

7. Write in detail about ancient education centre, Taxshila. 10

#### UNIT-IV

8. Describe the social, religious and economic conditions at the time of Turk invasion. 10

Or

9. Show six historical places on the map of ancient Punjab. Also add an explanatory note on any two places.

Lahore, Jalandhar, Taxshila, Uchcha, Bhathinda, Thanesar. 6 + 4 = 10

### COMPUTER SCIENCE

Paper : A02 Computer Fundamentals & C Programming

Time Allowed : 3 Hours

Maximum Marks : 65

Note : Attempt five questions in all, selecting one question each from Sections A, B, C and D. Section E is compulsory.

#### SECTION-A

- (a) What is Computer ? Discuss various applications of Computers. 7  
(b) Define Software. Draw the difference between System Software and Application Software. 6

2. (a) With help of diagrams, explain the working of compiler, assembler and interpreter. 7  
 (b) What do you mean by E-commerce? Describe various benefits of E-commerce. 6

### SECTION-B

3. (a) What is Operating system? Explain functions of Operating System. 7,6  
 (b) What do you mean by DOS? Explain any five commands of DOS. 7  
 4. (a) Describe the working of client server model. 6  
 (b) What is Computer Network? Compare and contrast LAN and WAN. 6

### SECTION-C

5. What do you mean by Problem Solving? Describe the difference between Decision table and Flow charts. Draw a flow chart to add three numbers. 13  
 6. What is Loop? Elaborate different types of loops in C with proper syntax. 13

### SECTION-D

7. (a) How functions can be declared and defined in C? 7  
 (b) Discuss the difference between call by value and call by reference. 6  
 8. (a) What is Array? Explain different types of arrays. 7  
 (b) Describe the use of in-built string functions. 6

### SECTION-E

(Compulsory Questions)

9. Write short notes on following with help of example/diagram if needed :  
 (a) goto statement 3  
 (b) Difference between Structure and union 2  
 (c) Nested loop 2  
 (d) Pseudo code 2  
 (e) Remote sensing 2  
 (f) Linux 2