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Reg. No:.....

Name:

FAROOK COLLEGE (AUTONOMOUS), KOZHIKODE

Sixth Semester Integrated M.Sc Geology Degree Examination, April 2024

GLO6IB11- 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 angular unconformity is differ from disconformity?
2. How lithostratigraphic correlation is used in geology?
3. Write about Karewa formation.
4. Give a brief summary about Geological timescale.
5. How taxon range zone differ from assemblage zone.
6. Write a short note on tertiary rocks of Assam.
7. What do you meant by a Formation and Group?
8. What is molasses?
9. Write down the economic importance of Sausar Group.
10. Differentiate intratrappean beds and intertrappean beds.
11. Write short note on cuddappah succession.
12. Name down the formations found in Gondwana succession.

PART – B

Answer *all* questions.

Each question carries Five marks.

Ceiling -30 Marks

13. Explain various principles of stratigraphy.
14. Discuss different correlation methods that used in stratigraphy.
15. What is facies? Explain Walther's Law.
16. Briefly discuss stratigraphy, lithology, depositional environment and economic importance of Vindhyan Supergroup.
17. Give a detailed note on Dharwar Supergroup.
18. Describe stratigraphic units of Delhi Supergroup.
19. Briefly describe the geological settings of Kutch focussing Jurassic age and its distribution of fossil assemblages.

PART - C

Answer any *one* question.

Each question carries Ten marks.

20. Briefly describe Siwalik Supergroup and major fossil assemblages.
21. Describe all stratigraphic units of Kerala in detail.

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GLO6IB10 – PALAEONTOLOGY

(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. Define Petrification.
2. How do gymnosperms differ from angiosperms?
3. What are molds and casts?
4. Type of symmetry is exhibited by Echinodermata during their larva and adult stage?
5. Distinguish isomyaria and anisomyaria.
6. How do glossopteris differ from gangamopteris?
7. Give the taxonomic order of animals according to hierarchy.
8. How the Foraminifera differ from other protozoans?
9. Write about the shapes of corallites with neat sketches.
10. What is *uniseriate*, *biserial* and *tetraserial* rhabdosome
11. Define deltidium, Foramen and pseudo-deltidium?
12. What is byssus? How it helps the animal?

PART – B

Answer *all* questions.

Each question carries **Five** marks.

Ceiling -30 Marks

13. Briefly explain the morphological features of Coelenterata
14. Give a note on Evolutionary trends of Graptozoa
15. Give an explanatory note on Siwalik fauna.
16. Explain the types of Dentition in Lamellibranchia
17. Write about the chamber development and shapes of Foraminifera
18. Give a short note on Uses of fossils.
19. Explain the different types of Gastropod shells with neat sketches.

PART - C

Answer any *one* question.

Each question carries **Ten** marks.

20. Give an account on Phylum Mollusca. Write an essay on morphology, classification and geological history of Class Cephalopoda.
21. What are the major classes within the phylum Echinodermata, and how they differ?

1 x 10 = 10 Marks

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Sixth Semester Integrated M.Sc Geology Degree Examination, April 2024

GLO6IB09 - 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. Define critical minerals? Give examples?
2. Brief the process of sublimation and give an example of Indian sublimation deposit?
3. What is Greisenisation process?
4. What are abrasive minerals? Give two examples?
5. Distinguish between syngenetic and epigenetic minerals?
6. What are the difference between ore shoot and bonanza?
7. What are the factors required for the concentration of residual deposits?
8. Brief the origin of graphite by metamorphic process?
9. What are skarn deposits?
10. Give name, composition and uses of any four Iron ore minerals?
11. What are the differences between hypothermal and epithermal deposits?
12. What are the important mineral deposits formed by weathering processes?

PART – B

Answer *all* questions.

Each question carries **Five** marks.

Ceiling -30 Marks

13. What are the different proximate analyses used to classify coal deposits?
14. Briefly explain magmatic processes of ore formation?
15. What are geological thermometers? Explain any two methods used for the preparation of geological thermometry?
16. Explain the geochemical distribution of elements and their application?
17. Define metallogenic epoch and provinces? Explain different Indian metallogenic epochs?
18. Explain hydrothermal cavity filling mineral deposits with neat sketches?
19. What are the important radioactive minerals, their composition, occurrences and uses?

PART - C

Answer *any one* questions.

Each question carries **Ten** marks.

20. Describe the process of oxidation and supergene sulphide enrichment?
21. Explain the following:
 - (a) Composition of crude oil
 - (b) Different types of rocks associated with oil formation
 - (c) Types of oil traps
 - (d) Theories of origin of oil deposit and (e). Important petroliferous basins of India
