 Question Id : 60348911660 Question Type : MCQ Option Shuffling : No

Is Question Mandatory : No

Correct Marks : 2 Wrong Marks : 0

Technologies leading to mobile mapping include ?

1. Remote Sensing , GIS, GPS
2. Multi-platform & multi-sensor integrated mapping technology
3. ICT / internet / wireless communication
4. All the given options

Options :

60348944239. 1

60348944240. 2

60348944241. 3

60348944242. 4

Question Number : 44 Question Id : 60348911661 Question Type : MCQ Option Shuffling : No

Is Question Mandatory : No

Correct Marks : 2 Wrong Marks : 0

Applications of Mobile Mapping includes ?

1. Street sign inventory
2. Crop management
3. Property damage assesment
4. All the given options

Options :

60348944243. 1

60348944244. 2

60348944245. 3

60348944246. 4

Question Number : 45 Question Id : 60348911662 Question Type : MCQ Option Shuffling : No

Is Question Mandatory : No

Correct Marks : 2 Wrong Marks : 0

PDA stands for ?

1. Personal data assistant
2. Power distribution assembly
3. Personal digital assistant
4. Process data acquisition

Options :

60348944247. 1

60348944248. 2

60348944249. 3

60348944250. 4

Question Number : 46 Question Id : 60348911663 Question Type : MCQ Option Shuffling : No

Is Question Mandatory : No

Correct Marks : 2 Wrong Marks : 0

Mobile Mapping is the result of integrating different technologies which include

1. Lightweight hardware / PDA with GIS
2. Global positioning system (GPS)
3. Wireless communication
4. All the given options

Options :

60348944251. 1

60348944252. 2

60348944253. 3

60348944254. 4

Question Number : 47 Question Id : 60348911664 Question Type : MCQ Option Shuffling : No

Is Question Mandatory : No

Correct Marks : 2 Wrong Marks : 0

Which Department of Government of India is instrumental in developing Indian GPS system ?

1. Department of Defense
2. Department of Space
3. Department of Science and Technology
4. Defense Research and Development Organization

Options :

60348944255. 1

60348944256. 2

60348944257. 3

60348944258. 4

Question Number : 48 Question Id : 60348911665 Question Type : MCQ Option Shuffling : No

Is Question Mandatory : No

Correct Marks : 2 Wrong Marks : 0

GDOP stands for ??

1. Gravitational dilution of precision
2. Geometrical dilution of precision
3. Geomorphological dilution of precision
4. Geographical Dilution of Precision

Options :

60348944259. 1

60348944260. 2

60348944261. 3

60348944262. 4

Question Number : 49 Question Id : 60348911666 Question Type : MCQ Option Shuffling : No

Is Question Mandatory : No

Correct Marks : 2 Wrong Marks : 0

GPS gives height above ?

1. MSL
2. Everest spheroid
3. WGS 84
4. WGS85

Options :

60348944263. 1

60348944264. 2

60348944265. 3

60348944266. 4

Question Number : 50 Question Id : 60348911667 Question Type : MCQ Option Shuffling : No

Is Question Mandatory : No

Correct Marks : 2 Wrong Marks : 0

Spectro-radiometer is a instrument

1. Ground based
2. Space-borne
3. Air borne
4. All of the given options

Options :

60348944267. 1

60348944268. 2

60348944269. 3

60348944270. 4