OR

tÑàyàªàÊà| §ý âw§ýày qÊ ¡àvh âvâh¥ ñ

Write an essay on evolution of oceans.

ZàÎÂà-3. wvÂà §ýL qáÊsàxà Àããk¥ mnà £Âà§ýà ³uààtâm§ý wªàJ§ýÊ½à yt l à¢¥ ñ

Define fold and explain geometrical classification of folds.

OR

âwxtâwÂuày §ý ¡âsÂàoàÊ½à ¥w| tÑ¼w §ýà yt l à¢¥ ñ

Write about criterion of recognition of unconformity and give its geological significance.

ZàÎÂà-4. yâo §ýL qáÊsàxà Àããk¥ ¥w| £Âà§ýà ³uààtâm§ý wªàJ§ýÊ½à yt l à¢¥ ñ

Define joint and explain geometrical classification of joints.

OR

qØà½à yÊj Âàà §ýL qáÊsàxà Àããk¥ ¥w| qØà½à §ý Zà§ýàÊà| §ýà yt l à¢¥ ñ

Define foliation and discuss various types of foliation.

ZàÎÂà-5. sàÊm §ý Zàà§ýâm§ý âwsàkÂà qÊ ¡àvh âvâh¥ ñ

Write an essay on 'Physiographic-Divisions of India.

OR

Îàv âwÚq½à §ýL ¡woàÊ½àà §ýL kàÂà§ýàÊã Àããk¥ ñ

Explain the concept of rock deformation.

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Annual Examination - 2017

B.Sc.-II

GEOLOGY

Paper - I

GEODYNAMICS AND STRUCTURAL GEOLOGY

Max.Marks : 50

Time : 3 Hrs. **Min Marks : 17**

¹ãq ß h½»| '¡' t| Ày ¡âmv i ÙàÊã ZàÎÂà Ñ, âkÂÑ Ñv §ýÊÂàà ¡âÂàwàu Ñ ñ h½»| 'r' t| v i ÙàÊã ZàÎÂà h½»| 'y' t| Àã i £ÙàÊãu ZàÎÂà Ñ ñ h½»| '¡' §ýà yry qÑv Ñv §ýÊ| ñ

Note: Section 'A' , containing 10 very short answer type questions, is compulsory. Section 'B' consists of short answer type questions and Section 'C' consists of long answer type questions. Section 'A' has to be solved first.

h½»|-'¡'(Section-'A')

âÂàÈÂààâ§ým ¡âm v i £ÙàÊãu ZàÎÂàà| §ý £ÙàÊ ¥§ý uà Àà| wà¨uà| t| À| ñ **(Answer the following very short-answer-type questions in one or two sentences)** **(1x10=10)**

ZàÎÂà-1. q¿wã §ý ªàÚ¼w §ýà tàÂà âvâh¥ ñ

Write the value of Gravity of the Earth.

ZàÎÂà-2. yt0Ðnâm §ýà ây÷àm â§ýyÂà| âÀuà?

Who coined the theory of isostasy?

ZàÎÂà-3. â§ýyã ¥§ý tÁu yt0ã qwm §ýà Âààt âvâh¥ ñ

Write the name of any one mid-oceanic ridge.

ZàÎÂà-4. Ãv¹| âwwmâÂà§ýL §ý ây÷àm §ý ¡Ààyâ tÑàõãqãu jàq â§ýÂà ÕàØàà| t| qàu| kàm Ñ?

Where will you get island arcs according to the theory of plate tectonics?

ZàÎÂà-5. Ãv¹|y §ý Zà§ýàÊ âvâh¥ ñ

Write the types of plates.

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ZàÎÂà-6. §ýà½ààu âwxtâwÂuày §ýà qáÊsààxm §ýLâk¥ ñ

Define the angular unconformity.

ZàÎÂà-7. ytâtm wvÂà §ýà qáÊsààxm §ýLâk¥ ñ

Define symmetrical fold.

ZàÎÂà-8. £¼§ýt sÎà §ýL qáÊsàxà Àââk¥ ñ

Define reverse fault.

ZàÎÂà-9. ¡àoàÊ ¥w Îààx âÂàoàÊ½à §ý âv¥ £quàªà t ¡àÂà wàvã Àà yÊjÂàà¡à §ý Âààt âvâh¥ ñ

Write name of two structures used in recognising top and bottom of a formation.

ZàÎÂà-10. sàÊm §ýà Zàà§ýâm§ý sªààv §ýL Yâ¯y â§ýÂà-â§ýÂà sàªàà t âwsààkm â§ýuà ªuà Ñ?

Write the names of physiographic divisions of India.

h½»|-'r' (Section-'B')

ââàÈÂààâ§ým vi £ÙàÊâu ZàÎÂààà §ý £ÙàÊ 150-200 ÎàÈÀ-yâtà t Àà ñ

(Answer the following short-answer type questions with word limit 150-200) **(3x5=15)**

ZàÎÂà-1. qwmÂà §ýL qáÊsàxà Àââk¥ ñ

Define orogeny.

OR

tÑàõâqâu âwÐnàqÂà §ý Zàtà½à yÕàq t rmà¢¥ ñ

Give the evidences of continental drift in brief.

ZàÎÂà-2. tÑàõâqâu 'ÎàÌÀý' ÕàØà §ýL kàÂà§ýàÊã Àââk¥ ñ

Give information about continental shelf area.

OR

yâ§ýu sÎà §ýL qáÊsàxà ¥w £y§ýà £ÀàÑÊ½à Àââk¥ ñ

Define active fault and give its example.

ZàÎÂà-3. YÏuàÎàà qÊ wvÂà §ý Zàsàw §ýà yâÕàÄm ¡à§ývÂà §ýÊ ñ

Write about the effect of folding on outcrops.

OR

wvÂà §ýL ¡à§ýáâÊ§ýL §ýà âjØà õàÊà ytlà¢¥ ñ

Explain the morphology of fold with suitable diagram.

ZàÎÂà-4. sÎà §ýL qáÊsàxà Àââk¥ mnà £y§ý ¡wuwà §ýà âjØà õàÊà ytlà¢¥ ñ

Define fault and explain the parts of fault with suitable diagram.

OR

Êh½à §ýà qáÊsààxm §ýLâk¥ mnà Êh½à §ý Zà§ýàÊà §ý Âààt âvâh¥ ñ

Define lineation and write the names of various types of lineation.

ZàÎÂà-5. Zàànât§ý ¡wyàÀã yÊjÂàà¡à §ýà ¡àoàÊ ¥w Îààx âÂàoàÊ½à t £quàâªàmà rmà¢¥ ñ

Explain the use of sedimentary structure in recognition of 'Top & Bottom' of a formation.

OR

yàtàÂu sÎà §ýL uààØà§ýL âvâh¥ ñ

Explain the mechanics of normal fault.

h½»|-'y' (Section-'C')

ââàÈÂààâ§ým Ààii £ÙàÊâu ZàÎÂààà §ý £ÙàÊ 300-350 ÎàÈÀ-yâtà t Àà ñ

(Answer the following long-answer type questions with word limit 300-350) **(5x5=25)**

ZàÎÂà-1. q¿wã §ý ªàÚ¼w ¥w jÈr§ýLumà §ýL Íuà©uà §ýLâk¥ ñ

Explain gravity and magnetism of the earth.

OR

qwm âÂàtà½à§ýàÊã ªàâmâwâouà ¥w §ýàuàÂmÊ½à §ý ¡myroà §ýL âwwjÂàà §ýLâk¥ ñ

Discuss the relationship of orogeny to metamorphism.

ZàÎÂà-2. Âv¹âwwmâÂà§ýL §ýL ÛýqÊhà Àââk¥ ñ

Give the outline of Plate Tectonics.