INSTRUCTIONS

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Candidates should attempt Question Nos. 1 and 5 which are compulsory, and any three of the remaining questions, selecting at least one question from each Section.

All questions carry equal marks.
SECTION - A

1. Write notes on any three of the following in about 200 words each:
   (a) Shadow zone
   (b) Radioactivity
   (c) Geomorphic cycle
   (d) Stress and strain ellipsoid.

2. Discuss in detail, the theory of Plate Tectonics.

3. Write notes, in brief, on the following:
   (a) Overthrust
   (b) Mechanics of folding
   (c) Relief features
   (d) Eu- and Mio-geosynclines
   (e) Midoceanic ridges.

4. Discuss genesis and types of mountains.
1. ಸಂಸ್ಥಾಪಕರು ಹಾಗು 200 ಸಂಸ್ಥಾಪರು ಸ್ವಾಮ್ಯತ್ವಕ್ಕೆ ರೂಪಿಸುವ ಸಂಸ್ಥೆನು ಮಾಡುವುದು:
   (a) ದೇಶದ ವಿಶೇಷ್ಷ
   (b) ವಿಭಾಗದ ವಿಶೇಷ್ಷ
   (c) ಜನರ ವಿಶೇಷ್ಷ
   (d) ಸಂಸ್ಥಾನದ ವಿಶೇಷ್ಷ

2. ಪ್ಲೇಟ್ಟೆಕ್ಟನಿಕ್ಸ್ (Plate Tectonics) ಅವರು ಸ್ವಯಂ ಸ್ವಯಂಭರಭಾಗ ಆಗುತ್ತಾರೆ.

3. ಎಂಜಿನಿಯರಿಂಗ್ ಸಾಮಾನ್ಯವಾಗಿ ಮಾಡುವುದು:
   (a) ಪ್ರತಾಪ (Overthrust)
   (b) ಮರಗ ಮರೆಗಳು (Mechanics of folding)
   (c) ಪ್ರತಾಪರು ಪ್ರತಾಪ (Relief features)
   (d) ಇದು, ಮಿಯ-ಮಿಯ-ಮಿಯ
   (e) ಮಧ್ಯೆ-ಮಧ್ಯೆಯೊಳಗಾಗಿ ಮಧ್ಯೆ (Mid-oceanic ridges)

4. ಮಧ್ಯರ್ದಿನ್ ರೇಖೆಗಳು ಕಾಲ್ಮುಕರೊಳಗು ತೆರೆದು ಮಾಡುವುದು.
SECTION – B

5. Give an account of any three of the following in about 200 words each:
   (a) Peninsular Gneiss
   (b) Fringing coral reefs
   (c) Preservation of fossils
   (d) Lithostratigraphic correlation.

6. Describe various groups of vertebrates along with their important morphological characters.


8. Write short notes on:
   (a) Age of the Deccan Traps
   (b) Significance of unconformity in Stratigraphy
   (c) Siwalik mammals.
5. (a)  ಪ್ರಾರ್ಥನೆಯಿಂದ ಹಂಚಿಕೊಂಡಿರುವ ಪ್ರಶ್ನೆ, ಎರಡು ಕೋಟೆಯ ಮತ್ತು 200 ಮಟ್ಟಿನಲ್ಲಿವೆ:

(b)  ಗುಂಪಿ (Fringing) ಶಾಖೆಯ ನಡುವೆ

(c)  ಎಣ್ಣೆಪ್ರತ್ಯೇಕ ರೀತಿಯಲ್ಲಿ

(d)  ಲಿಥೋಷ್ಟ್ರಾಟಿಗ್ರಿಫಿಕಿ (Lithostratigraphic) ರೀತಿಯಲ್ಲಿ

6. ಹೊಂದಿರುವ ಮೇಲೆ ಸಂದರ್ಭಗಳಲ್ಲಿ ಅವರು ಹಾಗೂ ಇತರ ಫೀಡಿಯಂಗಿನಲ್ಲಿ ಹೊಂದಿರುವ

7. ಹೊಂದಿರುವ ಹೆಸರು ಹಾಗೂ ಹಂಚಿಕೊಂಡಿರುವ ಶಾಖೆ, ಲಿಥೋಣ್ಯಾಲೋಜಿಕಲ್ (Lithological) ರೀತಿಯಲ್ಲಿ ಹೊಂದಿರುವ ಅದರ ಸಂದರ್ಭ ಹಾಗೂ ಫಾರಲ್ (Flora) ರೀತಿಯಲ್ಲಿ ಹೊಂದಿರುವ ಅದರ

8. (a)  ಸಂಯುಕ್ತ ವೈಶಿಷ್ಟ್ಯವನ್ನು ಹಾಗೂ ಪ್ರಶ್ನೆಯನ್ನು ಮೂಲಕೆಸಿದ್ದಾರೆ:

(b)  ಸ್ವೀಕಾರಿಸಿದ್ದಾರೆ ಹಾಗೂ ಅರ್ಥಶಾಸ್ತ್ರ ಅಸ್ಪುಟ

(c)  ಹಾಗೂ ಕೇಂದ್ರ ಕಾಲೇಜ್ ಅರ್ಥಶಾಸ್ತ್ರ

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All questions carry equal marks.
SECTION - A

1. Write notes on any *three* of the following in about 200 words each:

   (a) Principles of X-ray

   (b) Polymorphism

   (c) Optical indicatrix

   (d) Nature and composition of basaltic magma.

2. Describe the optical and chemical properties of pyroxene group of minerals.

3. Discuss various methods of classification of sedimentary rocks.


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పత్రం - A

1. ఎందరెడు ఎంచుక 200 మిలిఎండీ శాస్త్రంతో కార్యంలు చేసి పిలుచుకోవచ్చు:
   (a) మూసాంకర అవసరాలు
   (b) కొనవస్తు అవసరాలు
   (c) ప్రత్యేకపదార్థ ( Optical indicatrix )
   (d) మిశ్రసరూర్తి ప్రత్యేక అవసరాలు కోసం సంస్థాలు

2. కార్యాలయలు సమాచారం సమాధానం సూచించి సమాచారం సమాధానం సూచించి సమాధానం సూచించి సమాధానం సూచించి సమాధానం సూచించి సమాధానం

3. మధ్య భాగం మాత్రమే మాత్ర మధ్య భాగం మాత్ర మధ్య భాగం మాత్ర మధ్య భాగం మాత్ర మధ్య భాగం మాత్ర

4. ప్రత్యేకపదార్థాల ఉపయోగం ( Petrogenesis ) పరిస్థితిలో, ప్రత్యేకపదార్థాల ఉపయోగం.
SECTION - B

5. Write notes on any three of the following in about 200 words each:
   (a) Pb-Zn deposits of Zawar
   (b) Beach placers
   (c) Conservation of economic minerals
   (d) Methods of sampling.

6. Discuss geological investigations in tunnelling.

7. Describe stratigraphy and structure of the 'Bombay-offshore' oil field.

8. Give a detailed account of Nellore Mica Belt.


1. ಸ್ವಾಧಿನಿಯಾಗಿ, ಅನುಭವಮಾಡಿದರೆ, ಸೂಚಿಸಿದ ಉತ್ತಮವೆಂದರೆ, 200 ಸ್ವರೂಪ, ಮರಾದ:
   (a) ಪ್ಲೇಟಿಮ್‌ನು ಪಿಬ - Zn ಎಣ್ಣೆಗಳು
   (b) ಮೂಲ ಸೂಚನೆಗಳು
   (c) ಸ್ವರೂಪ ಅವರೆಣವರ
   (d) ಸ್ಪೆಂಟರ್ (Sampling) ಎಣ್ಣೆಗಳು

2. ಎಕರೆ ಹುಟ್ಟುಸ್ಕೆಲ್ಲೆಗೆ ತೀರ್ಪು ನೀಡಲೇ ಮೇಲೆಂದರೆ ಮರಾದ.

3. ಮೂಲ್ಯೋಣೆಗಳಿಗೆ ನೂರು ಸ್ವರೂಪಗಳು ಹೆಸರು ಮೂಲಕ ನೀಡಲೇ ಮರಾದ.

4. ಸ್ವರೂಪದ ಅನುಕೂಲ ಸೂಚಿಸಲು ಇದರೆ ಸ್ವಲಾ.

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