Total No. of Printed Pages: 21

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SET-X

PG-EE-June, 2023

SUBJECT: Computer Science Group

		Sr. No
Time: 1¼ Hours Roll No. (in figures)	Max. Marks : 100 (in words)	Total Questions: 100
Name	Date of Birth	
Father's Name	Mother's Name	
Date of Examination		
(Signature of the Candidate)		(Signature of the Invigilator)

CANDIDATES MUST READ THE FOLLOWING INFORMATION/INSTRUCTIONS BEFORE STARTING THE QUESTION PAPER.

- 1. All questions are compulsory.
- 2. The candidates must return the question booklet as well as OMR Answer-Sheet to the Invigilate concerned before leaving the Examination Hall, failing which a case of use of unfairmeans / mis-behaviour will be registered against him / her, in addition to lodging of an FIR with the police. Further the answer-sheet of such a candidate will not be evaluated
- 3. Keeping in view the transparency of the examination system, carbonless OMR Sheet is provided to the candidate so that a copy of OMR Sheet may be kept by the candidate.
- 4. Question Booklet along with answer key of all the A, B, C & D code shall be got uploaded on the University Website immediately after the conduct of Entrance Examination. Candidates may raise valid objection/complaint if any, with regard to discrepancy in the question booklet/answer key within 24 hours of uploading the same on the University Website. The complaint be sent by the students to the Controller of Examinations by hand or through email. Thereafter, no complaint in any case, will be
- 5. The candidate must not do any rough work or writing in the OMR Answer-Sheet. Rough work, if any, may be done in the question booklet itself. Answers must not be ticked in the question booklet.
- 6. There will be no negative marking. Each correct answer will be awarded one full mark. Cutting, erasing, overwriting and more than one answer in OMR Answer-Sheet will be treated as incorrect answer.
- 7. Use only Black or Blue Ball Point Pen of good quality in the OMR Answer-Sheet.
- 8. Before answering the questions, the candidates should ensure that they have been supplied correct and complete booklet. Complaints, if any, regarding misprinting etc. will not be entertained 30 minutes after starting of the examination.

PG-EE-June, 2023/(Computer Science Group)(SET-X)/(A)

1.	If $p \times q = p + q + \frac{p}{q}$,	what is the value of	8 × 2 ?	
	(1) 6	(2) 10	(3) 14	(4) 16
2.	If $0.13 \times p^2 = 13$, th	en p is equal to:		
	(1) 10	(2) 0.01	(3) 0.001	(4) 100
3.	If $A = \{5, 6\}$ and $B =$	{7, 8}, then what is t	he number of relation	ns from A to B?
	(1) 2 ²	(2) 2 ³	$(3) 2^4$	(4) 2 ⁵
4.	If $A = \{1, 2, 3, 4, 5,\}$	7, 8, 9} and $B = \{2, 4,$	6, 7, 9}, then find nu	imber of proper subsets of
	$A \cap B$?			(4) 33
	(1) 14	(2) 15	(3) 32	(4) 00
5.	The magnitude of	the vector $6i + 2j + 3k$		(4) 8
	(1) 5	(2) 6	(3) 7	(4) 0
6.	$(\sin 30^{\circ} + \cos 30^{\circ}) -$	$(\sin 60^{\circ} + \cos 60^{\circ})$:		(4) 1
	(1) 0	(2) 1	(3) 2	(4) -1
7	If $x = 7 - 4\sqrt{3}$, the	en what is the value o	of $\sqrt{x} + \frac{1}{\sqrt{x}}$?	
	(1) 1	(2) 2	(3) 3	(4) 4
8	. The scalar produc	et of $5i + j - 3k$ and $3i$	-4j + 7k is:	40. 10
	(1) 15	(2) -15	(3) 10	(4) -10
9	. (1	vation of a ladder leavay from the wall. Th	aning against a wall he length of ladder is	is 60° and the foot of the
	(1) 22 m	(2) 4.6 m	(3) 7.8 m	(1)
10		6 red, 4 blue, 2 gre	een and 3 yellow mobability that either	arbles. If two marbles are both are green or both are

picked up at random, what is the probability that either both are green or both are

(2) 1/3

(4) None of the above

yellow?

(1) 5/91

(3) 4/105

11.	Choose	missing	pattern	
-----	--------	---------	---------	--

QPO, NML, KJI, -, EDC

- (1) HGF
- (2) CAB
- (3) JKM
- (4) GHD
- **12.** Choose the *correct* relation similar to following:

FISH: SCHOOL

(1) Herd: Peacock

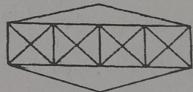
(2) Wolf: Pack

(3) Cow: Farm

- (4) Elephant: Jungle
- 13. Find the minimum number of straight lines required to make the given figure:



- (1) 15
- (2) 21
- (3) 18
- (4) 20
- 14. Find the minimum number of straight lines in the below figure :



(1) 20

- (2) 19
- (3) 17
- (4) 15
- **15.** Vineet is taller than Raman but shorter than Jyoti. Sumit is the shortest. Deepak taller than Sumit but shorter than Raman. Who is the tallest?
 - (1) Jyoti
- (2) Raman
- (3) Vineet
- (4) Deepak
- **16.** Select the missing letter from the given options:

В	J	I
Е	K	В
G	U	?

(1) O

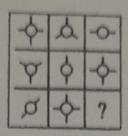
(2) M

(3) K

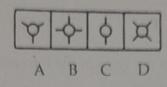
(4) P

17. Select the Answer figure that fits in the blank space in the given Problem figure:

Problem Figure



Answer Figures:



- (1) D
- (2) C
- (3) B
- (4) A

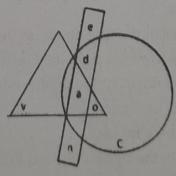
18. Select the option that depicts the correct mirror image of the given word when the mirror is placed horizontally below the word:

HEALTHY

- 1. HEALTHY
- 2. YHTLA3H
- HEALTHY .E
- 4. YHTLAEH

- (1) 1
- (2) 2
- (3) 3
- (4) 4

19. Which of the following part is a part of both circle and triangle?



- (1) e
- (2) v
- (3) 0
- (4) c

20. The proportion of male students and the proportion of vegetarian students in a school are given below. The school has a total of 800 students, 80% of whom are in the secondary section and rest equally divided between class 11 and 12:

What is the percentage of vegetarian student in class 11?

	Male (M)	Vegetarian (V)
Class 12	0.60	0.54
Class 11	0.55	0.50
Secondary Section	0.275 (288)	0.55(352)
Total	0.475	0.53

(1) 40

4

(2) 45

(3) 60

(4) 65

21. Answer the questions on the basis of the information given below:

Seven varsity basketball players A, B, C, D, E, F and G are to be honoured at a special luncheon. The players will be seated on the dais in a row. A and G have to leave the luncheon early and so must be seated at the extreme right. B will receive the most valuable player's trophy and so much be in the centre to facilitate presentation. C and D are bitter rivals and therefore, must be seated as far apart as possible.

Which of the following pairs cannot be seated together?

(1) B and D

(2) Cand F

(3) D and G

(4) E and A

22. Read the text and the statements carefully, and answer the questions .

Four people of different nationalities live on the same side of a street in four houses each of different colors. Each person has a different favorite drink. The following additional information is also known:

- A. The Englishman lives in the red house.
- B. The Italian drink tea.
- C. The Norwegian lives in the first house on the left.
- D. In the second house from the right they drink milk.
- E. The Norwegian lives adjacent to the blue house.
- F. The Spaniard drinks fruit juice.
- G. Tea is drunk in the blue house.
- H. The white house is to the right of the red house.

The Norwegian drinks:

(1) Milk

(2) Cocoa

(3) Tea

(4) Fruit Juice

23. Answer the questions on the basis of the information given below:

A, B, C, D, E and F are a group of friends. There are two house wives, one professor, one engineer, one accountant and one lawyer in the group. There are only two married couples in the group. The lawyer is married to D, who is a housewife. No women in the group are either an engineer or an accountant. C, the accountant, is married to F, who is a professor. A is married to housewife. E is not a housewife.

How many members of group are males?

- (1) 1
- (2) 3
- (3) 4
- (4) Cannot be determined
- **24.** The first and the last parts of the sentence are numbered 1 & 6. The rest of the sentence, is split into four parts and named P, Q, R and S. These four parts are not given in their proper order.

Read the sentence and find out which of the four combinations is correct?

- 1. It was obvious
- P. made by him
- Q. submitted at the meeting
- R. from the comments
- S. on the draft proposals
- 6. that he was not satisfied with them.
- (1) QRSP

(2) SQRP

(3) RPSQ

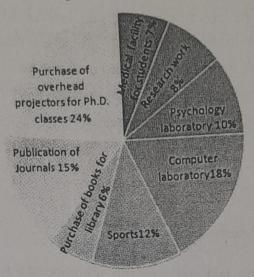
- (4) PSRQ
- **25.** In an examination the average marks of Rohit are 63. If he got 20 more marks in Science and 28 more marks in Mathematics, then his average would have been 69. Find the total number of subjects he studied:
 - (1) 7

(2) 8

- (3) 10
- (4) 12

26. Study the following pie-chart carefully to answer these questions :

Total Expenditure: Rs. 60 Lacs



Expenditure of funds by University for various purpose

What is the difference between the expenditure made by university for Publication of Journals and Psychology Laboratory?

- (1) Rs. 4 lacs
- (2) Rs. 3 lacs
- (3) Rs. 4.2 lacs
- (4) Rs. 3.8 lacs

27. Study the following table and answer the questions:

Classification of 100 students based on the marks obtained by them in Physics and Chemistry in an Examination:

Subjects	Marks out of 50				
	40 and above	30 and above	20 and above	10 and above	0 and above
Physics	9	32	80	92	100
Chemistry	4	21	66	81	100
Average (Aggregate)	7	27	73	87	100

What is the difference between the number of students passed with 30 as cut-off marks in Chemistry and those passed with 30 as cut-off marks in aggregate?

- (1) 3
- (2) 4
- (3) 5
- (4) 6

Answer the questions based on the following information: 28.

A, B, C and D are to be seated in a row. But C and D cannot be together. Also B cannot be at the third place. If A and B are together, then which of the following must be necessarily true?

- (1) C is not at the first place
- (2) A is at the third place

(3) D is at the first place

(4) C is at the first place

Answer the questions on the basis of the following information:

Four families decided to attend the marriage ceremony of one of their colleagues. One family has no kids, while the others have at least one kid each. Each family with kids has at least one kid attending the marriage.

Given below some information about the families, and who reached when to attend the marriage:

The family with 2 kids came just before the family with no kids.

Shanti who does not have any kids reached just before Sridevi's family. Sunil and his wife reached last with their only kid.

Anil is not the husband of Joya.

Anil and Raj are fathers.

Sridevi's and Anita's daughters go to the same school.

Joya came before Shanti and met Anita when she reached the venue. Raman stays the farthest from the venue.

Raj said his son could not come because of his exams.

Name the correct pair of husband and wife:

- (1) Raj and Shanti
- (2) Sunil and Sridevi
- (3) Anil and Sridevi
- (4) Raj and Anita

30. Answer the questions on the basis of the information given below:

The seven basic symbols in a certain numeral system and their respective values are as follows:

$$I = 1$$
, $V = 5$, $X = 10$, $L = 50$, $C = 100$, $D = 500$ and $M = 1000$

In general, the symbols in the numeral system are read from left to right, starting with the symbol representing the largest value; the same symbol cannot occur continuously more than three times; the value of the numeral is the sum of the values of the symbols. For example, XXVII = 10 + 10 + 5 + 1 + 1 = 27. An exception to the left to right reading occurs when a symbol is followed immediately by a symbol of greater value; then, the smaller value is subtracted from the larger.

For example, XLVI = (50 - 10) + 5 + 1 = 46.

The value of the numeral MCMXCIX is:

- (1) 1999
- (2) 1899
- (3) 1989
- (4) 1889

31. Aman is 16th from the left end in a row of boys and Vivek is 18th from the right end. Gagan is 11th from Aman towards the right and 3rd from Vivek towards the right end. How many boys are there in the row?

- (1) 40
- (2) 48
- (3) 42
- (4) 41

32. How many 7's are there in the following series which are not immediately followed by 3 but immediately preceded by 8?

898762263269732872778737794

(1) 10

(2) 3

- (3) 2
- (4) 0

33. Manisha ranked sixteenth from the top and twenty-ninth from the bottom among those who passed an examination. Six boys did not participate in the competition and five failed in it. How many boys were there in the class?

(1) 40

- (2) 48
- (3) 55

(4) 58

In a list, the rank of Mahesh was 16 from the top and whereas from bottom, the rank is 29. The list was about the passed-out students. Six students were failed due to non
participation and 5 were failed. Find the total number of students present in the class.

- (1) 55
- (2) 54
- (3) 53
- (4) 52

If \times means \div , – means \times , \div means + and + means –, then $(3 - 15 \div 19) \times 8 + 6 = ?$

- (1) 2
- (2) -1
- (3) 4
- (4) 8

A sum of Rs.1 890 has to be used to give 9 prizes to the customers of a super market for their overall academic purchases. If each prize is Rs. 30 less than its preceding price, what is the least value of the price?

- (1) 80
- (2) 85
- (3) 90
- (4) 95

If"A" denotes "subtracted from", "B" denotes "added to", "C" denotes "divided by", 37. "D" denotes "multiplied by", then which of the following statement is correct?

- (1) 13C13A13B13D13 = 157
- (2) 18C16D49A27B9 = 200
- (3) 3A12B16D17Cl = 163
- (4) 5C7A9D8B2 = 294

Statement: Should children be legally made responsible to take care of their parents 38. during their old age?

Arguments:

- I. Yes. Such matter can only be solved by legal means.
- II. Yes. Only this will bring some relief to poor parents.
- (1) Only Argument I is strong
- (2) Only Argument II is strong
- (3) Either I or II is strong
- (4) Neither I nor II is strong

39. Statement: Should fashionable dresses be banned?

Arguments:

- I. Yes. Fashions keep changing and hence consumption of cloth increases.
- II. No. Fashionable clothes are a person's self-expression and therefore his/her fundamental right.
- (1) Only Argument I is strong
- (2) Only Argument II is strong
- (3) Either I or II is strong
- (4) Neither I nor II is strong
- **40.** *Statement*: Should 'computer knowledge' be made a compulsory subject for all the students at secondary school level?

Arguments:

- I. No, our need is 'bread' for everyone, we cannot follow western models.
- II. Yes. We cannot compete in the international market without equipping our children with computers.
- (1) Only Argument I is strong
- (2) Only Argument II is strong
- (3) Either I or II is strong
- (4) Neither I nor II is strong
- **41.** On reaching the railway station, you find that the train you wanted to catch is just to start and there is hardly any time for purchasing the ticket. The best thing for you is to:
 - (1) rush to the train rather than miss it and inform the T.T.I. at the next stoppage about your inability to purchase the ticket.
 - (2) rush to the train and perform your journey quietly.
 - (3) first purchase the ticket and then catch the train if it is there.
 - (4) miss the train rather than take the risk of boarding the moving train.

- **42.** Assertion: The problem solving ability, mental performance and memory of the employees of company C are deteriorating.
 - RI. Due to tight schedule at company C, the employees of the company are skipping their breakfast regularly.
 - RII. The job is physical in nature, but not mental.
 - (1) Only RI and not RII is the reason for the assertion.
 - (2) Only RII and not RI is the reason for the assertion.
 - (3) Either RI or RII, but not both, is the reason for the assertion.
 - (4) Neither RI nor RII is the reason for the assertion.
- **43.** Assertion: During polling season, new roads are constructed, there is twenty-four hours of power supply, good supply of water, and many other facilities are provided to the people.
 - RI. Political leaders want to be in the good books of the people.
 - RII. Polling season that is the right time to convert black money to white money in the name of party funds for the industries.
 - (1) Only RI and not RII is the reason for the assertion.
 - (2) Only RII and not RI is the reason for the assertion.
 - (3) Either RI or RII, but not both, is the reason for the assertion,
 - (4) Neither RI nor RII is the reason for the assertion.
- **44.** *Statements*: All Carrots are birds. Some telephones are Carrots. All bedsheets are telephone.

Conclusion:

- I. All bedsheet are birds
- II. Some bedsheet are birds
- III. Some birds are telephone
- IV. All telephone are birds
- (1) Only I follows

- (2) Only II follows
- (3) Only I and III follows
- (4) Only III follows

Conclusions:

Some stones are pearls.

	III. No stone is pe	arl.		
	(1) Only conclusion	on I is true		
	(2) Both conclusion	on I and III are true		
	(3) Either conclus	ion I or II is true	*******	
	(4) None of the ab	oove		
46.	Nitin ranks 18th in	a class of 49 student	ts. What is rank from	the last ?
	(1) 31	(2) 18	(3) 32	(4) 19
47.		the number, as the		thich are as far away from anged in ascending order
	(1) None	(2) One	(3) Two	(4) Three
48.	If the day before tomorrow?	yesterday was Sa	turday, what day w	will fall on the day after
	(1) Friday	(2) Thursday	(3) Wednesday	(4) Tuesday
49.	right, what will be	e number 25673948 e the sum of the dig new arrangement?	gits which are fourt	cending order from left to h from the right and third
	(1) 10	(2) 9	(3) 8	(4) 6

(4) 6

45. Statements: Some pearls are gems. All gems are diamonds. No diamond is stone.

Some stones are corals.

II. Some corals being diamond is possibility.

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		13		
50.	There are 6 persons A, B, C, D, E and F	who have different rank in class test exam.		
	Person A got last rank in class. E was not first in class test rank. B got more mark than C, but he did not get second rank in class. E got more marks than only A. F was situated between D and B in class test ranking, and B score less than D. The second highest person got 92 marks.			
	D got which of the following possible marks?			
	(1) 89 (2) 92	(3) 93 (4) 88		
51.	Which of the following is the computer	system's hardware component?		
	(1) RAM	(2) Keyboard		
	(3) Adobe Reader	(4) ROM		
52.	How many bits are there in 1 nibble?			
	(1) 4 (2) 8	(3) 16 (4) 24		
53.	What is the full form of USB?			
	(1) Universal Sequential Bus	(2) Unique Serial Bus		
	(3) Universal Serial Bus	(4) Unique Sequential Bus		
54	What one of the following is volatile m	nemory?		
04.	(1) RAM (2) ROM	(3) EPROM (4) PROM		
	What is the length of character in ASC	TI codes ?		
55.	(1) 4 (2) 8	(3) 7 (4) 6		
		The Committee of the Co		
56.	(0)	(3) 3 (4) 7		
	(1) 2 (2) 4	(5) 5		
57.				
	(1) 1 gigabyte is equal to 1024 kilobyt			
	(2) Decimal number system cannot co			
	(3) Hexadecimal system have 16 bits			
	(1) Nama			

58	. What is the octal	representation of (01	1101)	?	
	(1) 35	(2) 45		34	(4) 54
59.	Which is the large	est unit of storage?			
	(1) Kb	(2) Mb	(3)	Zb	(4) Yb
60	How many values	s can be represented	by or	ne byte ?	
00.	(1) 512	(2) 64		256	(4) 8
61.					
	(1) Write Once, R				
	(2) Write Over, R				
	(3) Write Once, R				
	(4) Write Out, Rea	ad Many			
62.	What of the follow	ring is octal represen	tatior	(in 4 digits) of	decimal number (89
	(1) 3567	(2) 1600	(3)	1701	(4) 1654
63.	MSD refers to?				
	(1) Many Significa	ant Digit			
	(2) Most Significan	nt Decimal			
	(3) Multiple Signif	ficant Digit			
	(4) Most Significan	nt Digit			
4.	2's complement of -	-14 ?			
	(1) 11110001	(2) 10010010	(3)	11100001	(4) 01010110
					(4) 01010110
5.	Which of the follow	ring is invalid hexad	ecim	al?	
	(1) 0A23	(2) AB14	(3)	XA23	(4) 1234

36.	Which of the following is false?				
	(1) 2's complement of a 2's complement of a number I the number itself.				
	(2) Excess-3 code for 369 is 011110011100				
	(3) 1-bit gray code has two code words	s 0 and 1			
	(4) In 7-bit hamming code of BCD locations.	, the parity bits are placed at 1, 2 and			
57.	What is bootstrapping called?				
	(1) Hot Boot	(2) Cold Boot			
	(3) Cold hot strap	(4) Hot bootstrap			
68.	Which of the following is system softv	vare?			
	(1) Operating System	(2) Utilities			
	(3) Compiler	(4) All of the above			
69.	Which of the following payment card	has a microchip embedded in its surface?			
	(1) Debit Card	(2) Credit Card			
	(3) Metro Card	(4) Charge Card			
70.	Which of the following is a condition	that causes deadlock?			
	(1) Circular Wait	(2) Mutual Exclusion			
	(3) Hold and Wait	(4) All of the above			
71.	. A user can get files from another con	nputer on the Internet by using:			
	(1) TELNET (2) HTTP	(3) FTP (4) UTP			
72	. Transport layer is at which level in T	CCP/ IP model ?			
	(1) 1 (2) 2	(3) 3 (4) 4			

	tag to doed for displaying large	
	(1) <big></big>	
	(2) <large></large>	
	(3) <size></size>	
	(4) 	
74.	4. Which among the following language is better	r for structured coding?
		FORTAN (4) PL/1
75.	5. What type of scheduling is round-robin sched	uling?
	(1) Linear Data Scheduling	
	(2) Preemptive Scheduling	
	(3) Non-linear data scheduling	
	(4) Non-Preemptive Scheduling	
	ability to switch from one task to another.	pe ready for execution and provides
((1) Multiprogramming (2) N	Multithreading
((3) Multitasking (4) N	None of the above
77. V	Which html tag is used to scroll text in a Web	Page ?
((1) <scroll></scroll>	
(2	(2) <round></round>	
(3	(3) <marquee></marquee>	
	(4) <go></go>	
8	is single sequential flow of control in	n a program.
(1)	1) Process (2) Task (3) T	Thread (4) Structure

P. T. O.

79.	Which among the following is the property of Unix OS?				
	(1) Multi-user		Time Sharing		
	(3) Multi-tasking		All of the above		
80.	Which of the following is	not a paired tag?			
	(1) (2) <1			(4)	
81.	Which among the following	ng OS does <i>not</i> im	plement multitasi	king truly?	
	(1) Windows NT	(2)	Windows 98		
	(3) Windows XP	(4)	MS DOS		
82.	In computers, subtraction	is carried out by:			
	(1) 1's complement	(2)	9's complement		
	(3) 2's complement	(4)	10's complemen	t	
33.	Which of the following is	not the weighted	code?		
	(1) Decimal number syste	m (2)	Excess-3 code		
	(3) Binary number system	(4)	None of the abo	ve	
34.	Cache memory acts betwee	en:			
	(1) RAM and ROM		CPU and RAM		
	(3) CPU and Hard Disk	(4)	None		
5.	101111 - 010101 = ?				
	(1) 100100 (2) 01	1010 (3)	011001	(4) 110011	
	(2)				
6.	Keyboard shortcut for red (1) Ctrl +Z (2) Ct	1-1	Ctrl + X	(4) Shift + Y	
	(1) Cur				
7.	1101 + 1100 in binary arith	(-)	1001	(4) 0011	
	(1) 11001 (2) 11	.00			

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88. The address technique employed l	by a CPU is:
(1) Direct	(2) Indirect
(3) Immediate	(4) All of the above
89. Keys to switch between application	ns running in Windows OS :
(1) Ctrl + Tab	(2) Alt + Tab
(3) Shift + Tab	(4) Fn + Tab
90. (10.10) × (01.01)	
(1) 011.0010	(2) 110.0011
(3) 001.1101	(4) None of the above
91. Fill in the blank:	
The river Thames flows L	ondon.
(1) through (2) on	(3) over (4) in
92. In the following choose the one which	ch best express the meaning of the idiom/phra
Talk through one's hat	
(1) To talk secretly	(2) Talk positively
(3) Talk good points	(4) Talk nonsense
P3. Choose the word which best expresse VENT	es the meaning of the given word:
(1) End	(2) Storage
(3) Opening	(4) Past tense of Go
1. My father's dealings are open and abo	ve board.
(1) Mandatory	(2) Without any secret
(3) Very clear	(4) To everyone's liking

A	
95.	Choose the word which best expresses the meaning of the given word:
	COMBAT
	(1) Conflict (2) Quarrel (3) Feud (4) Fight
96.	Read the passage and choose most relevant answer:
	Erosion of America's farmland by wind and water has been a problem since settlers first put the prairies and grasslands under the plow in the nineteenth century. By the 1930s, more than 282 million acres of farmland were damaged by erosion. After 40 years of conservation efforts, soil erosion has accelerated due to new demands placed on the land by heavy crop production. In the years ahead, soil erosion and the pollution problems it causes are likely to replace petroleum scarcity as the nation's most critical natural resource problem. As we understand from the reading, today, soil erosion in America
97.	(4) is worse in areas which have In the following question, a sentence has been broken into parts and the parts have been scrambled and numbered. Choose the <i>correct</i> order of these parts from the given alternatives.
	I. In a masterly way
	II. Munshi Premchands works, especially fiction
	III. Have been analysed and critiqued
98.	IV. In the next chapter (1) II III I IV (2) III II I IV (3) IV II III I (4) I II III IV (5) III III I IV (6) III III III III III III III III III I
	P. T.

99. S1: A noise started above their heads.

P: But people did not take it seriously.

Q: It was to show everyone that there was something wrong.

R: It was a dangerous thing to do.

S: For, within minutes the ship began to sink.

S6: Nearly 200 lives were lost on the fateful day.

The proper sequence should be:

(1) PQSR

(2) PRQS

(3) QPRS

(4) QPSR

100. S1: She said on the phone that she would report for duty next day.

P: We waited for few days then we decided to go to her place.

Q: But she did not.

R: We found it locked.

S: Even after that we waited for her quite a few days.

S6: Eventually we reported to the Police.

The proper sequence should be:

(1) PRSQ

(2) QPSR

(3) OPRS

(4) SQPR

B

(DO NOT OPEN THIS QUESTION BOOKLET BEFORE TIME OR UNTIL YOU ARE ASKED TO DO SO)

PG-EE-June, 2023

SET-X

SUBJECT: Computer Science Group 10554

Sr. No

Time: 11/4 Hours	Max. Marks: 100	Total Questions 100
Roll No. (in figures)	(in words)	
Name		
Father's Name	Mother's Name	
Date of Examination		
(Signature of the Candidate)	'	(Signature of the Invigilator)

CANDIDATES MUST READ THE FOLLOWING INFORMATION/INSTRUCTIONS BEFORE STARTING THE QUESTION PAPER.

- All questions are compulsory.
- 2. The candidates must return the question booklet as well as OMR Answer-Sheet to the Invigilator concerned before leaving the Examination Hall, failing which a case of use of unfairmeans / mis-behaviour will be registered against him / her, in addition to lodging of an FIR with the police. Further the answer-sheet of such a candidate will not be evaluated.
- 3. Keeping in view the transparency of the examination system, carbonless OMR Sheet is provided to the candidate so that a copy of OMR Sheet may be kept by the candidate.
- 4. Question Booklet along with answer key of all the A, B, C & D code shall be got uploaded on the University Website immediately after the conduct of Entrance Examination. Candidates may raise valid objection/complaint if any, with regard to discrepancy in the question booklet/answer key within 24 hours of uploading the same on the University Website. The complaint be sent by the students to the Controller of Examinations by hand or through email. Thereafter, no complaint in any case, will be considered.
- The candidate must not do any rough work or writing in the OMR Answer-Sheet. Rough work, if any, may be done in the question booklet itself. Answers must not be ticked in the question booklet.
- There will be no negative marking. Each correct answer will be awarded one full mark.
 Cutting, erasing, overwriting and more than one answer in OMR Answer-Sheet will be treated
 as incorrect answer.
- 7. Use only Black or Blue Ball Point Pen of good quality in the OMR Answer-Sheet.
- 8. Before answering the questions, the candidates should ensure that they have been supplied correct and complete booklet. Complaints, if any, regarding misprinting etc. will not be entertained 30 minutes after starting of the examination.

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1.	A user can get files	s from another con	nputer on the Interr	et by using :	
	(1) TELNET	(2) HTTP	(3) FTP	(4) UTP	
2.	Transport layer is	at which level in T	CP/ IP model ?		
	(1) 1	(2) 2	(3) 3	(4) 4	
3.	Which tag is used	for displaying larg	ge font size ?		
	(1) <big><th>></th><th></th><th></th><th></th></big>	>			
	(2) <large><!--1</th--><th>LARGE></th><th></th><th></th><th></th></large>	LARGE>			
	(3) <size><th>Œ></th><th></th><th></th><th></th></size>	Œ>			
	(4) <th>ONT></th><th></th><th></th><th></th>	ONT>			
4.	Which among the	e following langua	ge is better for struc	tured coding?	
	(1) BASIC	(2) PASCAL	(3) FORTAN	(4) PL/1	
5.	What type of sch	eduling is round-r	obin scheduling ?		
	(1) Linear Data S	Scheduling	(2) Preemptiv	ve Scheduling	
	(3) Non-linear d	ata scheduling	(4) Non-Pree	mptive Scheduling	
6		more than one pr		for execution and prov	ides the
	(1) Multiprogra	mming	(2) Multithre	ading	
	(3) Multitasking	g	(4) None of t	he above	
7	7. Which html tag	is used to scroll te	xt in a Web Page ?	•	
	(1) <scroll><th>croll></th><th></th><th></th><th></th></scroll>	croll>			
	(2) <round><!--</th--><th>round></th><th></th><th></th><th></th></round>	round>			
	(3) <marquee></marquee>				
	(4) <go></go>	>			

	8. is sin	gle sequential flow	of control in a progra	im.
	(1) Process	(2) Task	(3) Thread	(4) Structure
	9. Which among t	he following is the	e property of Unix OS	?
	(1) Multi-user		(2) Time Shari	
	(3) Multi-taskii	ng	(4) All of the a	bove
1	0. Which of the fol	lowing is <i>not</i> a pa	ired tag ?	
	(1) 	(2) <u></u>	(3) 	(4)
1	1. Which of the following	lowing is the comp	outer system's hardwa	re component ?
	(1) RAM		(2) Keyboard	
	(3) Adobe Read	er	(4) ROM	
12	2. How many bits a	re there in 1 nibbl	e ?	
	(1) 4	(2) 8	(3) 16	(4) 24
13	. What is the full fo	orm of USB?		
	(1) Universal Sec	uential Bus		
	(2) Unique Serial	Bus		
	(3) Universal Ser	al Bus		
	(4) Unique Seque	ntial Bus		
14.	What one of the fo	llowing is volatile	e memory ?	
	(1) RAM	(2) ROM	(3) EPROM	(4) PROM
15.	What is the length	of character in AS	CII codes ?	
	(1) 4	(2) 8	(3) 7	(4) 6
16.	What is the value of	f binary number (011?	
	(1) 2	(2) 4	(3) 3	(4) 7

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	17. Which of the fo	onowing is true (
	(1) 1 gigabyte	is equal to 1024 l	kilobyte		
	(2) Decimal nu	umber system car	nnot contain binary digi	ts	
	(3) Hexadecim	nal system have 1	6 bits		
	(4) None				
1	8. What is the octa	al representation	of (011101) ?		
	(1) 35	(2) 45	(3) 34	(4) 54	
19	9. Which is the lar	gest unit of stora	ige?		
	(1) Kb	(2) Mb	(3) Zb,	(4) Yb	
20	. How many valu	es can be repres	ented by one byte?		
	(1) 512	(2) 64	(3) 256	(4) 8	
21.		om Aman towa	n a row of boys and Viords the right and 3rd n the row?		
	(1) 40	(2) 48	(3) 42	(4) 41	
22.	How many 7's arby 3 but immedia		ollowing series which y 8 ?	are not immediately	, followed
	89876226326	6973287277	8737794		
	(1) 10	(2) 3	(3) 2	(4) 0	
3.	those who passed	an examination	the top and twenty-in. Six boys did not parwere there in the class	ticipate in the comp	-

(2) 48 (3) 55

22.

23.

(1) 40

(4) 58

In a list, the rank of Mahesh was 16 from the top and whereas from bottom, the rank is 29. The list was about the passed-out students. Six students were failed due to non
participation and 5 were failed. Find the total number of students present in the class.

(1) 55

(2) 54

(3) 53

(4) 52

25. If × means ÷, – means ×, ÷ means + and + means –, then $(3 - 15 \div 19) \times 8 + 6 = ?$

(1) 2

(2) -1

(3) 4

(4) 8

26. A sum of Rs.1 890 has to be used to give 9 prizes to the customers of a super market for their overall academic purchases. If each prize is Rs. 30 less than its preceding price, what is the least value of the price?

(1) 80

(2) 85

(3) 90

(4) 95

27. If "A" denotes "subtracted from", "B" denotes "added to", "C" denotes "divided by", "D" denotes "multiplied by", then which of the following statement is *correct*?

(1) 13C13A13B13D13 = 157

(2) 18C16D49A27B9 = 200

(3) 3A12B16D17Cl = 163

(4) 5C7A9D8B2 = 294

28. *Statement*: Should children be legally made responsible to take care of their parents during their old age?

Arguments:

- I. Yes. Such matter can only be solved by legal means.
- II. Yes. Only this will bring some relief to poor parents.
- (1) Only Argument I is strong
- (2) Only Argument II is strong
- (3) Either I or II is strong
- (4) Neither I nor II is strong

29. *Statement*: Should fashionable dresses be banned?

Arguments:

- I. Yes. Fashions keep changing and hence consumption of cloth increases.
- II. No. Fashionable clothes are a person's self-expression and therefore his/her fundamental right.
- (1) Only Argument I is strong
- (2) Only Argument II is strong
- (3) Either I or II is strong
- (4) Neither I nor II is strong
- **30.** Statement: Should 'computer knowledge' be made a compulsory subject for all the students at secondary school level?

Arguments:

- I. No, our need is 'bread' for everyone, we cannot follow western models.
- II. Yes. We cannot compete in the international market without equipping our children with computers.
- (1) Only Argument I is strong
- (2) Only Argument II is strong
- (3) Either I or II is strong
- (4) Neither I nor II is strong
- **31.** Choose missing pattern:

QPO, NML, KJI, -, EDC

- (1) HGF
- (2) CAB
- (3) JKM
- (4) GHD
- **32.** Choose the *correct* relation similar to following:

FISH: SCHOOL

(1) Herd: Peacock

(2) Wolf : Pack

(3) Cow : Farm

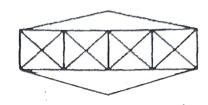
(4) Elephant: Jungle

33. Find the minimum number of straight lines required to make the given figure :



- (1) 15
- (2) 21
- (3) 18
- **(4)** 20

34. Find the minimum number of straight lines in the below figure :



- (1) 20
- (2) 19
- (3) 17
- (4) 15

35. Vineet is taller than Raman but shorter than Jyoti. Sumit is the shortest. Deepak is taller than Sumit but shorter than Raman. Who is the tallest?

(1) Jyoti

(2) Raman

(3) Vineet

(4) Deepak

36. Select the missing letter from the given options:

В	J	I
Е	K	В
G	U	?

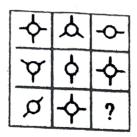
(1) O

(2) M

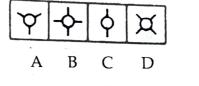
(3) K

(4) P

37. Select the Answer figure that fits in the blank space in the given Problem figure : *Problem Figure*



Answer Figures:



- (1) D
- (2) C
- (3) B
- (4) A
- **38.** Select the option that depicts the correct mirror image of the given word when the mirror is placed horizontally below the word :

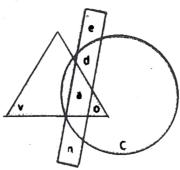
HEALTHY

- 1. HEVILHA
- 2. YHTLA3H
- HEALTHY &
- 4. YHTLAEH

(1) 1

(2) 2

- (3) 3
- (4) 4
- **39.** Which of the following part is a part of both circle and triangle?



(1) e

(2) v

(3) o

(4) c

40. The proportion of male students and the proportion of vegetarian students in a school are given below. The school has a total of 800 students, 80% of whom are in the secondary section and rest equally divided between class 11 and 12:

What is the percentage of vegetarian student in class 11?

	Male (M)	Vegetarian (V)
Class 12	0.60	0.54
Class 11	0.55	0.50
Secondary Section	0.275 (288)	0.55(352)
Total	0.475	0.53

	Total	0.475		0.53		
	(1) 40 (2) 45	(3)	60	(4)	65
41.	Fill in the blank :					
	The river Thames flow	ws Lon	don.			
	()	2) on		over	(4)	
42.	In the following choo	se the one which	best e	express the mear	ning	of the idiom/phrase:
	Talk through one's ha	t				
	(1) To talk secretly		(2)	Talk positively		
	(3) Talk good points		(4)	Talk nonsense		
43.	Choose the word whi	ch best expresses	the n	neaning of the gi	iven	word:
	VENT					
		2) Storage	(3)	Opening	(4)	Past tense of Go
44.	My father's dealings a	re open and abov	e bo	ard.		
	(1) Mandatory		(2)	Without any se	cret	
	(3) Very clear		` '	To everyone's l		
45.	Choose the word which	ch best expresses	the n	neaning of the g	iver	word:

(3) Feud

(4) Fight

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(2) Quarrel

COMBAT

(1) Conflict

46. Read the passage and choose most relevant answer :

Erosion of America's farmland by wind and water has been a problem since settlers first put the prairies and grasslands under the plow in the nineteenth century. By the 1930s, more than 282 million acres of farmland were damaged by erosion. After 40 years of conservation efforts, soil erosion has accelerated due to new demands placed on the land by heavy crop production. In the years ahead, soil erosion and the pollution problems it causes are likely to replace petroleum scarcity as the nation's most critical natural resource problem.

As we understand from the reading, today, soil erosion in America

- (1) is worse than it was in the nineteenth century
- (2) is the most critical problem that the nation faces
- (3) causes humans to place new demands on the land
- (4) is worse in areas which have a lot of petroleum production
- **47.** In the following question, a sentence has been broken into parts and the parts have been scrambled and numbered. Choose the *correct* order of these parts from the given alternatives.
 - I. In a masterly way
 - II. Munshi Premchands works, especially fiction
 - III. Have been analysed and critiqued
 - IV. In the next chapter
 - (1) II III I IV
- (2) III II I IV
- (3) IV II III I
- (4) I II III IV
- 48. Fill in the blank with the most appropriate word from the options given below:

A good driver will be very careful before carrying out a complex

- (1) Movement
- (2) Manoeuvre
- (3) Motion
- (4) Movement

- **49.** S1: A noise started above their heads.
 - P: But people did not take it seriously.
 - Q: It was to show everyone that there was something wrong.
 - R: It was a dangerous thing to do.
 - S: For, within minutes the ship began to sink.

S6: Nearly 200 lives were lost on the fateful day.

The proper sequence should be:

- (1) PQSR
- (2) PRQS
- (3) QPRS
- (4) QPSR

10								
50	50. S1: She said on the phone that she would report for duty next day.							
	P: We waited for few days then we decided to go to her place.							
	Q : But she did not.							
	R: We found it locked.							
	S: Even after that we waited for her quite a few days.							
	S6: Eventually we reported to the Police.							
	The proper sequ	ence should be :						
	(1) PRSQ	(2) QPSR	(3) QPRS	(4) SQPR				
51.	. What is the full f	orm of WORM?						
	(1) Write Once,							
	(2) Write Over,							
	(3) Write Once,							
	(4) Write Out, R							
52 .								
	(1) 3567		entation (in 4 digits)	of decimal number (896				
		(2) 1600	(3) 1701	(4) 1654				
53.	refers to :							
	(1) Many Signific	•						
	(2) Most Signification	ant Decimal						
	(3) Multiple Sign	ificant Digit						
	(4) Most Significa	ant Digit						
54.	2's complement of -14?							
	(1) 11110001	(2) 10010010	(3) 11100001	(4) 01010110				
55.	Which of the follo	wing is invalid hex	adecimal?					
	(1) 0A23	(2) AB14	(3) XA23	(4) 1234				
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5	6 . <i>V</i>	Which of the following is <i>false</i> ?							
	(1) 2's complement of a 2's complement	of a	number I the number itself.					
	(2	2) Excess-3 code for 369 is 01111001110	00						
	(3	(3) 1-bit gray code has two code words 0 and 1							
	(4	1) In 7-bit hamming code of BCD, locations.	the	parity bits are placed at 1, 2 and 4					
57	. W	That is bootstrapping called?							
	(1) Hot Boot	(2)	Cold Boot					
	(3)) Cold hot strap	(4)	Hot bootstrap					
58.	8. Which of the following is system software?								
	(1)	Operating System	(2)	Utilities					
	(3)	Compiler	(4)	All of the above					
59.	. Which of the following payment card has a microchip embedded in its surface ?								
	(1)	Debit Card	(2)	Credit Card					
	(3)	Metro Card	(4)	Charge Card					
60.	. Which of the following is a condition that causes deadlock?								
	(1)	Circular Wait	(2)	Mutual Exclusion					
	(3)	Hold and Wait	(4)	All of the above					
61.	61. Which among the following OS does <i>not</i> implement multitasking truly?								
	(1)	Windows NT	(2)	Windows 98					
	(3)	Windows XP	(4)	MS DOS					
62.	In c	omputers, subtraction is carried out							
	(1)	1's complement	(2)	9's complement					
	(3)	2's complement	(4)	10's complement					

6	3. Which of the foll	Which of the following is <i>not</i> the weighted code?							
	(1) Decimal nun		(2) Excess-3 code						
	(3) Binary numb	er system	(4) None of the a	bove					
64	4. Cache memory a	cts between :							
	(1) RAM and RC		(2) CPU and RAM	М					
	(3) CPU and Har	d Disk	(4) None						
65	i. 101111 – 010101 =	= ?							
	(1) 100100	(2) 011010	(3) 011001	(4) 110011					
66	. Keyboard shortcu	it for redo :							
	(1) Ctrl +Z	(2) Ctrl+ Y	(3) Ctrl + X	(4) Shift + Y					
67.									
	(1) 11001	(2) 1100	(3) 1001	(4) 0011					
68.	(1) (2)								
	(1) Direct	1 - Improject by	(2) Indirect						
	(3) Immediate		(4) All of the above	7 e					
69.									
	(1) Ctrl + Tab	(2) Alt + Tab	(3) Shift + Tab						
70.	$(10.10) \times (01.01)$	()	(0) 51111 + 140	(4) Fn + Tab					
	(1) 011.0010	(2) 110.0011	(3) 001.1101	(4) None of the above					
71.	On reaching the railway station, you find that the train you wanted to catch is just to start and there is hardly any time for purchasing the ticket. The best thing for you is								
	(1) rush to the train rather than miss it and inform the T.T.I. at the next stop about your inability to purchase the ticket.								
	(2) rush to the train and perform your journey quietly.								

(3) first purchase the ticket and then catch the train if it is there.

(4) miss the train rather than take the risk of boarding the moving train.

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- **72.** Assertion: The problem solving ability, mental performance and memory of the employees of company C are deteriorating.
 - RI. Due to tight schedule at company C, the employees of the company are skipping their breakfast regularly.
 - RII. The job is physical in nature, but not mental.
 - (1) Only RI and not RII is the reason for the assertion.
 - (2) Only RII and not RI is the reason for the assertion.
 - (3) Either RI or RII, but not both, is the reason for the assertion.
 - (4) Neither RI nor RII is the reason for the assertion.
- **73.** Assertion: During polling season, new roads are constructed, there is twenty-four hours of power supply, good supply of water, and many other facilities are provided to the people.
 - RI. Political leaders want to be in the good books of the people.
 - RII. Polling season that is the right time to convert black money to white money in the name of party funds for the industries.
 - (1) Only RI and not RII is the reason for the assertion.
 - (2) Only RII and not RI is the reason for the assertion.
 - (3) Either RI or RII, but not both, is the reason for the assertion.
 - (4) Neither RI nor RII is the reason for the assertion.
- **74.** Statements: All Carrots are birds. Some telephones are Carrots. All bedsheets are telephone.

Conclusion:

- I. All bedsheet are birds
- II. Some bedsheet are birds
- III. Some birds are telephone
- IV. All telephone are birds
- (1) Only I follows

- (2) Only II follows
- (3) Only I and III follows
- (4) Only III follows

Conclusions:

III. No stone is pearl.

(1) Only conclusion I is true

(2) Both conclusion I and III are true

Some stones are pearls.

	ranks 18th in a class of 49 students. What is rank from the last?						
76.							
	(1) 31	(2) 18	(3) 32	(4) 19			
77. How many such digits are there in the number 7346285 which are as far away the beginning of the number, as they will be when arranged in ascending within the number?							
	(1) None	(2) One	(3) Two	(4) Three			
78.	If the day before yesterday was Saturday, what day will fall on the day after tomorrow?						
	(1) Friday	(2) Thursday	(3) Wednesday	(4) Tuesday			
79.	If the digits in the number 25673948 are arranged in ascending order from left to right, what will be the sum of the digits which are fourth from the right and third from the left in the new arrangement?						
	(1) 10	(2) 9	(3) 8	(4) 6			
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75. Statements: Some pearls are gems. All gems are diamonds. No diamond is $sto_{h_{\ell}}$

Some stones are corals.

II. Some corals being diamond is possibility.

80. There are 6 persons A, B, C, D, E and F who have different rank in class test exam.

Person A got last rank in class. E was not first in class test rank. B got more marks than C, but he did not get second rank in class. E got more marks than only A. F was situated between D and B in class test ranking, and B score less than D. The second highest person got 92 marks.

D got which of the following possible marks?

- (1) 89
- (2) 92
- (3) 93
- (4) 88

81. Answer the questions on the basis of the information given below:

Seven varsity basketball players A, B, C, D, E, F and G are to be honoured at a special luncheon. The players will be seated on the dais in a row. A and G have to leave the luncheon early and so must be seated at the extreme right. B will receive the most valuable player's trophy and so much be in the centre to facilitate presentation. C and D are bitter rivals and therefore, must be seated as far apart as possible.

Which of the following pairs cannot be seated together?

(1) B and D

(2) C and F

(3) D and G

(4) E and A

82. Read the text and the statements carefully, and answer the questions.

Four people of different nationalities live on the same side of a street in four houses each of different colors. Each person has a different favorite drink. The following additional information is also known:

- A. The Englishman lives in the red house.
- B. The Italian drink tea.
- C. The Norwegian lives in the first house on the left.
- D. In the second house from the right they drink milk.
- E. The Norwegian lives adjacent to the blue house.
- F. The Spaniard drinks fruit juice.
- G. Tea is drunk in the blue house.
- H. The white house is to the right of the red house.

The Norwegian drinks:

(1) Milk

(2) Cocoa

(3) Tea

(4) Fruit Juice

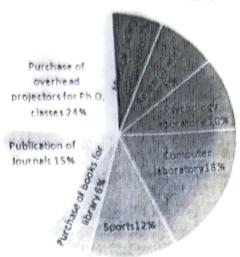
85.

	4 sections of the basis of the mornisms
Ω	A, B, C, D, E and F are a group of friends. There are two house wives, one professor, one engineer, one accountant and one lawyer in the group. There are only two married couples in the group. The lawyer is married to D, who is a housewife. No women in the group are either an engineer or an accountant. C, the accountant, is married to F, who is a professor. A is married to housewife. E is not a housewife. How many members of group are males? (1) 1 (2) 3 (3) 4 (4) Cannot be determined
0	and the last parts of the sentence are numbered 1 & o. The rest of the
	sentence, is split into four parts and named P, Q, R and S. These four parts are not
	given in their proper order.
	Read the sentence and find out which of the four combinations is <i>correct</i> ?
	1. It was obvious
	P. made by him
	Q. submitted at the meeting
	R. from the comments
	S. on the draft proposals
	6. that he was not satisfied with them.
	(1) QRSP (2) SQRP
	(3) RPSQ (4) PSRQ
	In an examination the average marks of Rohit are 63. If he got 20 more marks in Science and 28 more marks in Mathematics, then his average would have been 69. Find the total number of subjects he studied:
	(1) 7 (2) 8 (3) 10 (4) 12

83. Answer the questions on the basis of the information given below:

86. Study the following pie-chart carefully to answer these questions

Total Expenditure: Rs. 60 Lacs



Expenditure of funds by University for various purpose

What is the difference between the expenditure made by university for Publication of Journals and Psychology Laboratory?

- (1) Rs. 4 lacs
- (2) Rs. 3 lacs
- (3) Rs. 4.2 lacs
- (4) Rs. 3.8 lacs
- **87.** Study the following table and answer the questions:

Classification of 100 students based on the marks obtained by them in Physics and Chemistry in an Examination:

Subjects	Marks out of 50				
	40 and above	30 and above	20 and above	10 and above	0 and above
Physics	9	32	80	92	100
Chemistry	4	21	66	81	100
Average (Aggregate)	7	27	73	87	100

What is the difference between the number of students passed with 30 as cut-off marks in Chemistry and those passed with 30 as cut-off marks in aggregate?

(1) 3

- (2) 4
- (3) 5
- (4) 0

88. Answer the questions based on the following information:

A, B, C and D are to be seated in a row. But C and D cannot be together. Also B cannot be at the third place. If A and B are together, then which of the following must be necessarily *true*?

- (1) C is not at the first place
- (2) A is at the third place

(3) D is at the first place

(4) C is at the first place

89. Answer the questions on the basis of the following information:

Four families decided to attend the marriage ceremony of one of their colleagues. One family has no kids, while the others have at least one kid each. Each family with kids has at least one kid attending the marriage.

Given below some information about the families, and who reached when to attend the marriage:

The family with 2 kids came just before the family with no kids.

Shanti who does not have any kids reached just before Sridevi's family. Sunil and his wife reached last with their only kid.

Anil is not the husband of Joya.

Anil and Raj are fathers.

Sridevi's and Anita's daughters go to the same school.

Joya came before Shanti and met Anita when she reached the venue. Raman stays the farthest from the venue.

Raj said his son could not come because of his exams.

Name the correct pair of husband and wife:

- (1) Raj and Shanti
- (2) Sunil and Sridevi
- (3) Anil and Sridevi
- (4) Raj and Anita

Answer the questions on the basis of the information given below:

The seven basic symbols in a certain numeral system and their respective values are as follows:

$$1 = 1$$
, $V = 5$, $X = 10$, $L = 50$, $C = 100$, $D = 500$ and $M = 1000$

In general, the symbols in the numeral system are read from left to right, starting with the symbol representing the largest value; the same symbol cannot occur continuously more than three times; the value of the numeral is the sum of the values of the symbols. For example, XXVII = 10 + 10 + 5 + 1 + 1 = 27. An exception to the left to right reading occurs when a symbol is followed immediately by a symbol of greater value; then, the smaller value is subtracted from the larger.

For example, XLVI = (50 - 10) + 5 + 1 = 46.

The value of the numeral MCMXCIX is:

- (4) 1889 (3) 1989 (2) 1899 (1) 1999
- **91.** If $p \times q = p + q + \frac{p}{q}$, what is the value of 8×2 ?
 - (1) 6If $0.13 \times p^2 = 13$, then *p* is equal to :
 - (2) 0.01 (1) 10
- (3) 0.001

(3) 14

(4) 100

(4) 16

- If $A = \{5, 6\}$ and $B = \{7, 8\}$, then what is the number of relations from A to B? 93.
 - $(1) 2^2$

92.

B

90.

 $(2) 2^3$

(2) 10

- $(3) 2^4$
- $(4) 2^5$
- If $A = \{1, 2, 3, 4, 5, 7, 8, 9\}$ and $B = \{2, 4, 6, 7, 9\}$, then find number of proper subsets of 94. $A \cap B$?
 - (1) 14
- (2) 15
- (3) 32
- (4) 33

- The magnitude of the vector 6i + 2j + 3k: 95.
 - (1) 5
- (2) 6
- (3) 7
- (4) 8

- $(\sin 30^\circ + \cos 30^\circ) (\sin 60^\circ + \cos 60^\circ)$: 96.
 - (1) 0
- (2) 1
- (3) 2
- (4) -1

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P. T. O.

97.	If $x = 7 - 4\sqrt{3}$, then			
	(1) 1	(2) 2	(3) 3	(4) 4

- **98.** The scalar product of 5i + j 3k and 3i 4j + 7k is:
 - (1) 15
- (2) -15
- (3) 10
- (4) -10
- **99.** The angle of elevation of a ladder leaning against a wall is 60° and the foot of the ladder is 4.6 m away from the wall. The length of ladder is :
 - (1) 2.3 m
- (2) 4.6 m
- (3) 7.8 m
- (4) 9.2 m
- **100.** An urn contains 6 red, 4 blue, 2 green and 3 yellow marbles. If two marbles are picked up at random, what is the probability that either both are green or both are yellow?
 - (1) 5/91

(2) 1/3

(3) 4/105

(4) None of the above

Total No. of Printed Pages: 21

(DO NOT OPEN THIS QUESTION BOOKLET BEFORE TIME OR UNTIL YOU

C

PG-EE-June, 2023

SET-X

SUBJECT: Computer Science Group

10551

		01, 110
Time: 11/4 Hours	Max. Marks: 100	Total Questions: 100
Roll No. (in figures)	(in words)	
Name	Date of Birth	
Father's Name	Mother's Name	
Date of Examination		
(Signature of the Candidate)		(Signature of the Invigilator)

CANDIDATES MUST READ THE FOLLOWING INFORMATION/INSTRUCTIONS BEFORE STARTING THE QUESTION PAPER.

- 1. All questions are compulsory.
- 2. The candidates must return the question booklet as well as OMR Answer-Sheet to the Invigilator concerned before leaving the Examination Hall, failing which a case of use of unfairmeans / mis-behaviour will be registered against him / her, in addition to lodging of an FIR with the police. Further the answer-sheet of such a candidate will not be evaluated.
- 3. Keeping in view the transparency of the examination system, carbonless OMR Sheet is provided to the candidate so that a copy of OMR Sheet may be kept by the candidate.
- 4. Question Booklet along with answer key of all the A, B, C & D code shall be got uploaded on the University Website immediately after the conduct of Entrance Examination. Candidates may raise valid objection/complaint if any, with regard to discrepancy in the question booklet/answer key within 24 hours of uploading the same on the University Website. The complaint be sent by the students to the Controller of Examinations by hand or through email. Thereafter, no complaint in any case, will be considered.
- 5. The candidate *must not* do any rough work or writing in the OMR Answer-Sheet. Rough work, if any, may be done in the question booklet itself. Answers *must not* be ticked in the question booklet.
- 6. There will be no negative marking. Each correct answer will be awarded one full mark. Cutting, erasing, overwriting and more than one answer in OMR Answer-Sheet will be treated as incorrect answer.
- 7. Use only Black or Blue Ball Point Pen of good quality in the OMR Answer-Sheet.
- 8. Before answering the questions, the candidates should ensure that they have been supplied correct and complete booklet. Complaints, if any, regarding misprinting etc. will not be entertained 30 minutes after starting of the examination.

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SEAT

- 1. On reaching the railway station, you find that the train you wanted to catch is just to start and there is hardly any time for purchasing the ticket. The best thing for you is to:
 - (1) rush to the train rather than miss it and inform the T.T.I. at the next stoppage about your inability to purchase the ticket.
 - (2) rush to the train and perform your journey quietly.
 - (3) first purchase the ticket and then catch the train if it is there.
 - (4) miss the train rather than take the risk of boarding the moving train.
- Assertion: The problem solving ability, mental performance and memory of the employees of company C are deteriorating.
 - RI. Due to tight schedule at company C, the employees of the company are skipping their breakfast regularly.
 - RII. The job is physical in nature, but not mental.
 - (1) Only RI and not RII is the reason for the assertion.
 - (2) Only RII and not RI is the reason for the assertion.
 - (3) Either RI or RII, but not both, is the reason for the assertion.
 - (4) Neither RI nor RII is the reason for the assertion.
- **3.** Assertion: During polling season, new roads are constructed, there is twenty-four hours of power supply, good supply of water, and many other facilities are provided to the people.
 - RI. Political leaders want to be in the good books of the people.
 - RII. Polling season that is the right time to convert black money to white money in the name of party funds for the industries.
 - (1) Only RI and not RII is the reason for the assertion.
 - (2) Only RII and not RI is the reason for the assertion.
 - (3) Either RI or RII, but not both, is the reason for the assertion.
 - (4) Neither RI nor RII is the reason for the assertion.

No. of the last of	Conclusion:			
	I. All bedshee	t are birds	100	man of or fleet (ii)
	II. Some bedsh	eet are birds		
1	III. Some birds	are telephone		
1	IV. All telephon	e are birds	Autor 9	
(1) Only I follow	vs	(2) Only II follow	'S
(3) Only I and I	II follows	(4) Only III follow	vs
5. <i>S</i>		me pearls are gems. A	All gems are diamo	nds. No diamond is stone.
C	Conclusions:			
I.	Some stones	are pearls.		simply to the second
П	. Some corals h	peing diamond is poss	sibility.	Selberta (1971)
Ш	I. No stone is po	earl.		
(1)	Only conclusi	on I is true		
(2)	Both conclusion	on I and III are true		
(3)	Either conclus	sion I or II is true		. 190 A 150 (190 A)
(4)	None of the al	oove	of didn't word of	
6. Nit	in ranks 18th ir	a class of 49 student	s. What is rank from	the last?
(1)	31	(2) 18	(3) 32	(4) 19
the	w many such d beginning of the	the number, as they	number 7346285 w will be when arra	hich are as far away from anged in ascending order
(1)	None	(2) One	(3) Two	(4) Three
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4. Statements: All Carrots are birds. Some telephones are Carrots. All bedsheets are

telephone.

P. T. O

9.	right, what will		e digits which are	n ascending order fro fourth from the right				
	(1) 10	(2) 9	(3) 8	(4) 6				
0.	There are 6 person	ons A, B, C, D, E a	nd F who have diffe	erent rank in class test	exam.			
	than C, but he d situated between	Person A got last rank in class. E was not first in class test rank. B got more marks than C, but he did not get second rank in class. E got more marks than only A. F was situated between D and B in class test ranking, and B score less than D. The second highest person got 92 marks.						
	D got which of the following possible marks?							
	(1) 89	(2) 92	(3) 93	(4) 88				
1.	Answer the questions on the basis of the information given below:							
	Seven varsity basketball players A, B, C, D, E, F and G are to be honoured at a special luncheon. The players will be seated on the dais in a row. A and G have to leave the luncheon early and so must be seated at the extreme right. B will receive the most valuable player's trophy and so much be in the centre to facilitate presentation. C and D are bitter rivals and therefore, must be seated as far apart as possible. Which of the following pairs cannot be seated together?							
	(1) B and D		(2) C and 1	F				
	(3) D and G		(4) E and 2	A				

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8. If the day before yesterday was Saturday, what day will fall on the day after

(2) Thursday

(4) Tuesday

C

tomorrow?

(1) Friday

(3) Wednesday

12. Read the text and the statements carefully, and answer the questions .

Four people of different nationalities live on the same side of a street in four houses each of different colors. Each person has a different favorite drink. The following additional information is also known:

- A. The Englishman lives in the red house.
- B. The Italian drink tea.
- C. The Norwegian lives in the first house on the left.
- D. In the second house from the right they drink milk.
- E. The Norwegian lives adjacent to the blue house.
- F. The Spaniard drinks fruit juice.
- G. Tea is drunk in the blue house.
- H. The white house is to the right of the red house.

The Norwegian drinks:

- (1) Milk
- (2) Cocoa
- (3) Tea
- (4) Fruit Juice

13. Answer the questions on the basis of the information given below:

A, B, C, D, E and F are a group of friends. There are two house wives, one professor, one engineer, one accountant and one lawyer in the group. There are only two married couples in the group. The lawyer is married to D, who is a housewife. No women in the group are either an engineer or an accountant. C, the accountant, is married to F, who is a professor. A is married to housewife. E is not a housewife.

How many members of group are males?

- (1) 1
- (2) 3
- (3) 4
- (4) Cannot be determined

14. The first and the last parts of the sentence are numbered 1 & 6. The rest of the sentence, is split into four parts and named P, Q, R and S. These four parts are not given in their proper order.

Read the sentence and find out which of the four combinations is correct?

- 1. It was obvious
- P. made by him
- Q. submitted at the meeting
- R. from the comments
- S. on the draft proposals
- 6. that he was not satisfied with them.
- (1) QRSP

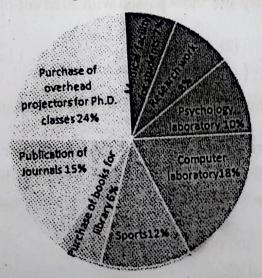
(2) SQRP

(3) RPSQ

(4) PSRQ

- **15.** In an examination the average marks of Rohit are 63. If he got 20 more marks in Science and 28 more marks in Mathematics, then his average would have been 69. Find the total number of subjects he studied:
 - (1) 7
- (2) 8
- (3) 10
- (4) 12
- **16.** Study the following pie-chart carefully to answer these questions:

Total Expenditure: Rs. 60 Lacs



Expenditure of funds by University for various purpose

What is the difference between the expenditure made by university for Publication of Journals and Psychology Laboratory?

- (1) Rs. 4 lacs
- (2) Rs. 3 lacs
- (3) Rs. 4.2 lacs
- (4) Rs. 3.8 lacs

17. Study the following table and answer the questions:

Classification of 100 students based on the marks obtained by them in Physics and Chemistry in an Examination:

Subjects		Marks out of 50				
	40 and above	30 and above	20 and above	10 and above	() and above	
Physics	9	32	80	92	100	
Chemistry	4	21	66	81	100	
Average (Aggregate)	7	27.	73	87	100	

What is the difference between the number of students passed with 30 as cut-off marks in Chemistry and those passed with 30 as cut-off marks in aggregate?

(1) 3

(2) 4

(3) 5

(4) 6

18. Answer the questions based on the following information:

A, B, C and D are to be seated in a row. But C and D cannot be together. Also B cannot be at the third place. If A and B are together, then which of the following must be necessarily *true*?

- (1) C is not at the first place
- (2) A is at the third place
- (3) D is at the first place
- (4) C is at the first place

19. Answer the questions on the basis of the following information:

Four families decided to attend the marriage ceremony of one of their colleagues. One family has no kids, while the others have at least one kid each. Each family with kids has at least one kid attending the marriage.

Given below some information about the families, and who reached when to attend the marriage:

The family with 2 kids came just before the family with no kids.

Shanti who does not have any kids reached just before Sridevi's family. Sunil and his wife reached last with their only kid.

Anil is not the husband of Joya.

Anil and Raj are fathers.

Sridevi's and Anita's daughters go to the same school.

Joya came before Shanti and met Anita when she reached the venue. Raman stays the farthest from the venue.

Raj said his son could not come because of his exams.

Name the correct pair of husband and wife:

- (1) Raj and Shanti
- (2) Sunil and Sridevi
- (3) Anil and Sridevi
- (4) Raj and Anita

20. Answer the questions on the basis of the information given below:

The seven basic symbols in a certain numeral system and their respective values are as follows:

$$I = 1$$
, $V = 5$, $X = 10$, $L = 50$, $C = 100$, $D = 500$ and $M = 1000$

In general, the symbols in the numeral system are read from left to right, starting with the symbol representing the largest value; the same symbol cannot occur continuously more than three times; the value of the numeral is the sum of the values of the symbols. For example, XXVII = 10 + 10 + 5 + 1 + 1 = 27. An exception to the left to right reading occurs when a symbol is followed immediately by a symbol of greater value; then, the smaller value is subtracted from the larger.

For example, XLVI = (50 - 10) + 5 + 1 = 46.

The value of the numeral MCMXCIX is:

- (1) 1999
- (2) 1899
- (3) 1989
- (4) 1889

(1) 6

21. If $p \times q = p + q + \frac{p}{q}$, what is the value of 8×2 ?

(2) 10

(4) 16

2	2. If $0.13 \times p^2 = 13$,	then p is equal to :		
	(1) 10	(2) 0.01	(3) 0.001	(4) 100
2	3. If $A = \{5, 6\}$ and B	= {7, 8}, then what is	the number of relatio	ns from A to B ?
	$(1) 2^2$	(2) 2^3	(3) 24	(4) 2 ⁵
24	1. If $A = \{1, 2, 3, 4, 5, A \cap B \}$?	$, 7, 8, 9 $ and $B = \{2, 4, 4, 6, 6, 10, 10, 10, 10, 10, 10, 10, 10, 10, 10$, 6, 7, 9}, then find nu	amber of proper subsets of
	(1) 14	(2) 15	(3) 32	(4) 33
25	. The magnitude of	the vector $6i + 2j + 3k$		
	(1) 5	(2) 6	(3) 7	(4) 8
26	$(\sin 30^{\circ} + \cos 30^{\circ}) -$	$-(\sin 60^{\circ} + \cos 60^{\circ})$:		Section 19 Contract C
	(1) 0		(3) 2	(4) -1
27.	If $x = 7 - 4\sqrt{3}$, the	n what is the value of	$f\sqrt{x} + \frac{1}{\sqrt{x}}?$	
	(1) 1	(2) 2	(3) 3	(4) 4
28.	The scalar product	of $5i + j - 3k$ and $3i - 3k$	-4j + 7k is:	
	(1) 15	(2) -15	(3) 10	(4) -10
29.		ation of a ladder lea ay from the wall. The		is 60° and the foot of the
	(1) 2.3 m	(2) 4.6 m	(3) 7.8 m	(4) 9.2 m
30.	An urn contains 6 picked up at rando yellow?	red, 4 blue, 2 gree om, what is the pro	en and 3 yellow m bability that either	arbles. If two marbles are both are green or both are
	(1) 5/91		(2) 1/3	
	(3) 4/105	Part Part Part	(4) None of the al	bove
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(3) 14

31.	Fill in the blank:					
	The river Thames flows London.					
	(1) through (2) on (3) over (4) in					
32.	In the following choose the one which best express the meaning of the idiom/phrase:					
	Talk through one's hat					
	(1) To talk secretly (2) Talk positively					
	(3) Talk good points (4) Talk nonsense					
33.	Choose the word which best expresses the meaning of the given word: VENT					
	(1) End (2) Storage					
	(3) Opening (4) Past tense of Go					
34.	My father's dealings are open and above board.					
	(1) Mandatory (2) Without any secret					
	(3) Very clear (4) To everyone's liking					
35.	the first word.					
	COMBAT					
	(1) Conflict (2) Quarrel (3) Feud (4) Fight					
36.	Read the passage and choose most relevant answer:					
	Erosion of America's farmland by wind and water has been a problem since settlers first put the prairies and grasslands under the plow in the nineteenth century. By the 1930s, more than 282 million acres of farmland were damaged by erosion. After 40 years of conservation efforts, soil erosion has accelerated due to new demands placed on the land by heavy crop production. In the years ahead, soil erosion and the pollution problems it causes are likely to replace petroleum scarcity as the nation's most critical natural resource problem.					
	As we understand from the reading, today, soil erosion in America					
	(1) is worse than it was in the nineteenth century					
	(2) is the most critical problem that the nation faces					
	(3) causes humans to place new demands on the land					
	(4) is worse in areas which have a lot of petroleum production					

0	
37	7. In the following question, a sentence has been broken into parts and the parts have been scrambled and numbered. Choose the <i>correct</i> order of these parts from the given alternatives.
	I. In a masterly way
	II. Munshi Premchands works, especially fiction
	III. Have been analysed and critiqued
	IV. In the next chapter
	(1) II III I IV (2) III II I IV (3) IV II III I (4) I II III IV
38.	Fill in the blank with the most appropriate word from the options given below:
	A good driver will be very careful before carrying out a complex
	(1) Movement (2) Manoeuvre (3) Motion (4) Movement
19.	S1: A noise started above their heads. P: But people did not take it seriously. Q: It was to show everyone that there was something wrong. R: It was a dangerous thing to do. S: For, within minutes the ship began to sink. S6: Nearly 200 lives were lost on the fateful day. The proper sequence should be: (1) PQSR (2) PRQS (3) QPRS (4) QPSR
0.	S1: She said on the phone that she would report for duty next day.
	P: We waited for few days then we decided to go to her place.
	Q: But she did not.
	R: We found it locked.
	S: Even after that we waited for her quite a few days.
	S6: Eventually we reported to the Police.
	The proper sequence should be:
	(1) PRSQ (2) QPSR (3) QPRS (4) SQPR

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		- 1
41.	What is the full form of WORM?	
	(1) Write Once, Read More	
	(2) Write Over, Read Mode	
	(3) Write Once, Read Many	
	(4) Write Out, Read Many	
42.	What of the following is octal representation (in 4 digits) of decimal number (896)?	
	(1) 3567 (2) 1600 (3) 1701 (4) 1654	
43.	MSD refers to ?	
	(1) Many Significant Digit	
	(2) Most Significant Decimal	
	(3) Multiple Significant Digit	
	(4) Most Significant Digit	
44.	2's complement of -14?	
	(1) 11110001 (2) 10010010 (3) 11100001 (4) 01010110	
45 .	Which of the following is invalid hexadecimal?	
	(1) 0A23 (2) AB14 (3) XA23 (4) 1234	
16.	Which of the following is false?	
	(1) 2's complement of a 2's complement of a number I the number itself.	
	(2) Excess-3 code for 369 is 011110011100	
	(3) 1-bit gray code has two code words 0 and 1	
	(4) In 7-bit hamming code of BCD, the parity bits are placed at 1, 2 and locations.	i

47. What is bootstrapping called?

(1) Hot Boot

	(3) Cold hot strap	(4) Hot bootst	Тар			
48.	Which of the following is system sof	tware?				
	(1) Operating System	(2) Utilities				
	(3) Compiler	(4) All of the	above			
49.	Which of the following payment card has a microchip embedded in its surface?					
	(1) Debit Card	(2) Credit Car	rd			
	(3) Metro Card	(4) Charge Ca	ard			
50.	Which of the following is a condition	n that causes deadl	ock?			
	(1) Circular Wait	(2) Mutual Ex				
	(3) Hold and Wait	(4) All of the	above			
51.	Aman is 16th from the left end in a row of boys and Vivek is 18th from the right end. Gagan is 11th from Aman towards the right and 3rd from Vivek towards the right end. How many boys are there in the row?					
	(1) 40 (2) 48	(3) 42	(4) 41			
52.	How many 7's are there in the follow by 3 but immediately preceded by 8		n are not immediate	ly followed		
	898762263269732872778	737794				
	(1) 10 (2) 3	(3) 2	(4) 0			
53.	Manisha ranked sixteenth from the those who passed an examination. Strive failed in it. How many boys we	Six boys did not pa	articipate in the com	ttom amon		
	(1) 40 (2) 48	(3) 55	(4) 58			

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(2) Cold Boot

54.	In a list, the rank of Mahesh was 16 from the top and whereas from bottom, the rank
	is 29. The list was about the passed-out students. Six students were failed due to non-
	participation and 5 were failed. Find the total number of students present in the class

- (1) 55
- (2) 54
- (3) 53
- (4) 52

55. If
$$\times$$
 means \div , – means \times , \div means + and + means –, then $(3 - 15 + 19) \times 8 + 6 = ?$

- (1) 2
- (2) -1
- (3) 4
- (4) 8
- **56.** A sum of Rs.1 890 has to be used to give 9 prizes to the customers of a super market for their overall academic purchases. If each prize is Rs. 30 less than its preceding price, what is the least value of the price?
 - (1) 80
- (2) 85
- (3) 90
- (4) 95
- **57.** If "A" denotes "subtracted from", "B" denotes "added to", "C" denotes "divided by", "D" denotes "multiplied by", then which of the following statement is **correct**?
 - (1) 13C13A13B13D13 = 157
 - (2) 18C16D49A27B9 = 200
 - (3) 3A12B16D17Cl = 163
 - (4) 5C7A9D8B2 = 294
- **58.** *Statement*: Should children be legally made responsible to take care of their parents during their old age?

Arguments:

- I. Yes. Such matter can only be solved by legal means.
- II. Yes. Only this will bring some relief to poor parents.
- (1) Only Argument I is strong
- (2) Only Argument II is strong
- (3) Either I or II is strong
- (4) Neither I nor II is strong

Arguments:

- I. Yes. Fashions keep changing and hence consumption of cloth increases.
- II. No. Fashionable clothes are a person's self-expression and therefore his/her fundamental right.
- (1) Only Argument I is strong
- (2) Only Argument II is strong
- (3) Either I or II is strong
- (4) Neither I nor II is strong
- **60. Statement**: Should 'computer knowledge' be made a compulsory subject for all the students at secondary school level?

Arguments:

- I. No, our need is 'bread' for everyone, we cannot follow western models.
- II. Yes. We cannot compete in the international market without equipping our children with computers.
- (1) Only Argument I is strong
- (2) Only Argument II is strong
- (3) Either I or II is strong
- (4) Neither I nor II is strong
- 61. A user can get files from another computer on the Internet by using:
 - (1) TELNET
- (2) HTTP
- (3) FTP
- (4) UTP
- 62. Transport layer is at which level in TCP/ IP model?
 - (1) 1
- (2) 2
- (3) 3
- (4) 4
- **63.** Which tag is used for displaying large font size?
 - (1) <BIG></BIG>

(2) <LARGE></LARGE>

(3) <SIZE></SIZE>

(4)

PG-EE-June, 2023/(Computer Science Group)(SET-X)/(C)

64.	Which among the following language is better for structured coding?
	(1) BASIC (2) PASCAL (3) FORTAN (4) PL/1
65.	What type of scheduling is round-robin scheduling?
	(1) Linear Data Scheduling
	(2) Preemptive Scheduling
	(3) Non-linear data scheduling
	(4) Non-Preemptive Scheduling
66.	
	(1) Multiprogramming (2) Multithreading
	(3) Multitasking (4) None of the above
67.	Which html tag is used to scroll text in a Web Page?
	(1) <scroll></scroll>
	(2) <round></round>
	(3) <marquee></marquee>
	(4) <go></go>
68.	is single sequential flow of control in a program.
	(1) Process (2) Task (3) Thread (4) Structure
69.	Which among the following is the property of Unix OS?
	(1) Multi-user (2) Time Sharing
	(3) Multi-tasking (4) All of the above
70	Which of the following is <i>not</i> a paired tag?
70.	(1) (2) <u> (3) (4)</u>

		11 (
71.	Which among the following OS does no	
	(1) Windows NT	(2) Windows 98
	(3) Windows XP	(4) MS DOS
72.	In computers, subtraction is carried ou	t by:
	(1) 1's complement	(2) 9's complement
	(3) 2's complement	(4) 10's complement
73.	Which of the following is <i>not</i> the weig	hted code?
	(1) Decimal number system	(2) Excess-3 code
	(3) Binary number system	(4) None of the above
74.	Cache memory acts between:	Maintenage and American
	(1) RAM and ROM	(2) CPU and RAM
	(3) CPU and Hard Disk	(4) None
75.	101111 - 010101 = ?	estrolla- etloriza
	(1) 100100 (2) 011010	(3) 011001 (4) 110011
76.	Keyboard shortcut for redo:	A Symptom of Principles
	(1) Ctrl +Z (2) Ctrl+ Y	(3) Ctrl + X (4) Shift + Y
77.	1101 + 1100 in binary arithmetic?	bigger to plant fathering as the pais as a second
	(1) 11001 (2) 1100	(3) 1001 (4) 0011
78.	The address technique employed by	a CPU is:
	(1) Direct	(2) Indirect
	(3) Immediate	(4) All of the above
79	. Keys to switch between application	s running in Windows OS :
	(1) Ctrl + Tab	(2) Alt + Tab
	(3) Shift + Tab	(4) Fn + Tab

PG-EE-June, 2023/(Computer Science Group)(SET-X)/(C)

						1
80.	$(10.10) \times (01.01)$	and the spinding		igalli mon astr	Light Service and Complete . 100	
	(1) 011.0010		(2)	110.0011		
	(3) 001.1101		(4)	None of the abo	ove	
81.	Choose missing pattern					
	QPO, NML, KJI, -, EDO					
	(1) HGF (2)	CAB	(3)	JKM	(4) GHD	
82.	Choose the correct relati	ion similar to fo	llow	ing:		
	FISH: SCHOOL					
	(1) Herd : Peacock		(2)	Wolf : Pack		
	(3) Cow: Farm	-0-101	dor			
				Elephant: Jung		
83. Find the minimum number of straight lines required to make the gi		e the given figure :				
			1		Austrar Figure	
		E E	区	内		
	(1) 15 (2)	01	<u></u>			
		21		18	(4) 20	
84.	Find the minimum nur	nber of straight l	lines	in the below fig	ure:	
		M	1	VV		
		W. W.	7			
	(1) 20 (2)	10	(2)	17		
		19		17	(4) 15	
85.	Vineet is taller than R taller than Sumit but sh	aman but shorte norter than Rama	er th an. V	an Jyoti. Sumit Vho is the tallest	is the shortest. Deepal ?	κi
	(1) Jyoti		(2)	Raman		
	(3) Vineet		(4)	Deepak		

86. Select the missing letter from the given options:

OCICO I		
В	J	IUD
E	K	В
G	U	?

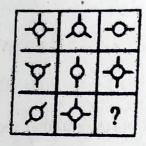
(1) O

(2) M

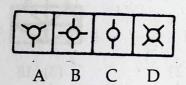
(3) K

(4) P

87. Select the Answer figure that fits in the blank space in the given Problem figure : **Problem Figure**



Answer Figures:



(1) D

(2) C

(3) B

(4) A

88. Select the option that depicts the correct mirror image of the given word when the mirror is placed horizontally below the word :

HEALTHY

1. HEALTHY

2. YHTLA3H

HEALTHY .E

4. YHTLAEH

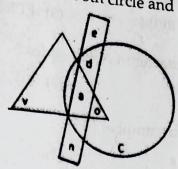
(1) 1

(2) 2

(3) 3

(4) 4

Which of the following part is a part of both circle and triangle?



(1) e

(2) v

(3) o

(4) c

The proportion of male students and the proportion of vegetarian students in a school 90. are given below. The school has a total of 800 students, 80% of whom are in the secondary section and rest equally divided between class 11 and 12:

What is the percentage of vegetarian student in class 11?

	stadent in class 11 ?		
	Male (M)	Vegetarian (V)	
Class 12	0.60	0.54	
Class 11	0.55	0.50	
Secondary Section	0.275 (288)	0.55(352)	
Total	0.475	0.53	

(1) 40

(2) 45

(3) 60

(4) 65

91. Which of the following is the computer system's hardware component?

(1) **RAM**

(2) Keyboard

(3) Adobe Reader

(4) ROM

How many bits are there in 1 nibble?

(1) 4

(2) 8

(3) 16

(4) 24

93. What is the full form of USB?

(1) Universal Sequential Bus

(2) Unique Serial Bus

(3) Universal Serial Bus

(4) Unique Sequential Bus

9	4. What one of th	e following is volat	tile memory?	nnOM
	(1) RAM	(2) ROM	(3) EPROM	(4) PROM
95	5. What is the len	gth of character in	ASCII codes?	
	(1) 4	(2) 8	(3) 7	(4) 6
96	. What is the val	ue of binary numbe	er 011 ?	
	(1) 2	(2) 4	(3) 3	(4) 7
97	. Which of the fo	llowing is true?		
		s equal to 1024 kild	obyte	
	(2) Decimal nu	mber system canno	ot contain binary digits	
	(3) Hexadecim	al system have 16 b	oits	
	(4) None	· · · · · · · · · · · · · · · · · · ·	Cast Handate of Cast	
98.	What is the octa	l representation of	(011101) ?	
	(1) 35	(2) 45	(3) 34	(4) 54
99.	Which is the larg	gest unit of storage	?	non-x you
	(1) Kb	(2) Mb	(3) Zb	(4) Yb
00.	How many value	es can be represen	ted by one byte?	
	(1) 512	(2) 64	(3) 256	(4) 8

Total No. of Printed Pages: 21

(DO NOT OPEN THIS QUESTION BOOKLET BEFORE TIME OR UNTIL YOU ARE ASKED TO DO SO)

D

PG-EE-June, 2023

SET-X

10552

SUBJECT: Computer Science Group

		Sr. No	
Time: 1¼ Hours Roll No. (in figures)	Max. Marks : 100 (in words)	Total Questions : 100	
Name	Date of Birth		
Father's Name	Mother's Name		
Date of Examination			
(Signature of the Candidate)		(Signature of the Invigilator)	

CANDIDATES MUST READ THE FOLLOWING INFORMATION/INSTRUCTIONS BEFORE STARTING THE QUESTION PAPER.

- 1. All questions are compulsory.
- 2. The candidates *must return* the question booklet as well as OMR Answer-Sheet to the Invigilate concerned before leaving the Examination Hall, failing which a case of use of unfairmeans / mis-behaviour will be registered against him / her, in addition to lodging of an FIR with the police. Further the answer-sheet of such a candidate will not be evaluated.
- 3. Keeping in view the transparency of the examination system, carbonless OMR Sheet is provided to the candidate so that a copy of OMR Sheet may be kept by the candidate.
- 4. Question Booklet along with answer key of all the A, B, C & D code shall be got uploaded on the University Website immediately after the conduct of Entrance Examination. Candidates may raise valid objection/complaint if any, with regard to discrepancy in the question booklet/answer key within 24 hours of uploading the same on the University Website. The complaint be sent by the students to the Controller of Examinations by hand or through email. Thereafter, no complaint in any case, will be considered.
- 5. The candidate *must not* do any rough work or writing in the OMR Answer-Sheet. Rough work, if any, may be done in the question booklet itself. Answers *must not* be ticked in the question booklet.
- 6. There will be no negative marking. Each correct answer will be awarded one full mark. Cutting, erasing, overwriting and more than one answer in OMR Answer-Sheet will be treated as incorrect answer.
- 7. Use only Black or Blue Ball Point Pen of good quality in the OMR Answer-Sheet.
- 8. Before answering the questions, the candidates should ensure that they have been supplied correct and complete booklet. Complaints, if any, regarding misprinting etc. will not be entertained 30 minutes after starting of the examination.

PG-EE-June, 2023/(Computer Science Group)(SET-X)/(D)

1. Choose missing pattern:

QPO, NML, KJI, -, EDC

- (1) HGF
- (2) CAB
- (3) JKM
- (4) GHD

2. Choose the *correct* relation similar to following:

FISH: SCHOOL

(1) Herd: Peacock

(2) Wolf: Pack

(3) Cow: Farm

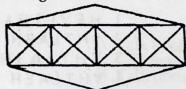
(4) Elephant: Jungle

3. Find the minimum number of straight lines required to make the given figure:



- (1) 15
- (2) 21
- (3) 18
- (4) 20

4. Find the minimum number of straight lines in the below figure:



- $(1) \cdot 20$
- (2) 19
- (3) 17
- (4) 15

5. Vineet is taller than Raman but shorter than Jyoti. Sumit is the shortest. Deepak is taller than Sumit but shorter than Raman. Who is the tallest?

- (1) Jyoti
- (2) Raman
- (3) Vineet
- (4) Deepak

6. Select the missing letter from the given options:

В	J	I
E	K	В
G	U	. ?

(1) O

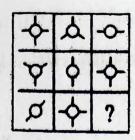
- (2) M
- (3) K

(4) P

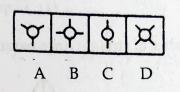
PG-EE-June, 2023/(Computer Science Group)(SET-X)/(D)

P. T. O.

7. Select the Answer figure that fits in the blank space in the given Problem figure : Problem Figure



Answer Figures:

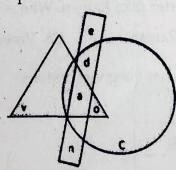


- (1) D
- (2) C
- (3) B
- (4) A
- **8.** Select the option that depicts the correct mirror image of the given word when the mirror is placed horizontally below the word:

HEALTHY

- 1. HEALTHY
- 2. YHTLA3H
- HEALTHY .E
- 4. YHTLAEH

- (1) 1
- (2) 2
- (3) 3
- (4) 4
- 9. Which of the following part is a part of both circle and triangle?



(1) e

(2) v

(3) o

(4) c

PG-EE-June, 2023/(Computer Science Group)(SET-X)/(D)

10. The proportion of male students and the proportion of vegetarian students in a school are given below. The school has a total of 800 students, 80% of whom are in the secondary section and rest equally divided between class 11 and 12:

What is the percentage of vegetarian student in class 11?

	Male (M)	Vegetarian (V)
Class 12	0.60	0.54
Class 11	0.55	0.50
Secondary Section	0.275 (288)	0.55(352)
Total	0.475	0.53

111	10
(1)	40

(2)	45
(/)	47
\ /	10

(4) 65

1	1		F	ill	in	the	bl	an	k	
		•	-				-		••	

The river Thames flows London.

- (1) through
- (2) on
- (3) over
- (4) in

12. In the following choose the one which best express the meaning of the idiom/phrase:

Talk through one's hat

(1) To talk secretly

(2) Talk positively

(3) Talk good points

(4) Talk nonsense

13. Choose the word which best expresses the meaning of the given word:

VENT

(1) End

(2) Storage

(3) Opening

- (4) Past tense of Go
- 14. My father's dealings are open and above board.
 - (1) Mandatory

(2) Without any secret

(3) Very clear

(4) To everyone's liking

15. Choose the word which best expresses the meaning of the given word:

COMBAT

- (1) Conflict
- (2) Quarrel
- (3) Feud
- (4) Fight

16. Read the passage and choose most relevant answer:

Erosion of America's farmland by wind and water has been a problem since settlers first put the prairies and grasslands under the plow in the nineteenth century. By the 1930s, more than 282 million acres of farmland were damaged by erosion. After 40 years of conservation efforts, soil erosion has accelerated due to new demands placed on the land by heavy crop production. In the years ahead, soil erosion and the pollution problems it causes are likely to replace petroleum scarcity as the nation's most critical natural resource problem.

As we understand from the reading, today, soil erosion in America

- (1) is worse than it was in the nineteenth century
- (2) is the most critical problem that the nation faces
- (3) causes humans to place new demands on the land
- (4) is worse in areas which have a lot of petroleum production
- 17. In the following question, a sentence has been broken into parts and the parts have been scrambled and numbered. Choose the correct order of these parts from the given alternatives.
 - I. In a masterly way
 - II. Munshi Premchands works, especially fiction
 - III. Have been analysed and critiqued
 - IV. In the next chapter
 - (1) II III I IV

(2) III II I IV

(3) IV II III I

- (4) I II III IV
- 18. Fill in the blank with the most appropriate word from the options given below:

A good driver will be very careful before carrying out a complex

(1) Movement

(2) Manoeuvre

(3) Motion

(4) Movement

19.	S1 : A noise started	above their heads.	ogovansi gdredave				
	P: But people did not take it seriously.						
	Q: It was to show everyone that there was something wrong.						
	R: It was a dangerous thing to do.						
S : For, within minutes the ship began to sink.							
	S6: Nearly 200 live	s were lost on the fat	eful day.				
	The proper sequence		galabana i				
	(1) PQSR	(2) PRQS	(3) QPRS	(4) QPSR			
20.	S1: She said on the phone that she would report for duty next day.						
	P: We waited for few days then we decided to go to her place.						
	Q : But she did not.	Surfassion (S)	Auto	imatgorqua.			
	R : We found it locked.						
	S: Even after that we waited for her quite a few days.						
	S6: Eventually we reported to the Police.						
	The proper sequence		(a) OPPG	(4) COPP			
	(1) PRSQ	(2) QPSR	(3) QPRS	(4) SQPR			
21.	A user can get files from another computer on the Internet by using:						
	(1) TELNET	(2) HTTP	(3) FTP	(4) UTP			
		STATE OF THE PARTY	/ IP model ?				
22.	Transport layer is a	t which level in TCP	/ II model:				
	(1) 1	(2) 2	(3) 3	(4) 4			
23.	Which tag is used for displaying large font size?						
	(1) <big></big>	riode an in the 31	•				
	(2) <large><th>ARGE></th><th></th><th></th></large>	ARGE>					
	(2) <large></large> (3) <size></size>						
	(4) <th></th><th></th><th></th>						
	(-)	A STATE OF THE PARTY OF THE PAR					

2	4. Which among the following lan	guage is better for structured coding?					
	(1) BASIC (2) PASCA						
25	. What type of scheduling is rour	id-robin scheduling?					
	(1) Linear Data Scheduling						
	(2) Preemptive Scheduling						
	(3) Non-linear data scheduling						
	(4) Non-Preemptive Scheduling						
26.	ability to switch from one task to	program to be ready for execution and provides to another.					
	(1) Multiprogramming	(2) Multithreading					
	(3) Multitasking	(4) None of the above					
27.	27. Which html tag is used to scroll text in a Web Page?						
	(1) <scroll></scroll>	The solution of the contract o					
	(2) <round></round>						
	(3) <marquee></marquee>						
	(4) <go></go>						
28.	is single sequential flow	v of control in a program.					
	(1) Process (2) Task	(3) Thread (4) Structure					
29.	Which among the following is th	e property of Unix OS ?					
	(1) Multi-user	(2) Time Sharing					
	(3) Multi-tasking	(4) All of the above					
30.	Which of the following is <i>not</i> a part and a	aired tag?					
	(1) (2) <u></u>	(3) (4)					

31	. Which of the follo	owing is the compu	iter system's hardward	e component ?			
	(1) RAM		(2) Keyboard				
	(3) Adobe Reade	r	(4) ROM				
32	. How many bits ar	re there in 1 nibble	?				
	(1) 4	(2) 8	(3) 16	(4) 24			
33.	What is the full fo	rm of USB?	. I describe the				
	(1) Universal Seq	uential Bus	(2) Unique Seria	1 Bus			
	(3) Universal Seri	ial Bus	(4) Unique Sequ				
34.	What one of the following is volatile memory?						
	(1) RAM	(2) ROM	(3) EPROM	(4) PROM			
25			desired and all the second	(1) 1110111			
3 3.	What is the length			(4)			
	(1) 4	(2) 8	(3) 7	(4) 6			
36.	What is the value	of binary number (011?				
	(1) 2	(2) 4	(3) 3	(4) 7			
37.	Which of the follow	wing is true?	an considerate art for				
	(1) 1 gigabyte is equal to 1024 kilobyte						
			contain binary digits				
	(3) Hexadecimal s	system have 16 bits					
	(4) None	e redi - eine	e A theath & and A of				
88.	What is the octal re	epresentation of (0		404			
	(1) 35	(2) 45	(3) 34	(4) 54			
19.	9. Which is the largest unit of storage?						
	(1) Kb	(2) Mb	(3) Zb	(4) Yb			
			l by one byte ?				
0.	How many values			(4) 8			
	(1) 512	(2) 64	(3) 256	(1)			

P

(1) 40

42.	How many 7's are there in the following series which are not immediately followed by 3 but immediately preceded by 8?						
	898762263	326973287277	8737794	Tanadayas beamind a			
	(1) 10	(2) 3	(3) 2	(4) 0			
43.	those who pas	ssed an examination		ninth from the botton articipate in the compet s?			
	(1) 40	(2) 48	(3) 55	(4) 58	iw as		
44.	In a list, the rank of Mahesh was 16 from the top and whereas from bottom, the rank is 29. The list was about the passed-out students. Six students were failed due to non participation and 5 were failed. Find the total number of students present in the class.						
	(1) 55	(2) 54	(3) 53	(4) 52			
45.	If × means ÷, –	- means ×, ÷ means	+ and + means –, th	en (3 – 15 ÷ 19) × 8 + 6	=?		
	(1) 2	(2) -1	(3) 4	(4) 8			
46.	for their overa	890 has to be used all academic purch the least value of th (2) 85	ases. If each prize	the customers of a sur is Rs. 30 less than its	iper market s preceding		
C-FF	Tuna 2002//C			(-)			
O-LL	-june, 2023/(Co	mputer Science C	POUR (CET V)//D)				

41. Aman is 16th from the left end in a row of boys and Vivek is 18th from the right end.

end. How many boys are there in the row?

(2) 48

Gagan is 11th from Aman towards the right and 3rd from Vivek towards the right

(3) 42

(4) 41

- **47.** If "A" denotes "subtracted from", "B" denotes "added to", "C" denotes "divided by", "D" denotes "multiplied by", then which of the following statement is *correct*?
 - (1) 13C13A13B13D13 = 157
 - (2) 18C16D49A27B9 = 200
 - (3) 3A12B16D17C1 = 163
 - (4) 5C7A9D8B2 = 294
- **48.** Statement: Should children be legally made responsible to take care of their parents during their old age?

Arguments:

D

- I. Yes. Such matter can only be solved by legal means.
- II. Yes. Only this will bring some relief to poor parents.
- (1) Only Argument I is strong
- (2) Only Argument II is strong
- (3) Either I or II is strong
- (4) Neither I nor II is strong
- 49. Statement: Should fashionable dresses be banned?

Arguments:

- I. Yes. Fashions keep changing and hence consumption of cloth increases.
- II. No. Fashionable clothes are a person's self-expression and therefore his/her fundamental right.
- (1) Only Argument I is strong
- (2) Only Argument II is strong
- (3) Either I or II is strong
- (4) Neither I nor II is strong

50. Statement: Should 'computer knowledge' be made a compulsory subject for all the students at secondary school level?

Arguments:

- I. No, our need is 'bread' for everyone, we cannot follow western models.
- II. Yes. We cannot compete in the international market without equipping our children with computers.
- (1) Only Argument I is strong
- (2) Only Argument II is strong
- (3) Either I or II is strong
- (4) Neither I nor II is strong
- 51. Answer the questions on the basis of the information given below:

Seven varsity basketball players A, B, C, D, E, F and G are to be honoured at a special luncheon. The players will be seated on the dais in a row. A and G have to leave the luncheon early and so must be seated at the extreme right. B will receive the most valuable player's trophy and so much be in the centre to facilitate presentation. C and D are bitter rivals and therefore, must be seated as far apart as possible.

Which of the following pairs cannot be seated together?

- (1) B and D
- (2) C and F
- (3) D and G
- (4) E and A
- 52. Read the text and the statements carefully, and answer the questions .

Four people of different nationalities live on the same side of a street in four houses each of different colors. Each person has a different favorite drink. The following additional information is also known:

- A. The Englishman lives in the red house.
- B. The Italian drink tea.
- C. The Norwegian lives in the first house on the left.
- D. In the second house from the right they drink milk.
- E. The Norwegian lives adjacent to the blue house.
- F. The Spaniard drinks fruit juice.
- G. Tea is drunk in the blue house.
- H. The white house is to the right of the red house.

The Norwegian drinks:

- (1) Milk
- (2) Cocoa
- (3) Tea
- (4) Fruit Juice

Answer the questions on the basis of the information given below: A, B, C, D, E and F are a group of friends. There are two house wives, one professor, one engineer, one accountant and one lawyer in the group. There are only two married couples in the group. The lawyer is married to D, who is a housewife. No women in the group are either an engineer or an accountant. C, the accountant, is married to F, who is a professor. A is married to housewife. E is not a housewife. How many members of group are males? (1) 1

- (2) 3
- (3) 4
- (4) Cannot be determined
- 54. The first and the last parts of the sentence are numbered 1 & 6. The rest of the sentence, is split into four parts and named P, Q, R and S. These four parts are not given in their proper order.

Read the sentence and find out which of the four combinations is correct?

- It was obvious
- P. made by him
- Q. submitted at the meeting
- R. from the comments
- on the draft proposals S.
- that he was not satisfied with them.
- (1) QRSP

(2) SQRP

(3) RPSQ

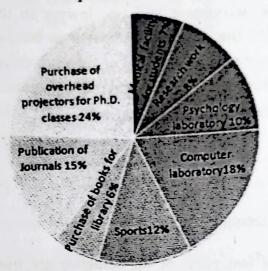
- (4) PSRQ
- 55. In an examination the average marks of Rohit are 63. If he got 20 more marks in Science and 28 more marks in Mathematics, then his average would have been 69. Find the total number of subjects he studied:
 - (1) 7

(2) 8

- (3) 10
- (4) 12

56. Study the following pie-chart carefully to answer these questions:

Total Expenditure: Rs. 60 Lacs



Expenditure of funds by University for various purpose

What is the difference between the expenditure made by university for Publication of Journals and Psychology Laboratory?

- (1) Rs. 4 lacs
- (2) Rs. 3 lacs
- (3) Rs. 4.2 lacs
- (4) Rs. 3.8 lacs

57. Study the following table and answer the questions:

Classification of 100 students based on the marks obtained by them in Physics and Chemistry in an Examination:

Subjects			Marks ou	t of 50	100 2
	40 and above	30 and above	20 and above	10 and above	0 and above
Physics	9	32	80	92	100
Chemistry	4	21	66	81	100
Average (Aggregate)	7	27	73	87	100

What is the difference between the number of students passed with 30 as cut-off marks in Chemistry and those passed with 30 as cut-off marks in aggregate?

(1) 3

(2) 4

(3) 5

(4) 6

58. Answer the questions based on the following information:

A, B, C and D are to be seated in a row. But C and D cannot be together. Also B cannot be at the third place. If A and B are together, then which of the following must be necessarily *true*?

- (1) C is not at the first place
- (2) A is at the third place
- (3) D is at the first place
- (4) C is at the first place

59. Answer the questions on the basis of the following information:

Four families decided to attend the marriage ceremony of one of their colleagues. One family has no kids, while the others have at least one kid each. Each family with kids has at least one kid attending the marriage.

Given below some information about the families, and who reached when to attend the marriage:

The family with 2 kids came just before the family with no kids.

Shanti who does not have any kids reached just before Sridevi's family. Sunil and his wife reached last with their only kid.

Anil is not the husband of Joya.

Anil and Raj are fathers.

Sridevi's and Anita's daughters go to the same school.

Joya came before Shanti and met Anita when she reached the venue. Raman stays the farthest from the venue.

Raj said his son could not come because of his exams.

Name the correct pair of husband and wife:

- (1) Raj and Shanti
- (2) Sunil and Sridevi
- (3) Anil and Sridevi
- (4) Raj and Anita

60. Answer the questions on the basis of the information given below:

The seven basic symbols in a certain numeral system and their respective values are as follows:

$$I = 1$$
, $V = 5$, $X = 10$, $L = 50$, $C = 100$, $D = 500$ and $M = 1000$

In general, the symbols in the numeral system are read from left to right, starting with the symbol representing the largest value; the same symbol cannot occur continuously more than three times; the value of the numeral is the sum of the values of the symbols. For example, XXVII = 10 + 10 + 5 + 1 + 1 = 27. An exception to the left to right reading occurs when a symbol is followed immediately by a symbol of greater value; then, the smaller value is subtracted from the larger.

For example, XLVI = (50 - 10) + 5 + 1 = 46.

The value of the numeral MCMXCIX is:

- (1) 1999
- (2) 1899
- (3) 1989
- (4) 1889
- 61. On reaching the railway station, you find that the train you wanted to catch is just to start and there is hardly any time for purchasing the ticket. The best thing for you is to:
 - (1) rush to the train rather than miss it and inform the T.T.I. at the next stoppage about your inability to purchase the ticket.
 - (2) rush to the train and perform your journey quietly.
 - (3) first purchase the ticket and then catch the train if it is there.
 - (4) miss the train rather than take the risk of boarding the moving train.
- **62.** Assertion: The problem solving ability, mental performance and memory of the employees of company C are deteriorating.
 - RI. Due to tight schedule at company C, the employees of the company are skipping their breakfast regularly.
 - RII. The job is physical in nature, but not mental.
 - (1) Only RI and not RII is the reason for the assertion.
 - (2) Only RII and not RI is the reason for the assertion.
 - (3) Either RI or RII, but not both, is the reason for the assertion.
 - (4) Neither RI nor RII is the reason for the assertion.

- - Assertion: During polling season, new roads are constructed, there is twenty-four hours of power supply, good supply of water, and many other facilities are provided to the people.
 - RI. Political leaders want to be in the good books of the people.
 - RII. Polling season that is the right time to convert black money to white money in the name of party funds for the industries.
 - (1) Only RI and not RII is the reason for the assertion.
 - (2) Only RII and not RI is the reason for the assertion.
 - (3) Either RI or RII, but not both, is the reason for the assertion.
 - (4) Neither RI nor RII is the reason for the assertion.
- Statements: All Carrots are birds. Some telephones are Carrots. All bedsheets are 64. telephone.

Conclusion:

- All bedsheet are birds I.
- II. Some bedsheet are birds
- III. Some birds are telephone
- IV. All telephone are birds
- (1) Only I follows

- (2) Only II follows
- (3) Only I and III follows
- (4) Only III follows
- 65. Statements: Some pearls are gems. All gems are diamonds. No diamond is stone. Some stones are corals.

Conclusions:

- Some stones are pearls. I.
- Some corals being diamond is possibility. II.
- III. No stone is pearl.
- (1) Only conclusion I is true
- (2) Both conclusion I and III are true
- (3) Either conclusion I or II is true
- (4) None of the above

16			ank from	the last?
66	Nitin ranks 18th in	a class of 49 student	ts. What is rank from	(4) 19
	44) 01	(2) 18	(3) 32	
67		ligits are there in the	e number 7346285 w y will be when arra	which are as far away from anged in ascending order
	(1) None	(2) One	(3) Two	(4) Three
68.	If the day before tomorrow?	yesterday was Sat	urday, what day w	vill fall on the day after
	(1) Friday	(2) Thursday	(3) Wednesday	(4) Tuesday
69.	If the digits in the right, what will be from the left in the	the sum of the dig	are arranged in asc its which are fourth	ending order from left to from the right and third
	(1) 10	(2) 9	(3) 8	(4) 6
70.	There are 6 persons	A, B, C, D, E and F	who have different r	ank in class test exam.
	Person A got last re	ank in class. E was	not first in class tes in class. E got more	t rank. B got more marks marks than only A. F was
	situated between D highest person got 9	and B in class test 2 marks.	ranking, and b scor	e less than D. The second
	situated between D	2 marks.		e less than D. The second
	situated between D highest person got 9	2 marks.		(4) 88
71.	situated between D highest person got 9 D got which of the f	ollowing possible m (2) 92	arks?	e less man D. The second
1.	situated between D highest person got 9 D got which of the f	ollowing possible m (2) 92 n of WORM?	arks?	e less man D. The second
1.	situated between D highest person got 9 D got which of the f (1) 89 What is the full form	ollowing possible m (2) 92 of WORM?	arks?	e less man D. The second
	situated between D highest person got 9 D got which of the f (1) 89 What is the full form (1) Write Once, Rea	ollowing possible m (2) 92 n of WORM? d More d Mode	arks?	e less man D. The second

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72,	What of the followi	ng is octal room		1	17
	(1) 3567	(2) 1600	tation (in 4 digits) o	of decimal number (896) ?	
73.	MSD refers to?	(-) 1000	(3) 1701	(4) 1654	
	(1) Many Significa	nt Dioit			
	(2) Most Significar	nt Decimal	era imilità de la	rollof shi to its twi .on	
	(3) Multiple Signif	icant Digit		GaW alliant (f)	
	(4) Most Significan	nt Digit			
74.	2's complement of				
	(1) 11110001	(2) 10010010	(3) 11100001	(4) 01010110	
75.	Which of the follow	ving is invalid hexa	decimal?	noth the following	
	(1) 0A23	(2) AB14	(3) XA23	(4) 1234	
76.	Which of the follow	ving is false?			
	(1) 2's complemen		ent of a number I th	ne number itself	
		for 369 is 01111001		A TOWNS A	
	(3) 1-bit gray code	e has two code wor	ds 0 and 1		
				s are placed at 1, 2 an	d 4
77.	What is bootstrapp	oing called?	(Or or a 10	Miles - Miles A. Miles	oia.
	(1) Hot Boot		(2) Cold Boot		
	(3) Cold hot strap		(4) Hot bootst	rap	
78.	Which of the follo	wing is system sof	tware?		
	(1) Operating Sys	tem	(2) Utilities		
	(3) Compiler		(4) All of the	above	

79	9. Which of the follow	ving payment card ha	ıs a ı	microchip embed	ded	in its surface ?
	(1) Debit Card	01-7		Credit Card		of school of
	(3) Metro Card					
00				Charge Card		
80		ving is a condition tha	at ca	uses deadlock?		
	(1) Circular Wait		(2)	Mutual Exclusion	n	
	(3) Hold and Wait		(4)	All of the above		
81	If $p \times q = p + q + \frac{p}{q}$	what is the value of	8 × 2	2?		74. In complement
	(1) 6	(2) 10	(3)	14	(4)	16
82.	If $0.13 \times p^2 = 13$, th	en p is equal to:				
	(1) 10	(2) 0.01	(3)	0.001	(4)	100
83.	If $A = \{5, 6\}$ and $B =$	{7, 8}, then what is the	he n	umber of relation	ns fr	om A to B?
	(1) 2 ²	(2) 2 ³			(4)	
84.	If $A = \{1, 2, 3, 4, 5, 3, 4, 6, 7, 6, 7, 6, 7, 6, 7, 7, 7, 7, 7, 7, 7, 7, 7, 7, 7, 7, 7,$	7, 8, 9} and $B = \{2, 4, \dots \}$	6, 7,	, 9}, then find nu	mbe	r of proper subsets of
	(1) 14	(2) 15	(3)	32	(4)	33
85.	The magnitude of t	he vector $6i + 2j + 3k$:			
	(1) 5	(2) 6	(3)	7	(4)	8
86.	(sin30° + cos30°) - (sin 60° + cos 60°):		Salta in		Marie Company
	(1) 0	(2) 1	(3)	2	(4)	-1
87.	If $x = 7 - 4\sqrt{3}$, then	what is the value of	\sqrt{x}	$+\frac{1}{\sqrt{x}}$?		
	(1) 1	(2) 2	(3)	3	(4) 4
88.	The scalar product of	of $5i + j - 3k$ and $3i -$	4j +	+ 7k is:		
	(1) 15	(2) -15		10	(4	4) -10
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89. The angle of elevation of a ladder leaning against a wall is 60° and the following the ladder is 4.6 m away from the wall. The length of ladder is:						hė
	(1) 2.3 m	(2) 4.6 m	ic icitg	7.8 m	(4) 9.2 m	
90.	An urn contains picked up at rand yellow?	6 red, 4 blue, 2 gr lom, what is the pr		d to storage	harbles. If two marbles a both are green or both a	ire are
	(1) 5/91			1/3		
	(3) 4/105			None of the al	bove	
91.	Which among the	following OS does				
	(1) Windows NT	, and a colour		Windows 98	tasking truly?	
	(3) Windows XP			MS DOS	Palary mana	
92.	In computers, sub	otraction is carried o				
	(1) 1's compleme				10113100 (8)	
	(3) 2's compleme			9's compleme		
93.				10's complem	nent	
93.	- and of the folio		ighted	code?		
	(1) Decimal num		(2)	Excess-3 code	e	
	(3) Binary number	er system	(4)	None of the a	above	
94.	Cache memory ac	cts between :	1			
	(1) RAM and RO	PM .	(2)	CPU and RA	M	
	(3) CPU and Har	d Disk	(4)) None		
95.	101111 - 010101 =	= ?				
	(1) 100100	(2) 011010	(3)) 011001	(4) 110011	
96.	Keyboard shortcu	it for redo:				
	(1) Ctrl +Z	(2) Ctrl+ Y	(3) Ctrl + X	(4) Shift + Y	

97. 1101 + 1100 in binary arithmetic?

- (1) 11001
- (2) 1100
- (3) 1001

(4) 0011

98. The address technique employed by a CPU is:

(1) Direct

(2) Indirect

(3) Immediate

(4) All of the above

99. Keys to switch between applications running in Windows OS:

(1) Ctrl + Tab

(2) Alt + Tab

(3) Shift + Tab

(4) Fn + Tab

100. $(10.10) \times (01.01)$

(1) 011.0010

(2) 110.0011

(3) 001.1101

(4) None of the above

Q. NO.	Α	В	c	D
1	3	3	1	1
2	1	2	4	2
3	3	1	1	2
	2	2	4	2
4				
5	3	2	4	1
6	11	1	3	3
7	4	3	3	11
8	4	3	3	1
9	4	4	1	3
10	3	1	3	2
11	11	2	4	1
12	2	1	2	4
13	2	3	3	3
14	2	1	3	2
15	1	3	2	4
16	3	3	2	1
17	1	3	4	1
18	1	1	2	2
19	3	4	2	3
20	2	3	1	3
21	4	4	3	3
22	2	3	1	2
23	3	4	3	1
24	3	1	2	2
25	2	1	3	2
26	2	3	1	1
27	4	1	4	3
28	2	4	4	3
29	2	2	4	4
	1	2	3	1
30			1	2
31	4	2	4	1
32	3			
33	4	2	3	3
34	1	2	2	1
35	1	1 4	4	3
36	3	3	1	3
37	1	1	1	3
38	4	1	2	1
39	2	3	3	4
40	2	2	3	3
41	1	1	3	4
42	4	4	2	3
43	1	3	4	4
44	4	2	1	1
45	4	4	3	1
46	3	1	2	3
47	3	1	2	1
48	3	2	4	4
49	1	3	3	2

(Dr. Samdref Dalal)

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Q. NO.	Α	В	С	D
51	2	3	4	4
		2	3	2
52	1			3
53	3	4	4	
54	1	1	1	3
55	3	3	1	2
56	3	2	3	2
57	3	2	1	4
58	1	4	4	2
59	4	3	2	2
60	3	4	2	1
61	3	4	3	11
62	2	,3	2	4
63	4	2	1	1
64	1	2	2	4
65	3	2	2	4
66	2	2	1	3
67	2	1	3	3
68	4	4	3	3
69	3	2	4	1
70	4	1	1	3
71	3	1	4	3
72		4	3	2
	2			
73	1	1	2	4
74	2	4	2	1
75	2	4	2	3
76	1	3	2	2
77	3	3	1	2
78	3	3	4	4
79	4	1	2	3
80	1	3	1	4
81	4	4	1	3
82	3	2	2	1
83	2	3	2	3
84	2	3	2	2
85	2	2	1	3
86	2	2	3	1
87	1	4	1	4
88	4	2	1	4
89	2	2	3	4
90	1	1	2	3
91	1	3	2	4
92	4	1	1	3
93	3	3	3	2
94	2	2	1	2
95	4	3	3	2
96	1	1	3	2
			3	1
97	1	4		
98	2	4	1	4
99	3	4	4	2

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