**(Printed Pages 02)**

**Roll No. \_\_\_\_\_\_\_\_\_\_\_\_**

**MGO-3324**

**M.A. (III Semester) Examination, December 2018**

**GEOGRAPHY**

 **GIS & its Application**

*[Time Allowed: Three Hours] [Maximum Marks: 70]*

**Note:** Attempt all questions.

**Q. 1.** Attempt any **six** from the following questions. **5\*6=30**

1. Throw light on the origin of GIS.

th0vkbZ0,l0 dh mRifRr ij izdk'k MkysA

1. Write a note on web GIS.

osc th0vkbZ0,l0 ij ys[k fy[ksA

1. Write a short note on ellipsoid and geoid.

bfyIlkbM ,oa ftvks,M ij laf{kIr esa ys[k fy[ksA

1. Overlay operations in GIS.

vf/kfp=.k izpkyu ¼vksojys vksijs'ku½ th0vkbZ0,l0 esaA

1. Mobile GIS

eksckbZy th0,l0vkbZ0

1. What is open source GIS? Give Example.

vksiu lkslZ th0vkbZ0,l0 D;k gS\ mnkgj.k nhft,A

1. Database management system.

MkVk csl izcU/ku ra=A

1. Write a note on the application of GIS in land use mapping.

Hkwfe mi;ksxeku fp=.k esa th0vkbZ0,l0 ds vuqiz;ksx ij ys[k fy[ksA

**Q. 2.** What is GIS? Describe the components of GIS. **10**

 th0vkbZ0,l0 D;k gS\ th0vkbZ0,l0 ds ?kVdksa dk o.kZu dhft,A

**OR**

Why is GIS advantageous than CADD or other mapping softwares? Explain with examples.

lh0,0Mh0Mh0 ¼dSM½ ;k nwljs ekufp=.k lkWQ~Vos;j ls th0vkbZ0,l0 D;ksa ykHkdkjh gS\ mnkgj.k nsdj le>kb,A

**Q. 3.** What is map projection? Discuss its types and characteristics. **10**

 ekufp= iz{ksi D;k gS\ buds izdkj ,oa izd`fr dh foospuk dhft,A

**OR**

What Geo-spatial data? Write in detail its types and characteristics.

Hkw&/kjkryh; vkadM+s D;k gksrs gS\ buds izdkj ,oa izd`fr ds ckjs esa foLrkj ls fy[ksA

**Q. 4.** Differentiate between raster and vector data models. Discuss their advantages and disadvantages in detail. **10**

 jkLVj ,oa osDVj vkWdM+ksa ds chp ds vUrj crkb;sA nksuksa ds ykHk ,oa gkfu dh foLrkj iwoZd O;k[;k dhft,A

**OR**

What is DEM? Discuss its types and application.

Mse D;k gS\ blds izdkj ,oa vuqiz;ksx dh foospuk dhft,A

**Q. 5.** Discuss the application of GIS in agriculture and hydrology. **10**

 d`f"k ,oa ty foKku esa th0vkbZ0,l0 ds vuqiz;ksx dh foospuk dhft,A

**OR**

Throw light on “Integration of GIS with Remote Sensing”.

 ^^th0vkbZ0,l0 ,oa lqnwj laosnu ds ,dhdj.k\*\* fo"k; ij izdk'k Mkfy;sA