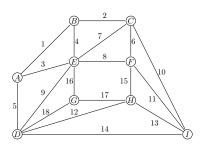
Corrected

IIT GUWAHATI DEPARTMENT OF CSE End Semester Examination

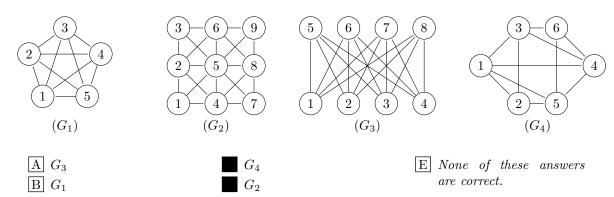
CS202/CS533 DISCRETE MATHEMATICS	February 6, 2024
Time: 09:00am-12:00pm	Max Marks: 100
Name	Sign
Roll	Invigilator
Instructions	
\bullet This question paper has ${\bf x}$ pages and ${\bf y}$ questions.	
• All the answers are to be bubbled on the Answer Sheet.	
• No questions about the paper will be entertained during th	e exam.
• You may use the supplementary sheets for the rough work. the supplementary sheets will not be evaluated. Do not a mentary sheets.	
• It is suggested that you use a black ball point pen.	
———Multiple Choice Que	ESTIONS
Question 1 How many different states were members of the	European Union in Jan. 2009?
A 15 B 21 C 25	27 E 31
Question 2 How are you?	
A Claude Monet	
Rene Coty	
C Alain Prost	
D Marcel Proust	
Question 3 ♣ Among the following cities, which ones are Free	nch prefectures?
Avignon	
B Sainte-Menehould	
Poitiers	
D None of these answers are correct.	
OTHER QUESTION	JC
	10

Question 4 Consider the graph G given below. The numbers on each edge denotes the weight of the corresponding edge. The weight of an edge e is denoted by w(e). The weight of a graph is defined to be $\sum_{e \in E} w(e)$. Let T be a least weighted connected subgraph of G containing 9 vertices. Which of the following statements are true?



- T doesn't contain the edge (G, D)
- C T is not bipartite.
- T contains exactly 8 edges
- T does contain the edge (A, B)
- E None of these answers are correct.

Question 5 Which of the graphs given below are planar?



Let G = (V, E) be a graph such that |V| = 7 and |E| = 16. Which of the following statements are true?

G connected.

 \square G has a perfect matching.

 $oxed{B}$ G is planar.

E None of these answers are correct.

- C G is Eulerian

Corrected

Answi	ER SHEET	
Get the invigilator's help to know your UID	. Invigilator's Sign :	
STUDENT INFORMATION		
Please bubble your UID.		
Name	0 1 2 3 4 5 6 7 8 9	
UIDRoll	0 1 2 3 4 5 6 7 8 9 0 1 2 3 4 5 6 7 8 9	
Email		
Responses		
Q 1: A B C E	Q 4: E E	
Q 2: A 🔳 C D	Q 5: A B E E	
Q 3: B B D	Q 6: B C D E	

Corrected