

**PSG COLLEGE OF ARTS & SCIENCE
(AUTONOMOUS)**

**BSc DEGREE EXAMINATION DECEMBER 2018
(First Semester)**

Branch - **INFORMATION TECHNOLOGY**

FUNDAMENTALS OF INFORMATION TECHNOLOGY

Time: Three Hours

Maximum: 75 Marks

SECTION-A (10 Marks!)

Answer **ALL** questions

ALL questions carry **EQUAL** marks (10 x 1 = 10)

1 _____ refers to sets of electronic instructions that tell the hardware what to do.

- | | |
|--------------|---------------|
| (i) Hardware | (ii) Software |
| (iii) Data | (iv) Users |

Monitors can be classified based on their color capabilities as _____

- | | |
|---------------|-------------------|
| (i) Speed | (ii) Pixels |
| (iii) Storage | (iv) Instructions |

_____ uses a computer to create, edit, and print documents.

- | | |
|----------------------|-----------------|
| (i) Spread sheet | (ii) Database |
| (iii) Word processor | (iv) Powerpoint |

_____ is a computer network that spans a relatively large geographical area.

- | | |
|-----------|----------|
| (i) LAN | (ii) VAN |
| (iii) MAN | (iv) WAN |

_____ lets you communicate with people from all over the world in real time.

- | | |
|-------------------|---------------|
| (i) Internet chat | (ii) Messages |
| (iii) Intranet | (iv) Network |

_____ is a gateway with a lock.

- | | |
|----------------|---------------|
| (i) Software | (ii) Hardware |
| (iii) Firewall | (iv) Firmware |

The components of _____ are computers, networks, information and people,

- | | |
|----------------|---------------|
| (i) E-Commerce | (ii) Intranet |
| (iii) Internet | (iv) Network |

GPS stands for

- | | |
|------------------------------------|--------------------------------|
| (i) Graphical position system | (ii) Global positioning system |
| (iii) Geographical position system | (iv) None of the above |

Who is the father of AI?

- | | |
|--------------------|--------------------|
| (i) Fisher Ada | (ii) John Mccanthy |
| (iii) Allen Newell | (iv) Alan Yuring |

10 One of the main challenges of natural language processing is

- | | |
|-------------------------------------|----------------------------|
| (i) Handling ambiguity of sentences | (ii) Handling tokenization |
| (iii) Handling pos-tagging | (iv) All of the above |

Cont...

SECTION - B (25 Marks)

Answer **ALL** questions
ALL questions carry **EQUAL** Marks (5 x 5 = 25)

11 a Write the application of computers.

OR

b Explain about storage devices

12 a Explain client / server network.

OR

b What are the various types of network? Explain.

13 a Explain web browsers.

OR

b Explain about search engines.

14 a What are the applications of E-commerce?

OR

b Explain about role of IT.

15 a Write the characteristics of expert system.

OR

b Explain about fuzzy logic.

SECTION -C (40 Marks)

Answer **ALL** questions
ALL questions carry **EQUAL** Marks (5 x 8 = 40)

16 a Discuss generation of computers.

OR

b Discuss about input devices in detail.

17 a Elucidate network topology.

OR

b Discuss peer-to-peer network.

18 a Discuss about E-mail in detail.

OR

b Write the evolution of internet.

*

19 a Write the components of IT.

OR

b Discuss about mobile communication.

20 a Write benefits and application of neural networks.

OR

b Discuss (i) Uses of NLP (ii) Applications of expert system (5+5)