

BRACKT'S
Vishwakarma Institute of Information Technology, Pune

M.E (STRUCTURES)-SEM I

Subject: Elective I (Soil structure Interaction, Cyber Security and Foreign Language-I)

Max marks: 50.

Date:

Note:

Solve Section A, Section B and Section C on separate answer books

Solve all questions from Q.1 to Q.6

Solve any five questions from Q.7 to Q.14

Q.15, Q.16 and Q.17 are compulsory.

SECTION A

- Q.1 Explain the effect of structure roughness on soil behavior? 4 marks
- OR**
- Q.1 Explain the SSI problem for shallow foundation? 4 marks
- Q.2 Explain Winkler model with proper example? 4 marks
- OR**
- Q.2 Explain Multiple Parameter Model? 4 marks
- Q.3 Explain Arching Effect in soil? 4 marks
- Q.4 Explain the earth pressure distribution in sheet piles? 4 marks
- Q.5 Enlist the Dynamic properties of soil considered in SSI problem? 2 marks
- Q.6 Explain the Modified Ramberg Osgood Model? 2 marks

SECTION B

- Q.7. Write a short note on Computer Forensic. 4 marks
- Q.8 Explain Digital Signature and Digital Certificates. 4 marks
- Q.9 What is a Trojan? Give an example of real-world banking Trojan. 4 marks
- Q.10 What is security? Why do we need security? 4 marks
- Q.11 Write a short note on disaster recovery. 4 marks
- Q.12 Explain various types of Payment Systems. 4 marks
- Q.13 Explain with the help of diagram steps in Secure Socket Layer (SSL). 4 marks
- Q.14 Write a short note on reasons for a Forensic Analysis. 4 marks

SECTION C

- Q.15 Répondez aux questions : 5 marks
- a. Comment tu t'appelles ?
- b. Quel sport aimez-vous ?
- c. Quelles langues parlez-vous ?
- d. Vous avez quel âge ?
- e. Où habitez-vous ?
- Q.16. Quelle heure est-il ? 3 marks
- a. 3h30 -
- b. 1h00-
- c. 22h45-
- Q.17. Traduisez en français : 2 marks
- a. We like to watch french films.
- b. I do not have a book.