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(Pages : 2)

Reg. No:.....

Name: .....

FAROOK COLLEGE (AUTONOMOUS), KOZHIKODE

Sixth Semester Integrated M.Sc. Geology Degree Examination, April 2023

GL06IB09 - ECONOMIC GEOLOGY  
(2020 Admission onwards)

Time: 2 hours

Max. Marks : 60

*(Draw neat sketches, wherever necessary)*

**PART – A**

Answer *all* questions.

Each question carries Two mark.

Ceiling -20 Marks

1. What is ore grade?
2. Write about evaporate deposits?
3. How kerogen is different from macerals?
4. What is skarn deposit?
5. What is oil trap?
6. What are refractory minerals?
7. What are source rocks in oil formation?
8. What are manganese nodules?
9. What is meant by siderophile elements?
10. Difference between saddle reef and stock-work deposits?
11. Write about epithermal deposits?
12. What are fissure veins?

**PART – B**  
**Answer *all* questions.**  
**Each question carries Five marks.**  
**Ceiling -30 Marks**

13. Define placer deposits? Explain different types of placers?
14. Elaborate process of residual concentration with an example?
15. Differentiate cavity filling and replacement deposits?
16. Explain metamorphic process? How graphite and asbestos formed by this process?
17. Brief different metallogenic provinces of India?
18. What are the important petroliferous basins of India?
19. What are the radioactive minerals present in Kerala, write about their distinguishing properties, uses and distribution?
20. Explain the mode of occurrence and formation Manganese and Iron minerals?

**PART - C**  
**Answer any *one* question.**  
**Each question carries Ten marks.**

21. Write an essay on oxidation and supergene enrichment process with illustration?
22. Explain the magmatic ore forming processes with neat sketches and examples from India.

**(1 x 10 = 10 Marks)**

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FAROOK COLLEGE (AUTONOMOUS), KOZHIKODE

Sixth Semester Integrated M.Sc. Geology Degree Examination, April 2023

GL06IB10 – PALAEOLOGY

(2020 Admission onwards)

Time: 2 hours

Max. Marks : 60

*(Draw neat sketches, wherever necessary)*

**PART – A**

**Answer all questions.**

**Each question carries Two marks.**

**Ceiling -20 Marks**

1. What is lophophore?
2. Define rhabdosome. Write about different types of rhabdosomes.
3. Write about the shapes of the corallites.
4. Define the following  
(i) *Sphaerocone* (ii) *Cadicone* (iii) *Oxycone* (iv) *Platycone*.
5. What is meant by carapace?
6. Briefly explain the characteristics of vertebrates.
7. What do you mean by *protosepta* and *metasepta*?
8. Write about cheeks of trilobites.
9. What is permineralisation and carbonization?
10. Define deltidium, Foramen and pseudo deltidium?
11. Write about test of Foraminifera.
12. What is meant by Conispiral, Involute, Advolute, and Planispiral types of coiling?



**PART - B**  
**Answer all questions.**  
**Each question carries Five marks.**  
**Ceiling -30 Marks**

13. Write a brief descriptive note on outline of life through ages, its evolution and distribution.
14. Give an account on dentition pattern of Lamellibranchia
15. Explain the classification of class Graptozoa
16. Write short note on the following:  
(i) Glossopteris (ii) Ptilophyllum (iii) Sigillaria (iv) Calamites
17. Distinguish brachiopods and pelecypods
18. Write about subclass Dibranchia and its classification.
19. Explain the uses of fossils.

**PART - C**  
**Answer anyone question.**  
**Each question carries Ten marks.**

20. Write about Phylum Echinodermata. Give a detailed account on the morphology, classification and geological history of Class Echinoidea
21. Explain the general morphology, classification and geological history of Class Gastropoda.

**1 x 10 = 10 Marks**

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FAROOK COLLEGE (AUTONOMOUS), KOZHIKODE

Sixth Semester Integrated M.Sc. Geology Degree Examination, April 2023

GL06IB11 - STRATIGRAPHY AND INDIAN GEOLOGY

(2020 Admission onwards)

Time: 2 hours

Max. Marks : 60

*(Draw neat sketches, wherever necessary)*

**PART – A**

**Answer all questions.**

**Each question carries Two marks.**

**Ceiling -20 Marks**

1. How disconformity is formed and how it is differ from nonconformity?
2. How correlation of strata helps in stratigraphy?
3. What is diastem and hiatus?
4. Write down the names of Upper and Lower Purana groups of North India and South India.
5. How Taxon range Biozone is differ from Interval zone.
6. Describe Walther's Law.
7. Write about the structure, shape, size and extension of cuddappah succession.
8. What is flysch and molasses?
9. Write about the depositional environment of Aravalli succession.
10. Write a short note on Karewa Formation.
11. Briefly describe about Sausar Group.
12. Draw an Indian map showing Proterozoic sedimentary basins.

**PART – B**  
**Answer *all* questions.**  
**Each question carries Five marks.**  
**Ceiling -30 Marks**

13. Write a short note about principles of stratigraphy.
14. Discuss the stratigraphy of Siwaliks and fossils present in it.
15. Describe the stratigraphy, lithology, depositional environment and economic importance of Dharwar Craton.
16. Give a detailed note on Jurassic of Kutch.
17. Write about the tertiary rocks of Assam.
18. Discuss Singhbhum Craton in detail.
19. Briefly describe Delhi and Vindhyan Super group.

**PART - C**  
**Answer *anyone* question.**  
**Each question carries Ten marks.**

20. Describe the geology of Kerala.
21. Give a detailed account on Gondwana succession and Deccan trap.

**1 x 10 = 10 Marks**