PSG COLLEGE OF ARTS & SCIENCE (AUTONOMOUS)

MSc DEGREE EXAMINATION MAY 2019

(Second Semester)

Branch - COMPUTER SCIENCE

SOCIAL NETWORK ANALYTICS

Time:	Three Hours	Maximum: 75 Marks
	Answer A	-A (10 Marks) LL questions carry EQUAL marks (10 x 1 = 10)
1		that are associated in such a way that they chines instead of human operators. (ii) Semantic (iv) Technological
2	The expansion of RDF is (i) Random description flame (iii) Resource description flame	(ii) Random description frame(iv) Resource description frame
3	is a tool for developing (i) DIME (iii) CIME	ontology. (ii) DOME (iv) CEON
4	is a mobile app that allow photos and videos. (i) Twitter (iii) Instagram	vs users to send and receive self destructing (ii) Linked In (iv) Snap chat
5	Component size is counted by the (i) Nodes (iii) Weights	number of connected in the graph (ii) Edges (iv) Paths
6	The other name for clustering is _ (i) Closeness (iii) Centrality	(ii) Community (iv) Path length
7	The principle for Matlink is to au with links on its (i) Graph (iii) Borders	gement a standard matrix representation (ii) Edges (iv) Nodes
8	The principle of node link diagrametwork by node and connection (i) Messages (iii) Actors	m is to graphically represent of the by links. (ii) Social media (iv) Nodes
9	algorithm is most come (iii) KP (iii) KL	nonly used in all data analytical tools. (ii) LN (iv) GM
10	evaluation is graph bas (i) Ontology (iii) Closeness	ed and interaction based. (ii) Hybrid (iv) Trust

Cont...

SECTION - B (25 Marks)

Answer **ALL** questions

ALL questions carry EQUAL Marks

 $(5 \times 5 = 25)$

11 a Describe the limitations of the current web.

 $\cap R$

- b What are the various recent developments in social network analysis?
- 12 a Describe web based networks as an electronic source.

 $\cap R$

- b Describe ontology based knowledge representation.
- 13 a Explain any two methods for community detection.

 $\cap R$

- b What are the challenges faced by DOSNs?
- 14 a Brief about the role of user data management in predicting human behaviour.

OR

- b How to manage the trust for social network in an online environment?
- 15 a Explain the role of clustering coefficient in exploring the grouping effects.

OR

b Explain the various applications of social network analytics.

SECTION -C (40 Marks)

Answer **ALL** questions

ALL questions carry EQUAL Marks

 $(5 \times 8 = 40)$

16 a Explain the emergence of social web. Differentiate web 2.0 from web 3.0.

OR

- b Explain the key concepts and measures in network analysis.
- 17 a Elucidate aggregating and reasoning with social network data.

OR

- b Compare ER model from relationship model.
- 18 a Exemplify the process of evaluating communities.

OR

- b Explain the tools for detecting communities.
- 19 a Exemplify how technology helps to enable new experience among the social communities.

OR.

- b How trust transitivity analysis helps in improving trust and belief among the customers?
- 20 a Exemplify node-edge diagrams for visualization of social networks.

OR

b Explain the two types of visualizing social networks with matrix based representation.