

Hall Ticket Number

Code : 1G471

R-11

IV B.Tech. I Semester Regular & Supplementary Examinations Nov/Dec 2015

Multimedia and Application Development

(Information Technology)

Max. Marks: 70

Time: 03 Hours

Answer *any five* questions

All Questions carry equal marks (14 Marks each)

1. a) Explain in detail about:
(i) Video Editing
(ii) Multimedia Authoring 6M
b) Briefly explain file formats of GIF, JPEG. 8M
2. a) Define and explain in detail about MIDI. 14M
3. a) Write different Action Script features. 7M
b) What is type checking? Give suitable example in action script. 7M
4. Define exception? Differentiate with compile time errors and also give one example. 14M
5. Explain in detail about Components with Action Script Movie Clip Subclasses. 14M
6. a) Write about Image compression Standards:
(i) The JPEG
(ii) The JPEG2000 Standard 6M
b) Explain Set Partitioning In Hierarchical Trees (SPIHT). 8M
7. a) Describe Any two Basic Audio Compression Techniques 6M
b) Explain briefly about:
(i) Hybrid Excitation Vocoders
(ii) Multiband Excitation Linear Predictive (MELP) 8M
8. Explain in detail about Digital Wireless Networks. 14M

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IV B.Tech. I Semester Regular & Supplementary Examinations Nov/Dec 2015

Cryptography and Network Security

(Information Technology)

Max. Marks: 70

Time: 03 Hours

Answer *any five* questions

All Questions carry equal marks (14 Marks each)

1. a) Define Security attack? Explain Security Services with examples 7 M
b) Differentiate TCP session hijacking and UDP hijacking 7 M
2. a) List conventional Encryption algorithms with examples 7 M
b) Demonstrate Secure Hash Functions 7 M
3. a) Illustrate Diffie-hellman key exchange scheme with example. 7 M
b) Demonstrate X.509 Directory Authentication Service. 7 M
4. a) Discriminate PGP message generation and message reception. 7 M
b) Explain Pretty Good Privacy (PGP) certificate processing. 7 M
5. a) Write in detail about Combining Security Associations 7 M
b) Sketch IP Security Architecture 7 M
6. a) Distinguish between SSL vs. TLS 7 M
b) Mention Web Security Requirements 7 M
7. a) Describe SNMP Architecture. 7 M
b) Distinguish between SNMP, SNMPV1 7 M
8. a) Explain Intrusion Detection Systems with examples 7 M
b) Give Examples of Trusted Systems. 7 M

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IV B.Tech. I Semester Regular & Supplementary Examinations Nov/Dec 2015

Mobile Communications

(Common to CSE & IT)

Max. Marks: 70

Time: 03 Hours

Answer any five questions

All Questions carry equal marks (14 Marks each)

1. a) Explain how the various location dependent services can be offered using mobile communication. 7M
b) What kind of security and new data services are available in GSM? 7M
2. a) Explain Time Division Multiplexing with neat diagrams 7M
b) What is Code Division Multiplexing and explain how the multiplexing is incorporated in it. 7M
3. a) Explain how Dynamic Host Configuration Protocol is working. 7M
b) Describe how the packet delivery is happening in a mobile network. 7M
4. a) What is snooping TCP? What are its advantages and disadvantages? 7M
b) Explain Indirect TCP along with its pros and cons. 7M
5. a) Explain any 2 protocols that are frequently used in MANET. 7M
b) List the various difficulties faced while routing packets in MANET 7M
6. a) Explain the structure of the Bluetooth packet format in detail 7M
b) What is J2ME? How is it different from J2SE? 7M
7. a) Write a note on transactional models. 7M
b) Narrate the various quality of service issues faced in databases. 7M
8. a) Explain some of the widely used indexing mechanisms 7M
b) Elaborate how push and pull based mechanisms are working 7M

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Code : 1G177

IV B.Tech. I Semester Regular & Supplementary Examinations Nov/Dec 2015

Network Programming

(Information Technology)

Max. Marks: 70

Time: 03 Hours

Answer *any five* questions

All Questions carry equal marks (14 Marks each)

1. a) Write a note on TCP port number and concurrent server. 8M
b) Discuss in detail about Standard internet services. 6M
2. a) Get in detail about byte ordering and manipulation functions. 7M
b) Describe in detail about close function, getsocketname, getpeername functions. 7M
3. a) Explain in detail about terminate and POSIX signal handling functions. 7M
b) Write about TCP output and server process termination. 7M
4. a) Get in detail about getsockopt and setsockopt. 7M
b) What is TCP socket and write about TCP socket options. 7M
5. a) Write about lack of flow control with UDP. 7M
b) Discuss in detail about UDP Echo client-server program. 7M
6. a) Explain the purpose of using function and IPV6 support. 7M
b) Discuss about gethostbyname function. 7M
7. a) Explain about pipes and FIFO streams and messages. 8M
b) Write about IPC and message queues. 6M
8. a) Explain about Pseudo terminals. 7M
b) Get in detail about Terminal modes. 7M

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IV B.Tech. I Semester Regular & Supplementary Examinations Nov/Dec 2015

Soft Computing
(*Information Technology*)

Max. Marks: 70

Time: 03 Hours

Answer *any five* questions

All Questions carry equal marks (14 Marks each)

1. Classify problems in AI domain and explain on Generate and Test heuristic in detail 14M
2. Demonstrate application of the following with an example each
 - a. Constraint Satisfaction
 - b. Means End Analysis 14M
3. Explain in detail on a given pattern matching algorithm in detail 14M
4. What is Hamming Network? Explain the scenarios for usage of supervised learning network and unsupervised learning network in general 14M
5. a) Explain with examples on the differences between Fuzzy vs Crisp set 7M
b) List down the Fuzzy-set operations 7M
6. Illustrate the following steps with examples
 - a. Fuzzification
 - b. Defuzzification
 - c. Membership functions 14M
7. Discuss fuzzy business decision making in detail 14M
8. Explain in brief on Internet search technique in detail 7M
Explain in detail on Traveling Salesman Problem with its solution approach 7M

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IV B.Tech. I Semester Regular & Supplementary Examinations Nov/Dec 2015

Software Process and Project Management

(*Information Technology*)

Max. Marks: 70

Time: 03 Hours

Answer *any five* questions

All Questions carry equal marks (14 Marks each)

1. Explain the basic Framework described in the Waterfall Model along with five necessary improvements in that approach. 14M
2. a) Identify three levels of process and their attribute in improving software Economics 7M
b) Classify the important Trends in improving Software Economics along with Cost model parameters 7M
3. a) Summaries principles of Conventional Software Engineering 10M
b) Explain top five Principles of Modern Software management 4M
4. a) Differentiate the two stages of Life cycle in Engineering stage emphasis and Production stage emphasis 4M
b) Illustrate the typical Software development plan outline 10M
5. a) Discuss the seven top-level Workflows in the Lifecycle 7M
b) Summaries the artifacts of the design set in Model based architecture , including the architecture view & architecture description 7M
6. a) Describe the evaluation of planning fidelity in the WBS overs the life cycle. 4M
b) Explain Cost and Schedule estimation Process in Planning. 10M
7. a) Explain about Software architecture team activities and Software assessment team activates 10M
b) What is the need for metrics and their purpose and perspectives 4M
8. a) Summaries default project organization & maps project-level roles and responsibilities 7M
b) Compare and construct schedule discrimination for Small scale project versus large scale project 7M
