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SEAT No. :

PE-12249

[Total No. of Pages : 2

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P.G.D.C.M.

**101: ADVANCED OFFICE AUTOMATION AND
PROGRAMMING CONCEPTS
(2022 Pattern) (Semester - I)**

Time : 2½ Hours]

[Max. Marks : 50

Instructions to the candidates:

- 1) *Solve Any 5 questions.*
- 2) *Figures to the right indicate full marks.*

Q1) Draw and Explain the block diagram of Computer. Describe the role of ALU, CU and Memory with data flow. **[10]**

Q2) Convert **[10]**

- a) Binary 101101 to decimal and hexadecimal
- b) Hexadecimal 2F to binary

Q3) Classify hardware into input, output, storage and processing devices with examples each and differentiate from software. **[10]**

Q4) Explain Five Key functions of Windows OS. How does it handle process management and Multitasking? **[10]**

Q5) Compare LAN, WAN and MAN with example, explain with advantages and disadvantages. **[10]**

Q6) In MS Word, explain formatting paragraphs (alignment, spacing, borders) and sections. **[10]**

P.T.O.

Q7) Write short note any 2 of the following.

[10]

- a) ASCII Vs Unicode
- b) Compilers and Interpreters
- c) Network Topologies
- d) Firewall and Cookies



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SEAT No. :

PE-12250

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P.G.D.C.M.

**102 : INTRODUCTION TO WEB TECHNOLOGY
(E-Commerce, HTML, CSS, CMS)
(2022 Pattern) (Semester - I)**

Time : 2½ Hours]

[Max. Marks : 50

Instructions to the candidates:

- 1) Solve any five questions.*
- 2) Figures to the right indicates full marks.*

Q1) Explain Internet Communication and Search Engines. **[10]**

Q2) Explain Web Hosting and the process of obtaining a Digital Certificate. **[10]**

Q3) Explain HTML Images, Image Maps, Audio and Video tags with example. **[10]**

Q4) Explain HTML5 features including: New HTML5 tags, Responsive design, HTML5 canvas. **[10]**

Q5) Explain CSS Selectors, CSS Links and CSS Tables. **[10]**

Q6) Explain the following (Any Two) : **[10]**

- a) Lists
- b) Frameset
- c) CSS Backgrounds



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P.G.D.C.M.

**103 : ADVANCED TRENDS IN INFORMATION
TECHNOLOGY
(2022 Pattern) (Semester - I)**

Time : 2½ Hours]

[Max. Marks : 50

Instructions to the candidates:

- 1) *Solve any five questions.*
- 2) *Figures to the right indicates full marks.*

Q1) What is Cloud Computing? Explain Cloud computing models IaaS, PaaS, and SaaS with suitable examples. **[10]**

Q2) Explain wearable devices and smart gadgets with real-life examples. **[10]**

Q3) Explain the role of Artificial Intelligence in daily life. Discuss any five real-life applications of AI. **[10]**

Q4) Explain the different categories of Machine Learning. **[10]**

Q5) Define Virtual reality? Also write its applications. **[10]**

Q6) Explain the advantages and disadvantages of cryptocurrency. **[10]**

Q7) Short Note (Any two) : **[10]**

- a) Geo Information System [GIS]
- b) Applications of Cloud Computing
- c) Natural Language Processing [NLP]
- d) Limitations of AI

