THE UNIVERSITY OF CHENAB

Department of Computer Science
5th Semester Induction in BS Computer Science

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Programs Offered by the Department of Computer Science	
Degree Name	**Degree Details/Eligibility Criteria**
BS in Computer Science	**Program Eligibility:** Minimum 50% score (or marks) in FA/FSc/ICS /ICom/A-Level or an equivalent qualification. **Programme Duration:** 4 Years (8 semesters); 130-136 credit hours
BS in Software Engineering	**Program Eligibility:** Minimum 50% score (or marks) in FA/FSc/ICS /ICom/A-Level or an equivalent qualification. **Programme Duration:** 4 Years (8 semesters); 130-136 credit hours
BS in Data Science	**Program Eligibility:** Minimum 50% score (or marks) in FA/FSc/ICS /ICom/A-Level or an equivalent qualification. **Programme Duration:** 4 Years (8 semesters); 130-136 credit hours
ADP Computer Science	**Program Eligibility:** Minimum 50% score (or marks) in FA/FSc/ICS /ICom/A-Level or an equivalent qualification. **Programme Duration:** 2 Years (4 semesters);
5th Semester Induction	**Program Eligibility:** Minimum 2.0 CGPA or an equivalent qualification. **Programme Duration:** 2 Years(4semeser)
MS in Computer Science	**Program Eligibility:** Minimum 2.5 CGPA or an equivalent qualification. **Programme Duration:** 2 Years (4 semesters); 31 credit hours
MS in Software Engineering	**Program Eligibility:** Minimum 2.5 CGPA or an equivalent qualification. **Programme Duration:** 2 Years (4 semesters); 30 credit hours

Multiple Choice Questions

English (20 Questions)

1. Choose the correct synonym of the word **'Benevolent'**:
   A) Cruel
   B) Kind
   C) Lazy
   D) Angry

2. Which sentence is grammatically correct?
   A) She don't like apples.
   B) She doesn't like apples.
   C) She not like apples.
   D) She isn't like apples.

3. Pick the correct form: "He ___ playing football every weekend."
   A) is
   B) are
   C) was
   D) were

4. Choose the correct meaning of the idiom: "Break the ice."
   A) To cool down
   B) To start a conversation
   C) To break something
   D) To relax

5. Identify the part of speech of the underlined word: "He ran **quickly**."
   A) Noun
   B) Verb
   C) Adjective
   D) Adverb

6. Select the sentence with the correct punctuation:
   A) Where are you going?
   B) Where are you going?
   C) Where, are you going?
   D) Where are you going!

7. Which word means the opposite of **'Scarce'**?
   A) Rare
   B) Abundant
   C) Few
   D) Limited

8. Fill in the blank: "She has been working here ___ 2010."
A) since
B) for
C) from
D) at

9. Choose the sentence with correct subject-verb agreement:
A) The dogs runs fast.
B) The dog run fast.
C) The dogs run fast.
D) The dog runs fastly.

10. Which sentence uses the passive voice?
A) The teacher praised the student.
B) The student was praised by the teacher.
C) The teacher is praising the student.
D) The student praises the teacher.

11. Identify the error: "Everyone have finished their work."
A) Everyone
B) Have
C) Their
D) Work

12. Pick the correct comparative form:
A) This book is more better than that one.
B) This book is better than that one.
C) This book is gooder than that one.
D) This book is best than that one.

13. Which sentence is conditional?
A) If it rains, we will stay home.
B) It rains every day.
C) We stayed home yesterday.
D) We will go tomorrow.

14. Choose the correct phrasal verb: "He decided to ___ smoking."
A) give up
B) give in
C) give out
D) give away

15. Select the correct synonym for **'Diligent'**:
A) Lazy
B) Hardworking

C) Careless

D) Angry

16. Fill in the blank: "She ___ to the market yesterday."

A) goes

B) went

C) going

D) gone

17. Which sentence uses direct speech?

A) He said that he was tired.

B) He said, "I am tired."

C) He tells that he is tired.

D) He was telling that he is tired.

18. What is the meaning of the word **'Ambiguous'**?

A) Clear

B) Uncertain

C) Simple

D) Certain

19. Choose the correct word: "She is ___ best student in the class."

A) the

B) a

C) an

D) no article

20. Identify the tense: "They had finished the work before I arrived."

A) Present perfect

B) Past perfect

C) Future perfect

D) Present continuous

Analytical Reasoning (20 Questions)

1. All roses are flowers. Some flowers fade quickly. Can we conclude some roses fade quickly?

A) Yes

B) No

C) Cannot say

D) All roses fade quickly

2. Find the next number: 5, 10, 20, and 40?

A) 60

B) 70

C) 80

D) 100

3. If A is taller than B and B is taller than C, who is the shortest?
   A) A
   B) B
   C) C
   D) Cannot say

4. Which number does not belong? 3, 7, 11, 14, 19
   A) 3
   B) 7
   C) 11
   D) 14

5. If 3 pens cost Rs. 60, what is the cost of 5 pens?
   A) Rs. 80
   B) Rs. 100
   C) Rs. 90
   D) Rs. 70

6. Pointing to a woman, a man said, "She is the daughter of my father's only son." How is the woman related to the man?
   A) Sister
   B) Daughter
   C) Cousin
   D) Mother

7. Find the missing letter: A, C, E, G?
   A) H
   B) I
   C) J
   D) K

8. Which of the following is a prime number?
   A) 21
   B) 29
   C) 33
   D) 39

9. What comes next: 2, 4, 8, 16?
   A) 18
   B) 24
   C) 32
   D) 20

10. If the day after tomorrow is Thursday, what day was yesterday?
   A) Sunday
   B) Monday
   C) Tuesday
   D) Wednesday

11. How many edges does a cube have?
   A) 8
   B) 10
   C) 12
   D) 16

12. Which of these does not belong?
   A) Dog
   B) Cat
   C) Lion
   D) Car

13. Rearrange the letters "LEPA" to make a word.
   A) PALE
   B) LEAP
   C) PEAL
   D) All of the above

14. A clock shows 3:00. What is the angle between hour and minute hand?
   A) 90°
   B) 75°
   C) 60°
   D) 45°

15. Find the odd one:
   A) Square
   B) Rectangle
   C) Circle
   D) Triangle

16. Two trains start from the same point. One travels east at 60 km/h, the other north at 80 km/h. After 3 hours, how far apart are they?
   A) 180 km
   B) 200 km
   C) 240 km
   D) 300 km

17. Which word does not belong to Fruit?
   A) Apple

B) Banana
C) Carrot
D) Mango

18. Find the missing number: 15, 30, 45, ?, 75
   A) 50
   B) 55
   C) 60
   D) 65

19. If $4x + 5 = 21$, what is x?
   A) 2
   B) 3
   C) 4
   D) 5

20. A family has 3 daughters and 2 sons. What fraction of children are daughters?
   A) 2/5
   B) 3/5
   C) 3/4
   D) 1/2

Quantitative Reasoning (20 Questions)

1. What is 25% of 240?
   A) 50
   B) 60
   C) 70
   D) 80

2. If a shirt costs Rs. 500 and is sold at 10% discount, what is the selling price?
   A) Rs. 450
   B) Rs. 470
   C) Rs. 480
   D) Rs. 490

3. Find the simple interest on Rs. 2000 at 5% per annum for 2 years.
   A) Rs. 100
   B) Rs. 150
   C) Rs. 200
   D) Rs. 250

4. What is the square root of 144?
   A) 10
   B) 11

C) 12
D) 13

5. A car travels 150 km in 3 hours. What is its average speed?
   A) 40 km/h
   B) 45 km/h
   C) 50 km/h
   D) 55 km/h

6. Find the value of x in $7x = 49$.
   A) 5
   B) 6
   C) 7
   D) 8

7. If the perimeter of a rectangle is 30 cm and the length is 8 cm, find the width.
   A) 7 cm
   B) 8 cm
   C) 9 cm
   D) 10 cm

8. Calculate the area of a triangle with base 10 cm and height 12 cm.
   A) 60 cm²
   B) 70 cm²
   C) 80 cm²
   D) 90 cm²

9. Simplify: $(8 \times 6) \div (3 \times 4)$
   A) 2
   B) 3
   C) 4
   D) 5

10. Convert 0.75 into fraction.
    A) 1/2
    B) 3/4
    C) 2/3
    D) 1/3

11. What is 15% of 600?
    A) 75
    B) 80
    C) 85
    D) 90

12. A number is increased by 20% to get 72. What is the original number?
   A) 50
   B) 55
   C) 60
   D) 65

13. Find the LCM of 8 and 12.
   A) 24
   B) 36
   C) 48
   D) 60

14. Solve for y: $3y - 7 = 11$.
   A) 4
   B) 5
   C) 6
   D) 7

15. How many degrees are there in a triangle?
   A) 90
   B) 180
   C) 270
   D) 360

16. A shopkeeper gives 10% discount on Rs. 800. How much discount is given?
   A) Rs. 70
   B) Rs. 75
   C) Rs. 80
   D) Rs. 85

17. A box contains 12 red and 8 blue balls. What is the probability of picking a red ball?
   A) 1/4
   B) 3/5
   C) 2/5
   D) 3/4

18. If $a = 5$ and $b = 3$, find $a^2 + b^2$.
   A) 25
   B) 34
   C) 35
   D) 64

19. A train travels 300 km in 5 hours. What is the speed?
   A) 50 km/h
   B) 55 km/h

C) 60 km/h

D) 65 km/h

20. The ratio of boys to girls is 3:4. If there are 21 boys, how many girls are there?

A) 25

B) 26

C) 28

D) 30

Subject-Based (40 Questions)

<u>Computer Science</u>

1. Which of the following tab is not present in the control panel program in the start menu ?
   A) Web
   B) Index
   C) Search
   D) Contents

2. What is the use of "All Caps" feature in Microsoft Word ?

   A) It changes all selected text into Capital Letter
   B) It adds captions for selected Image
   C) It shows all the image captions
   D) None of the above

3. The--------is firmware that contain a computers startup instruction ?
   A) POST
   B) BIOS
   C) CMOS
   D) DIOS

4. In Excel which key is used for format number in date format ?
   A) Ctrl+Shift+6
   B) Ctrl+Shift+4
   C) Ctrl+Shift+3
   D) Shift+1

5. In Excel which key is used for format number in time format ?
   A) Ctrl+Shift+6
   B) Ctrl+Shift+3
   C) Ctrl+Shift+5
   D) Ctrl+Shift+2

6. WWWW stands for ------- ?
   A) World Wide Web Wireless
   B) World Wide Web Worm
   C) World Wide Wonderful Wine
   D) World Wide Web Wrestling

7. GIF stands for ------- ?
   A) Graphic Interchangeable File
   B) Graphic Internet File

C) Graphic Interchangeable Format
D) Graphic Internet Format

8. Window key + F1 ?
   A) show system properties
   B) Help
   C) Show Desktop (toggle)
   D) Run

9. How many different positions can you set for drop cap in Ms Word ?
   A) 1
   B) 2
   C) 3
   D) 4

10. What should you do if you require pasting the same format in many places ?
    A)Double click the format painter then go on pasting in many places
    B) Click the format painter then go on pasting to many places holding Ctrl Key
    C) Click the Format painter and go on pasting in many places holding Alt Key
    D) All of above

11. All the output which is Printed on a paper is called-------- ?
    A) Soft Copy
    B) Hard Copy
    C) Both A And B
    D) None of these

12. In MS PowerPoint if you want to edit a chart you can ?
    A)Triple click the chart object
    B) Click and drag the chart object
    C) Double click the chart object
    D) Click the chart object

13. When was MS Windows operating system introduced ?
    A) 1975
    B) 1985
    C) 1990
    D) 2000

14. Shimmer Sparkle text Blinking Background are known as-------- ?
    A) Word art
    B) Font styles
    C) Text effects
    D) Font effects

15. MS-Word automatically moves the text to the next line when it reaches the right edge of the screen and is called ?
A) Carriage Return
B) Enter
C) Word Wrap
D) None of the above

16. Which option in File pull-down menu is used to close a file in MS Word ?
A) New
B) Quit
C) Close
D) Exit

17. In Microsoft Word shortcut key CTRL+W is used for-------- ?
A) open the Print dialog box
B) Update the current Web page
C) close the current window
D) None of these

18. How can you insert a sound file in your word document ?
A) From insert -> sound menu option
B) From insert -> file menu option
C) From insert -> object menu option
D) None of These

19. Why Drop Caps are used in document ?
A) To drop all the capital letters
B) To automatically begin each paragraph with capital letter
C) To begin a paragraph with a large dropped initial capital letter
D) None of These

20. If you will be displaying or printing your document on another computer youll want to make sure and select the ------------ option under the Save tab ?
A) Embed Fonts
B) Embed True Type Fonts
C) Save True Type Fonts
D) Save Fonts

21. Which of the following is used to create newspaper style columns in Ms Word ?
A) Format Columns
B) Table Insert Table
C) Format Tabs
D) Insert Textbox

22. Which bar is usually located below that Title Bar that provides categorized options in Ms Word ?
A) Menu bar
B) Status Bar
C) Tool bar
D) Scroll bar

23. Why headers and footers used in Microsoft Word Document ?
A) To enhance the overall appearance of the document
B) To mark the starting of a page
C) To make large document more readable
D) To allow page headers and footers to appear on document when it is printed

24. What is the function of Ctrl + B in Ms-Word ?
A) It converts selected text into the next larger size of the same font
B) It adds a line break to the document
C) It makes tho selected text bold
D) It applies Italic formatting t the selected text

25. What is the extension of files created in Ms-Word 97- 2003 ?
A) dot
B) doc
C) dom
D) txt

26. In Microsoft Word Macros are-------- ?
A) Small programs created in MS-Word to automate repetitive tasks by using VBA
B) Small add-on programs that are installed afterwards if you need them
C) Programming language that you can use to customize MS-Word
D) Large tools in Word such as mail merge

27. Graphics for word processor is -------- ?
A) Peripheral
B) Clip art
C) Highlight
D) Execute

28. A(n)-----------system is a set of Programs containing instructions that coordinate all the activities among computer hardware resources ?
A) Operating
B) Disk- Based
C) Management
D) Plateform

29. In Microsoft PowerPoint two kind of sound effects files that can be added to the presentation are ?
A) .wav files and .mid files
B) .wav files and .gif files
C) .wav files and .jpg files
D) .jpg files and .gif files

30. In MS Word to move the insertion point to the beginning of the next word command used is--------- ?
A) CTRL+RIGHT ARROW
B) CTRL+LEFT ARROW
C) CTRL+DOWN ARROW
D) None of these

31. In Microsoft PowerPoint Material consisting of text and numbers is best presented as ?
A) bullet slide
B) table slide
C) title slide
D) All of the above

32. Which of the following should you use if you want all the slide in the presentation to have the same "look" in Microsoft PowerPoint ?
A) the slide layout option
B) add a slide option
C) outline view
D) a presentation design template

33. If you have a PowerPoint show you created and want to send using email to another teacher you can add the show to your email message as a (an)--------- ?
A) Inclusion
B) Attachment
C) Reply
D) Forward

34. Keyboard used with personal Computer have-----------keys ?
A) 84 to 85 keys
B) 101 to 105 keys
C) both a And b
D) none of these

35. The output received on the display screen or in the audio or video form is called------- ?
A) Hard Copy
B) Soft Copy
C) Light copy
D) None of these

36. The Speed of CPU is measured in----- ?
   A) megahertz
   B) gigahertz
   C) Both A And B
   D) None of these

37. What are inserted as cross-reference in Word ?
   A) Placeholders
   B) Bookmarks
   C) Objects
   D) Word fields

38. A character that is raised and smaller above the baseline is known as-------- ?
   A) Raised
   B) Outlined
   C) Capscript
   D) Superscript

39. In MS-Word for what does ruler help ?
   A) to set tabs
   B) to set indents
   C) to change page margins
   D) All of the above

40. Which menu in MS Word can be used to change character size and typeface ?
   A) View
   B) Tools
   C) Format
   D) Data