Total No. of Questions : 5]

SEAT No. :

PE-1518

[Total No. of Pages : 2

[6502]-508
T.Y. B.Sc.
COMPUTER SCIENCE
CS-3511 : Blockchain Technology
(2019 Revised) (Semester - V) (CBCS)

Time : 2 Hours] *[Max. Marks : 35*

Instructions to the candidates:

1) ***All questions are compulsory.***
2) ***Figures to the right indicate full marks.***
3) ***Neat diagrams must be drawn wherever necessary.***

Q1) **Attempt any Eight of the following :** **[8 × 1 = 8]**

a) Why is Blockchain a trustworthy approach?

b) What is a smart contract?

c) What is DApp?

d) What is Hybrid Blockchain?

e) Define EVM.

f) Define Database.

g) Define PoW.

h) What is hard fork?

i) What is the formula to calculate transaction fee in Ethereum?

j) What is Block?

Q2) **Attempt any four of the following :** **[4 × 2 = 8]**

a) What is Blockchain? Explain its importance.

b) Write short notes on Ether and Gas.

c) List different types of networks in blockchain.

d) With the help of diagram describe the process of SHA-256.

e) Explain the working of mining.

P.T.O.

SPPUQuestionPapers.com

Q3) **Attempt any TWO of the following :** **[2 × 4 = 8]**

a) What are the advantages of smart contracts?

b) Describe the consensus mechanism in detail.

c) Explain the structure of blocks in Blockchain.

Q4) **Attempt any Two of the following.** **[2 × 4 = 8]**

a) Which are the different value data types in solidity?

b) What is the fork? Explain soft and hard forking with diagram.

c) Describe EVM with the help of a neat diagram.

Q5) **Attempt any One of the following.** **[1 × 3 = 3]**

a) Differentiate between blockchain and database.

b) Explain Digital Signature with its working principle.

❖❖❖

SPPUQuestionPapers.com