

DO NOT OPEN THIS TEST BOOKLET UNTIL YOU ARE ASKED TO DO SO

Subject Code :

1 7

Test Booklet No. : 00463

## TEST BOOKLET

### GEOLOGY

Time Allowed : 2 (Two) Hours

Full Marks : 200

#### INSTRUCTIONS

1. The name of the Subject, Roll Number as mentioned in the Admission Certificate, Test Booklet No. and Subject Code shall be written legibly and correctly in the space provided on the Answer Sheet with black ball pen.
2. **Space provided for Series in the Answer Sheet is not applicable for Optional Subject. So the space shall be left blank.**
3. All questions carry equal marks. Your total marks will depend only on the number of correct responses marked by you in the Answer Sheet.
4. No candidate shall be admitted to the Examination Hall/Room 20 minutes after commencement of distribution of the paper. The Supervisor of the Examination Hall/Room will be the time-keeper and his/her decision in this regard is final.
5. No candidate shall leave the Examination Hall/Room without prior permission of the Supervisor/Invigilator. No candidate shall be permitted to hand over his/her Answer Sheet and leave the Examination Hall/Room before expiry of the full time allotted for each paper.
6. No Mobile Phone, Pager, etc., are allowed to be carried inside the Examination Hall/Room by the candidates. Any Mobile Phone, Pager, etc., found in possession of the candidate inside the Examination Hall/Room, even if on off mode, shall be liable for confiscation.
7. No candidate shall have in his/her possession inside the Examination Hall/Room any book, notebook or loose paper, except his/her Admission Certificate and other connected paper permitted by the Commission.
8. Complete silence must be observed in the Examination Hall/Room. No candidate shall copy from the paper of any other candidate, or permit his/her own paper to be copied, or give, or attempt to give, or obtain, or attempt to obtain irregular assistance of any kind.
9. After you have completed filling in all your responses on the Answer Sheet and the Examination has concluded, you should hand over to the Invigilator *only the Answer Sheet*. You are permitted to take away with you the Test Booklet.
10. Violation of any of the above Rules will render the candidate liable to expulsion from the Examination Hall/Room and disqualification from the Examination, and according to the nature and gravity of his/her offence, he/she may be debarred from future Examinations and Interviews conducted by the Commission for appointment to Government Service.
11. Smoking inside the Examination Hall/Room is strictly prohibited.
12. **This Test Booklet contains one sheet (two pages) for Rough Work at the end.**

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[ No. of Questions : 100 ]

SEAL

1. The term 'lithosphere' includes the crust and the upper part of the mantle up to a depth of
- (A) 250 kilometres  
(B) 150 kilometres  
(C) 400 kilometres  
(D) 675 kilometres
2. In the solar system, which of the following planets possesses the least density?
- (A) Mercury  
(B) Mars  
(C) Jupiter  
(D) Saturn
3. Exfoliation occurs due to
- (A) running water  
(B) glaciers  
(C) fluctuation in temperature  
(D) strong winds
4. The diameter of the earth is about
- (A) 7400 kilometres  
(B) 13800 kilometres  
(C) 12800 kilometres  
(D) 21300 kilometres
5. The element that makes up about 50% of the earth's crust is
- (A) silicon  
(B) iron  
(C) oxygen  
(D) aluminium
6. Which one of the following is fissure eruption type?
- (A) Vulcanian type  
(B) Icelandic type  
(C) Bandaisan type  
(D) Vesuvian type
7. Flat topped sea mounts are known as
- (A) mesa  
(B) guyot  
(C) inselberg  
(D) monadnock
8. Siliceous deposits formed around geysers are
- (A) cinders  
(B) geyserites  
(C) scoriae  
(D) pumice

9. Find the odd one out of the following :

- (A) Frost heaving
- (B) Oxidation
- (C) Hydration
- (D) Solution

10. The Himalayas rose from the primeval sea of

- (A) Atlantic
- (B) Tethys
- (C) Caspian
- (D) Arabian

11. The dip of any bed is considered as

- (A) a vector quantity
- (B) a scalar quantity
- (C) both vector and scalar quantities
- (D) a quantity whose unit is not known

12. Which one of the following is an example of a structure having quaquaversal dip?

- (A) Plateau
- (B) Dome
- (C) Basin
- (D) Horst

13. The shortening of bed takes place in case of

- (A) reverse fault
- (B) normal fault
- (C) wrench fault
- (D) strike slip fault

14. The normal fault having very low-angle dip is called

- (A) detachment fault
- (B) gravity fault
- (C) wrench fault
- (D) pivot fault

15. In NE India, Main Boundary Fault is present in

- (A) Manipur
- (B) Nagaland
- (C) Meghalaya
- (D) Arunachal Pradesh

16. If igneous rocks are unconformably overlain by younger sedimentary rocks, the resulting unconformity is known as
- (A) disconformity
  - (B) non-conformity
  - (C) angular unconformity
  - (D) offlap
17. A limited area of older rocks surrounded by younger rocks is called
- (A) outlier
  - (B) overlap
  - (C) inlier
  - (D) offlap
18. Very closely spaced joints in rocks is known as
- (A) fracture cleavage
  - (B) shear cleavage
  - (C) strain-slip cleavage
  - (D) crenulation cleavage
19. When stream valleys are guided by folds and are parallel to the trend of fold axes, the pattern of drainage is called
- (A) dendritic
  - (B) radial
  - (C) trellis
  - (D) annular
20. In an asymmetrical fold, the axis
- (A) coincides with the crest of an anticline
  - (B) coincides with the trough of the syncline
  - (C) does not coincide with the crest of an anticline
  - (D) coincides with both the trough and the crest of an anticline
21. Which one of the following is not a microfossil?
- (A) Radiolaria
  - (B) Diatom
  - (C) Cypraea
  - (D) Coccolithophore
22. A well-known gastropod shell having sinistral coiling is
- (A) Oliva
  - (B) Physa
  - (C) Nerita
  - (D) Conus
23. Pedicle opening is present in
- (A) cephalopod shell
  - (B) brachiopod shell
  - (C) gastropod shell
  - (D) bivalved shell

