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Reg. No. :

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Question Paper Code: 55U18

Ph.D COURSE WORK EXAMINATION, MAY 2018

Elective

Course work

15PSE518– ADVANCED CONSTRUCTION TECHNOLOGY

(Regulation 2015)

Duration: Three hours

Maximum: 100 Marks

Answer ALL Questions

PART A - (5 x 1 = 5 Marks)

1. The load of the structure distributed by the foundation is _____ CO1- R
(a) uniform (b) non uniform (c) concentrated (d) all the above
2. _____ is mainly used for grading purpose. CO2- R
(a) dozer (b) tractor (c) scraper (d) dis ridges
3. A _____ is used to level the ground and spread the loose material. CO3- R
(a) spade (b) scraper (c) grader (d) all the above
4. _____ is the term for the control of ground water by pumping. CO4- R
(a) grouting (b) dewatering (c) both a and b (d) none of these
5. Mass concrete underpinning method is also known as _____ CO5- R
(a) Pit method (b) mini piled method (c) pile method (d) vibro flotation

PART – B (5 x 3= 15Marks)

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|-----|---|--------|
| 6. | What do you mean by sheeting of shallow excavation? | CO1- R |
| 7. | What are the types of bridges? | CO2- R |
| 8. | Explain trenches. | CO3- R |
| 9. | Explain hoist and its types. | CO4- R |
| 10. | What is shoring? What are its types? | CO5- R |

PART – C (5 x 16= 80Marks)

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|-----|---|--------|------|
| 11. | (a) Differentiate prestressing and precasting. Develop an idea on equipments usage for the above types of foundation. | CO1-U | (16) |
| | Or | | |
| | (b) Explain the construction procedure for caissons. | CO1- U | (16) |
| 12. | (a) Explain in detail the various methods employed in laying roads. | CO2- U | (16) |
| | Or | | |
| | (b) Explain the construction techniques of bridges. | CO2- U | (16) |
| 13. | (a) Explain in detail about the various excavating equipments. | CO3- U | (16) |
| | Or | | |
| | (b) Describe briefly the various noise equipments with neat sketches. | CO3- U | (16) |
| 14. | (a) Explain the different types of conveyors. | CO4- U | (16) |
| | Or | | |
| | (b) Explain the methods of ground water control. | CO4- U | (16) |
| 15. | (a) Explain the different types of shoring system in detail. | CO5- U | (16) |
| | Or | | |
| | (b) Explain briefly about the selection of equipment for construction practice. | CO5- U | (16) |