



Pokhara University

Faculty of Management Studies

Entrance Examination

Full Marks : 150

**Master of Computer System and Information
Technology (MCSIT)**

Time : 2Hrs

PU Entrance curriculum for MCSIT mainly covers common topics of all streams covering Verbal Ability, Quantitative Ability, Logical Reasoning and General Awareness

Section	Course	Weightage (%)
A	Verbal Ability	40
B	Quantitative Ability	40
C	Logical Reasoning	40
D	Computational Foundation	30
	Total	150

Section A: Verbal Ability

Test of the student's command over the vocabulary of English Language. Questions include from sections like Synonyms Antonyms, General Vocabulary, Grammar, Passage Reading etc

Section B: Quantitative Ability

Test of the student's basic mathematical concepts, ability to solve problems related to arithmetic , algebra, quantitative ability to reason quantitatively. Questions include from sections like numbers, percentage, average , time and work, series, permutation and combination , probability, interpretation of data etc

Section C: Logical Reasoning

Test of the student's problem solving attitude and intelligence. Questions include from sections like Analogy, selecting odd answer, drawing of conclusion from the specified scenarios etc

Section D: Computational Foundation

1. Loops and Decisions in C Programming

Introduction, for, while, do while loop, Case, break and continue statements, The if, if else, else-if and switch statements. Introduction, Returning a value from a function,

Sending a value to a function , Arguments, External Variables, Preprocessor Directives, C libraries, Macros, Header Files and Prototyping

2. Classes, Methods and Messages

Encapsulation, Inheritance, Polymorphism, Varieties of Classes, Interface and Implementation, Classes and Methods in C++, Message Passing Formalism, Message Passing Syntax in C++, Issues in Creation and Initialization, Memory Recovery, Pointers;

3. Computer Architecture and Organization

CPU organization, register organization, Instruction cycle, Computer Arithmetic, Instruction sets, addressing modes, Control Unit- hardwired control Unit, micro-programmed control unit, Cache memory- catch principle, mapping catch memory, write policy, replacement algorithms, Input-output organization- programmed I/O, interrupt driven I/O, Direct memory access, RISC vs. CISC, RISC pipelining, parallel processing- parallelism in uni-processor system, multiprocessor system and their characteristics, Flynn's classification, Cache coherence, vector processing and array processor, multi-core organization, dual core and quad core processors.

4. Software Project Management Concepts

Software Crisis and Myths, Software Process and Process Models, Process Technology, Product and Process , People , Product , Project, Project Size, Effort and Cost Estimation

5. Relational Database

Database System, Data Independence. Three Levels of Architecture: External, Conceptual and Internal. Mappings. Database Administration, DBM, Data Communication, Manager, Client-Server Architecture, Distributed Processing, E-R Model, Data Dictionary

6. Operating System Structure

Introduction, Function of OS, Types of OS, Operating System Components, OS services, System Calls , System Programs , System Structure, Distributed Operating Systems

7. Computer Networks

Network topologies and architecture, Reference Model: TCP/IP, ISO/OSI, IP Addresses and Classes; Subnet and Subnet mask; Introduction of IPV6



Nepal College of Information Technology
Balkumari, Lalitpur
Entrance Examination Sample

Master of Computer System and Information Technology
(MCSIT)

Section I: Verbal Ability (Full Marks: 40)

Directions: For the following questions, select the best of the answer choices given. Tick (✓) the correct answer on the separate answer sheet.

1. Select the pair of words that has the same relationship as lawyer : court

A)	professor : university	B)	author : book
C)	wine : grapes	D)	volume : litre
E)	apple : orange		

2. Select the pair of words that has the same relationship as bee : hive

A)	soldier : war	B)	goat : bleat
C)	cow : cave	D)	monk : monastery
E)	car : van		

3. Choose the closest meaning to the following word: Calumniate

A)	to accuse falsely	B)	to accuse truthfully
C)	to denounce	D)	to ditch
E)	to hide		

4. Choose the closest meaning to the following word: Detest

A)	to support	B)	to love
C)	to hate intensely	D)	neglect
E)	to test		

5. The man _____ my house was a cheat.

A)	to whom I sell	B)	to who I sell
C)	who was sold to	D)	to whom I sold
E)	who sold was to		
6. He is too important _____ any delay.			
A)	to tolerate	B)	at tolerating
C)	to tolerating	D)	with tolerating
E)	No correction required		
7. _____ means extreme old age when a man behaves like a fool			
A)	Imbecility	B)	Senility
C)	Dotage	D)	Superannuation
E)	Grand dad		
8. _____ means that which cannot be corrected			
A)	Unintelligible	B)	Indelible
C)	Illegible	D)	Incorrigible
E)	Impossible		
9. The study of ancient societies is called _____			
A)	Anthropology	B)	Archaeology
C)	History	D)	Ethnology
E)	Chemistry		
10. A person of good understanding knowledge and reasoning power is called _____			
A)	Expert	B)	Intellectual
C)	Snob	D)	Literate
E)	Illiterate		

11. A person who insists on something is called _____			
A)	Disciplinarian	B)	Stickler
C)	Instantaneous	D)	Boaster
E)	Miser		
12. To keeps one's temper means _____			
A)	to become hungry	B)	to be in good mood
C)	to preserve ones energy	D)	to be aloof from
E)	None of these		
13. To catch a tartar means _____			
A)	To trap wanted criminal with great difficulty	B)	To catch a dangerous person
C)	To meet with disaster	D)	To deal with a person who is more than one's match
E)	None of these		
14. Read both the two statements and decide which of the following answer choice correctly depicts the relationship between these two statements.			
I. Standard of living among the middle class society is constantly going up since part of few years.			
II. Indian Economy is observing remarkable growth			
A)	Statement I is the cause and statement II is its effect.	B)	Statement II is the cause and statement I is its effect.
C)	Both the statements I and II are independent causes.	D)	Both the statements I and II are effects of independent causes.
E)	Both the statements I and II are effects of some common cause		
15. The total of the ages of Ram, Shyam and Hari is 80 years. What was the total of their			

ages three years ago?			
A)	71 Years	B)	72 Years
C)	77 Years	D)	74 Years
E)	79 Years		
16. An institute organized a fete and $\frac{1}{5}$ of the girls and $\frac{1}{8}$ of the boys participated in the same. What fraction of the total number of students took part in the fete?			
A)	$\frac{2}{13}$	B)	$\frac{13}{40}$
C)	$\frac{21}{89}$	D)	None of these
E)	Data is inadequate		
17. A pineapple costs Rs. 7 each. A watermelon costs Rs. 5 each. X spends Rs. 38 on these fruits. The number of pineapples purchased is _____			
A)	2	B)	3
C)	4	D)	5
E)	Data is not sufficient		
18. A woman says, "If you reverse my own age, the figures represent my husband's age. He is, of course, senior to me and the difference between our ages is one-eleventh of their sum." The woman's age is _____			
A)	23 years	B)	45 years
C)	34 years	D)	55 years
E)	None of these		
19. What is the product of all the numbers in the dial of a telephone?			
A)	1,58,480	B)	1,59,450
C)	1,59,480	D)	1,59,481
E)	None of these		
20. A is 3 years older to B and 3 years younger to C, while B and D are twins. How many			

years older is C to D?

- | | | | |
|----|----|----|----|
| A) | 2 | B) | 3 |
| C) | 6 | D) | 12 |
| E) | 13 | | |

21. What comes next 120, 99, 80, 63, 48, ?

- | | | | |
|----|----|----|----|
| A) | 35 | B) | 38 |
| C) | 39 | D) | 40 |
| E) | 41 | | |

22. Correct the sentence:

When slugs contract their bodies making _____

- | | | | |
|----|--|----|--------------------------------------|
| A) | Harder and more compact | B) | Their selves harder and more compact |
| C) | Themselves hard and them more compact | D) | Itself harder and more compact |
| E) | It becomes harder and the more compact | | |

23. Choose the word which best expresses the meaning of the word: Corpulent

- | | | | |
|----|-----------|----|-------|
| A) | Lean | B) | Gaunt |
| C) | Emaciated | D) | Obese |
| E) | Sedated | | |

24. Choose the word which best expresses the meaning of the word: Brief

- | | | | |
|----|---------|----|-------|
| A) | Limited | B) | Small |
| C) | Little | D) | Short |
| E) | Few | | |

25. Choose the word which best expresses the meaning of the word: Embezzle

A)	Misappropriate	B)	Balance
C)	Remunerate	D)	Clear
E)	Obtrusion		

26. Choose the word which is the exact opposite of the given word: ENORMOUS.

A)	Soft	B)	Average
C)	Weak	D)	Tiny
E)	Small		

27. Choose the word which is the exact opposite of the given word: Artificial

A)	Red	B)	Natural
C)	Truthful	D)	Solid
E)	Liquid		

28. Choose the word which is the exact opposite of the given word: Exodus

A)	Influx	B)	Home-coming
C)	Return	D)	Restoration
E)	Family		

29. Choose the word which is the exact opposite of the given word: Relinquish

A)	Abdicate	B)	Renounce
C)	Possess	D)	Deny
E)	Rule		

30. Choose the word which best expresses the meaning of the word: Vent

A)	Opening	B)	Stodge
C)	End	D)	Past tense of go
E)	New		

31. The meaning of the phrase “To make clean breast of” is _____			
A)	To gain prominence	B)	To praise oneself
C)	To confess without of reserve	D)	To destroy before it blooms
E)	To trap before it is freed		
32. The meaning of the phrase “To hit the nail right on the head” is _____			
A)	To hit the nail right on the head	B)	To destroy one's reputation
C)	To announce one's fixed views	D)	To teach someone a lesson
E)	None of these		
33. The meaning of the phrase “To set one's face against” is _____			
A)	To oppose with determination	B)	To judge by appearance
C)	To get out of difficulty	D)	To look at one steadily
E)	None of these		
34. Ancient cities were ____ destroyed, but archeologists have found sufficient information to demonstrate an occasionally ____ but generally complete picture in Tan Era.			
A)	Mostly fragmentary	B)	Obviously necessary
C)	Unwittingly whole	D)	Partially famous
E)	Fully necessary		
35. To be a true leader, a manager must not be too ____ any effective leader depends on the ability of other people to ____ with each other			
A)	Popular agree	B)	Adventurous communicate
C)	Independent cooperate	D)	Self-confident argue
E)	Pragmatic disagree		
36. It is not surprising that superior service can generate competitive advantage for a			

company, but the effort taken to improve service can often be _____			
A)	Difficult	B)	Expected
C)	Diversified	D)	Unpredictable
E)	Promising		
37. Unlike birds that simply spread viruses from an animal to another animal, pigs are the _____ "vessel" where viruses swap genes and become _____, deadly germs.			
A)	Comprehensive small	B)	Complicated general
C)	Frustrated important	D)	Mixing new
E)	Lethal big		
38. It has been established that P : Einstein was Q : although a great scientist R : weak in arithmetic S : right from his school days The proper sequence should be:			
A)	SRPQ	B)	QPRS
C)	QPSR	D)	RQPS
E)	RQSP		
39. When he P : did not know Q : he was nervous and R : heard the hue and cry at midnight S : what to do The proper sequence should be:			
A)	RQPS	B)	QSPR
C)	SQPR	D)	PQRS
E)	PQSR		

40. Then			
P : it struck me			
Q : of course			
R : suitable it was			
S : how eminently			
The proper sequence should be:			
A)	SPQR	B)	QSRP
C)	PSRQ	D)	QPSR
E)	QPRS		

Section II: Quantitative Reasoning (Full Marks: 40)

Directions: <i>For the following questions, select the best of the answer choices given. Tick (✓) the correct answer on the separate answer sheet.</i>			
41. A recipe requires $\frac{3}{2}$ cups of sugar and makes 2 dozen cakes (1 dozen = 12)			
Quantity A		Quantity B	
The amount of sugar required for the 2 cups		Same recipe to make 30 cakes	
A)	Quantity A is greater	B)	Quantity B is greater
C)	The two quantities are equal	D)	The relationship cannot be determined from the information given.
E)	The question is wrong		
42. $(x - 2y)(x + 2y) = 4$			
Quantity A		Quantity B	
$x^2 - 4y^2$		8	
A)	Quantity A is greater.	B)	Quantity B is greater.
C)	The two quantities are equal.	D)	The relationship cannot be determined from the information given
E)	The question is wrong		

43. $7x + 3y = 12$ $3x + 7y = 6$

If x and y satisfy the system of equations above, what would be the value of $x - y$?

A)	$\frac{2}{3}$	B)	$\frac{3}{2}$
C)	1	D)	4
E)	6		

44. In triangle ABC, the measure of angle A is 25° and the measure of angle B is greater than 90° . Which of the following could be the measure of angle C ? Indicate all possible values.

A)	12 degrees	B)	15 degrees
C)	45 degrees	D)	50 degrees
E)	70 degrees		

45. What is the least integer 'n' such that $\frac{1}{2^n} < 0.001$?

A)	10	B)	11
C)	500	D)	501
E)	111		

46. In the sunshine, an upright pole 12 feet tall is casting a shadow 8 feet long. At the same time, a nearby upright pole is casting a shadow 10 feet long. If the lengths of the shadows are proportional to the heights of the poles, what is the height, in feet, of the taller pole?

A)	10	B)	12
C)	14	D)	15
E)	18		

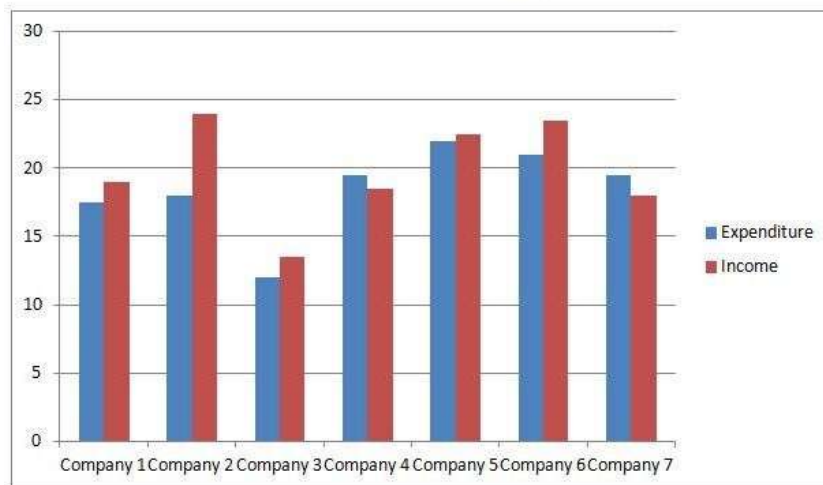
47. If a is the smallest prime number greater than 21 and b is the largest prime number less than 16, then $ab =$

A)	299	B)	323
C)	330	D)	345
E)	351		

48. The income of A, B and C are in the ratio 7: 9: 12 and their expenditure are in the ratio 8 : 9 : 15. If A saves $\frac{1}{4}$ of his income. Find the ratio of savings of A, B and C.			
A)	56 : 99 : 69	B)	69 : 56 : 99
C)	99 : 56 : 69	D)	99 : 69 : 56
E)	89 : 98 : 55		
49. The profit earned when a calculator is sold for 1600 is 20 times the loss incurred when it is sold for Rs. 550. At what price should the calculator be sold if it is desired to make a profit of 25%?			
A)	800	B)	900
C)	650	D)	750
E)	544		
50. If $x/3=y/5=z/8$ then what is $(x+y+z)/z$			
A)	3.15	B)	5.25
C)	4.5	D)	2
E)	56		
51. If the dice are thrown simultaneously then the probability of sum appearing on the dice is equal to and less than 3?			
A)	5/11	B)	6/13
C)	1/36	D)	1/12
E)	2/12		
52. If Jim goes to the office from his house at a speed of 16 km/h, he reaches the office 5 minutes late. If he goes at a speed of 20 km/h, he reaches 10 minutes earlier than the office time. The distance of his office from his house is?			
A)	22 km	B)	20 km
C)	18 km	D)	16 km
E)	45 km		

53. Study the table below and answer the questions given below:

$$\text{Percentage Profit or Loss} = \frac{\text{Income} - \text{Expenditure}}{\text{Expenditure}} \times 100$$



(Expenditure and Income in Crores)

What is the percentage profit/loss put together by companies 1 and 7? (M)

A)	10% loss	B)	12.5% profit
C)	14% profit	D)	34% loss
E)	No profit or loss		

54. If c and d are positive integers and m is the greatest common factor of c and d , then m must be the greatest common factor of c and which of the following integers?

A)	$c + d$	B)	$2 + d$
C)	cd	D)	$2d$
E)	d^2		

55. List R: 28, 23, 30, 25, 27 List S: 22, 19, 15, 17, 20

The median of numbers in list R is how much greater than the median of the numbers in list S ?

A)	8	B)	10
C)	12	D)	13
E)	15		

56. A sphere of radius 12 cm is dropped into a cylindrical vessel partly filled with water. The radius of the vessel is 16 cm. If the sphere is submerged completely, then the surface of the water rises by:			
A)	7 cms	B)	8 cms
C)	9 cms	D)	10 cms
E)	13 cms		
57. If 30 technicians working 5 hours a day can repair 12 bikes in 11 days, in how many days will 22 technicians working 3 hours a day repair 36 bikes?			
A)	75	B)	65
C)	45	D)	84
E)	88		
58. The successive discount of 20% 40% and 10% is equivalent to a single discount of			
A)	70%	B)	60%
C)	43.5%	D)	48%
E)	45%		
59. A car was sold at 10% loss. If it was sold at Rs 460, there would have been a profit of 15%. Find the selling price			
A)	360	B)	400
C)	380	D)	420
E)	346		
60. A 50m x 30m rectangular field has a 3m wide path outside the field . What is the area of the path?			
A)	700 m ²	B)	500 m ²
C)	2100 m ²	D)	500 m ³
E)	2101 m ²		

61. Frank tosses a coin 10 times. What is the probability that he will get exactly 5 heads and 5 tails?			
A)	1/32	B)	63/256
C)	1/4	D)	1/2
E)	193/256		
62. Bagmati province wants to issue license plates with 4 letters and 3 numbers. If the numbers and letters are allowed to repeat, how many different license plates can be created?			
A)	456,976,000	B)	258,336,000
C)	388,800	D)	26000
E)	Infinite		
63. Ram goes to the movies again with 5 of his friends. There are only 3 seats available in the front row. How many different seating arrangements can Ram and his friends create?			
A)	243	B)	123
C)	60	D)	120
E)	15		
64. Shyam travelled Y percent of the total distance at an average speed of 30mph and travelled the rest of the distance at an average speed of 20 m/s. In terms of Y what was Shyam's average speed for the entire trip?			
A)	100/(Y + 45)	B)	(200 - Y)/2
C)	6000/(300 - Y)	D)	9000/(200 - Y)
E)	9000/(200 + Y)		
65. The owner of a store keeps only cats and dogs. Of the 60 pets in the store, 38 are cats, 28 have black fur and 14 are neither black furred nor cats. What percentage of the store's dogs are black furred?			
A)	13.3%	B)	23.3%
C)	36.4%	D)	57.1%

E)	63.6%		
66. Hari has 10 Liter of a 30% solution of salt in water. He adds enough salt to create a 50% solution. How much water will Hari need to add to the solution to get it back to a 30% solution?			
A)	7 Liters	B)	9 1/3 Liters
C)	10 Liters	D)	13 2/3 Liters
E)	15 Liters		
67. Students in Henry's class took a geometry test. The girl's scores in the class averaged 90% , the boy's scores in the class averaged 82% while the overall class average was 85% what is the ratio of boys to girls in the class?			
A)	3 : 5	B)	9 : 8
C)	5 : 4	D)	8 : 5
E)	5 : 3		
68. Ram and Shyam both work for the same sales company. Ram's commission rate is 20% and Shyam's commission rate is 30% . if Ram sold Rs. 55000 worth of goods and Shyam sold Rs. 80000 worth of goods , what is their combined average commission rate?			
A)	15%	B)	24.1%
C)	25%	D)	25.9%
E)	35%		
69. Milk carton A and milk jug B each contain milk. The capacity of jug B is 40% greater than that of carton A . How much more milk is in carton A than in jug B?			
A)	When full container B holds 7 L of milk	B)	When full container B holds 9 L of milk
C)	Container A is 4/5 full and container B is 2/7 full	D)	Container A is 1/5 full and container B is 2/8 full
E)	Container A is 3/5 full and container B is 12/7 full		

70. If t is the tens digit and u is the units digit of a two digit number, what is the value of this number?

A)	$t + u = 9$	B)	$t - u = -5$
C)	$-t + u = 9$	D)	$t + u = -9$
E)	$t + u = 19$		

71. If the vertices of a triangle ABC have coordinates $(0,1)$, $(0,-4)$ and $(x,0)$ is the area of the triangle greater than 13?

A)	$x < 3$	B)	Triangle ABC is a right triangle
C)	$x > 3$	D)	Triangle ABC is not a right triangle
E)	$x > 10$		

72. If a , b , c and d are positive prime numbers and the product of $abcd = 210$ what is the value of b ?

A)	$b + c = d$	B)	$c + d = a^2$
C)	$b - c = d$	D)	$b + c = d^2$
E)	$b + c = d^2$		

73. What is the radius of the circle that circumscribes a triangle whose sides measure 41, 40, 9?

A)	9	B)	20.5
C)	20	D)	41
E)	45		

74. What is the lowest positive integer that is divisible by each of the integers 1 through 8 inclusive?

A)	420	B)	840
C)	2520	D)	5040
E)	40320		

75. If S is an integer which of the following must be odd?

- | | | | |
|----|-----------|----|----------|
| A) | $S + 1$ | B) | $2S - 1$ |
| C) | $S^2 + 2$ | D) | $S + 2$ |
| E) | $2S$ | | |

76. If $abc > 0$, then which of the following must be true?

- | | | | |
|----|------------|----|----------|
| A) | $a/b < 0$ | B) | $a > 0$ |
| C) | $ab/c > 0$ | D) | $bc < 0$ |
| E) | $a > bc$ | | |

77. The sum of prime numbers that are between 110 and 125 is

- | | | | |
|----|-----|----|-----|
| A) | 113 | B) | 119 |
| C) | 232 | D) | 240 |
| E) | 353 | | |

78. if $27^{x+2} 25^y = 3^{95} 5^{x-3}$, what is the value of y ?

- | | | | |
|----|----|----|-----|
| A) | -3 | B) | -1 |
| C) | -2 | D) | 0.5 |
| E) | 2 | | |

79. Shyam's age is 5 more than twice Ram's age. In 20 years, Ram's age tripled will be 7 more than Shyam's age doubled. How old will Shyam be 10 years from now?

- | | | | |
|----|----|----|----|
| A) | 21 | B) | 24 |
| C) | 30 | D) | 31 |
| E) | 62 | | |

80. If x is a product of all integers from 2 to 24, inclusive, what is the greatest integer y for which 35^y is a factor of x ?

A)	2	B)	3
C)	5	D)	7
E)	9		

Section III: Logical Reasoning (Full Marks: 40)

Directions: For the following questions, select the best of the answer choices given. Tick (✓) the correct answer on the separate answer sheet.

81. If BAD is coded as YZW and FIGHT is coded as URTSG then HAG will be coded as

A)	GAH	B)	SZT
C)	WAG	D)	RST
E)	RTS		

82. If DF WY HJ SU stands for EXIT then DF MO SU DF QS stands for

A)	FRUIT	B)	ENTER
C)	MOUSE	D)	TREES
E)	TEASE		

83. If $2 \times 3 = 812$ and $4 \times 5 = 1620$ then $6 \times 7 =$

A)	6677	B)	6767
C)	2428	D)	2824
E)	3467		

84. Given the sequence of numbers 2,5,11,14,17,21 circle the odd one

A)	21	B)	17
C)	3	D)	14
E)	54		

85. Given the sequence of numbers 1,2,6,15,31,56,91 circle the wrong one

A)	31	B)	91
C)	56	D)	15
E)	1		

86. If HOTEL is coded as 60 then BAR is coded as

A)	2118	B)	56
C)	21	D)	26
E)	55		

87. Based on the first two statements find out if the third statement is true , false or uncertain

- I. Apples cost more than banana
- II. Apples cost less than oranges
- III. Oranges cost more than both banana and apples

If the first two statements are true then the third statement is

A)	True	B)	False
C)	Uncertain	D)	Partially true
E)	The question is wrong		

88. Based on the first two statements find out if the third statement is true , false or uncertain

- I. I run faster than Heather
- II. Brandy runs faster than me
- III. Heather runs faster than Brandy

If the first two statements are true then the third statement is

A)	True	B)	False
C)	Uncertain	D)	Partially true
E)	The question is wrong		

89. Select the odd one in the following groups of words

A)	Buffalo	B)	Sparrow
C)	Cow	D)	Goat
E)	The question is wrong		

90. Statements:

I. The prices of petrol and diesel in the domestic market have remained unchanged for the past few months.

II. The crude oil prices in the international market have gone up substantially in the last few months.

A)	Statement I is the cause and statement II is its effect	B)	Statement II is the cause and statement I is its effect
C)	Both the statements I and II are independent causes	D)	Both the statements I and II are effects of independent causes
E)	Both the statements I and II are effects of some common cause		

91. Statements:

I. The Reserve Bank of Nepal has recently put restrictions on few small banks in the country.

II. The small banks in the private and co-operative sector in Nepal are not in a position to withstand the competitions of the bigger in the public sector.

A)	Statement I is the cause and statement II is its effect	B)	Statement II is the cause and statement I is its effect
C)	Both the statements I and II are independent causes	D)	Both the statements I and II are effects of independent causes
E)	Both the statements I and II are effects of some common cause		

92. Statement: In a one day cricket match, the total runs made by a team were 200. Out of these 160 runs were made by spinners.

Conclusions:

1. 80% of the team consists of spinners.
2. The opening batsmen were spinners.

A)	Only conclusion I follows	B)	Only conclusion II follows
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C)	Either I or II follows	D)	Neither I nor II follows
E)	Both I and II follow		
93. If the legislature decides to fund the agricultural subsidy program, national radio, and the small business loan program, the only other single program that can be funded is _____			
A)	hurricane preparedness.	B)	harbor improvements.
C)	school music program.	D)	senate office building remodeling.
E)	international airport.		
94. Statements: No women teacher can play. Some women teachers are athletes. Conclusions: I. Male athletes can play. II. Some athletes can play.			
A)	Only conclusion I follows	B)	Only conclusion II follows
C)	Either I or II follows	D)	Neither I nor II follows
E)	Both I and II follow		
95. Statements: All bags are cakes. All lamps are cakes. Conclusions: I. Some lamps are bags. II. No lamp is bag.			
A)	Only conclusion I follows	B)	Only conclusion II follows
C)	Either I or II follows	D)	Neither I nor II follows
E)	Both I and II follow		
96. Statements: All mangoes are golden in colour. No golden-coloured things are cheap. Conclusions: I. All mangoes are cheap. II. Golden-coloured mangoes are not cheap.			
A)	Only conclusion I follows	B)	Only conclusion II follows
C)	Either I or II follows	D)	Neither I nor II follows

E)	Both I and II follow		
97. Statements: Some doctors are fools. Some fools are rich. Conclusions: I. Some doctors are rich II. Some rich are doctors.			
A)	Only conclusion I follows	B)	Only conclusion II follows
C)	Either I or II follows	D)	Neither I nor II follows
E)	Both I and II follow		
98. The attainment of individual and organisational goals is mutually interdependent and linked by a common denominator - employee work motivation. Organisational members are motivated to satisfy their personal goals, and they contribute their efforts to the attainment of organisational objectives as means of achieving these personal goals. The passage best supports the statement that motivation -			
A)	encourages an individual to give priority to personal goals over organisational goals.	B)	is crucial for the survival of an individual and organisation.
C)	is the product of an individual's physical and mental energy.	D)	is the external force which induces an individual to contribute his efforts.
E)	makes organisation and society inseparable.		
99. One of the important humanitarian by-products of technology is the greater dignity and value that it imparts to human labour. In a highly industrialized society, there is no essential difference between Brahmin and Dalit, Muslim and Hindu; they are equally useful and hence equally valuable for in the industrial society individual productivity fixes the size of the pay cheque and this fixes social status. The passage best supports the statement that:			
A)	technology decides individual's social status.	B)	castes and religions are man-made.
C)	human labour has dignity and value.	D)	all individuals, irrespective of caste and creed, are born equal.
E)	industrial society is a great leveller of men.		

100. Odometer is to mileage as compass is to _____			
A)	Speed	B)	Hiking
C)	Needle	D)	Direction
E)	Depth		
101. Marathon is to race as hibernation is to _____			
A)	Winter	B)	Bear
C)	Dream	D)	Sleep
E)	Awake		
102. Cup is to coffee as bowl is to _____			
A)	Dish	B)	Soup
C)	Spoon	D)	Food
E)	Fork		
103. Exercise is to gym as eating is to _____			
A)	Food	B)	Dieting
C)	Fitness	D)	Restaurant
E)	House		
104. Careful is to cautious as boastful is to _____			
A)	Arrogant	B)	Humble
C)	Joyful	D)	Suspicious
E)	Respect		
105. Pen is to poet as needle is to _____			
A)	Thread	B)	Button
C)	Sewing	D)	Tailor

E)	Swing		
106. One of the warmest winters on record has put consumers in the mood to spend money. Spending is likely to be the strongest in thirteen years. During the month of February, sales of existing single-family homes hit an annual record rate of 4.75 million. This paragraph best supports the statement that			
A)	consumer spending will be higher thirteen years from now than it is today.	B)	more people buy houses in the month of February than in any other month.
C)	during the winter months, the prices of single-family homes are the lowest.	D)	there were about 4 million homes for sale during the month of February.
E)	warm winter weather is likely to affect the rate of home sales.		
107. In the past, consumers would rarely walk into an ice cream store and order low-fat ice cream. But that isn't the case today. An increasing health consciousness combined with a much bigger selection of tasty low-fat foods in all categories has made low-fat ice cream a very profitable item for ice cream store owners. This paragraph best supports the statement that			
A)	low-fat ice cream produces more revenue than other low-fat foods.	B)	ice cream store owners would be better off carrying only low-fat ice cream.
C)	ice cream store owners no longer think that low-fat ice cream is an unpopular item.	D)	low-fat ice cream is more popular than other kinds of ice cream.
E)	consumers are fickle and it is impossible to please them		
108. SCD, TEF, UGH, _____, WKL			
A)	CMN	B)	UJI
C)	VII	D)	IJT
E)	TIJ		
109. ELFA, GLHA, ILJA, _____, MLNA			
A)	OLPA	B)	KLMA

C)	LLMA	D)	KLLA
E)	MLLA		
110. Look at this series: 58, 52, 46, 40, 34, ... What number should come next?			
A)	26	B)	28
C)	30	D)	32
E)	34		
111. Look at this series: 5.2, 4.8, 4.4, 4, ... What number should come next?			
A)	3	B)	3.3
C)	3.5	D)	3.6
E)	3.8		
112. Which word does NOT belong with the others?			
A)	Tyre	B)	Steering wheel
C)	Engine	D)	Car
E)	Wind shield		
113. Which word does NOT belong with the others?			
A)	Tulip	B)	Rose
C)	Bud	D)	Daisy
E)	Violet		
114. Which word does NOT belong with the others?			
A)	Book	B)	Index
C)	Glossary	D)	Chapter
E)	Table of contents		

115. Which word does NOT belong with the others?

- | | | | |
|----|----------|----|--------|
| A) | Leopard | B) | Cougar |
| C) | Elephant | D) | Lion |
| E) | Cheetah | | |

116. Which word does NOT belong with the others?

- | | | | |
|----|-------|----|-------|
| A) | Couch | B) | Rug |
| C) | Table | D) | Chair |
| E) | Sofa | | |

117. The miser gazed _____ at the pile of gold coins in front of him.

- | | | | |
|----|--------------|----|------------|
| A) | Avidly | B) | Admiringly |
| C) | Thoughtfully | D) | Earnestly |
| E) | Honestly | | |

118. I saw a _____ of cows in the field.

- | | | | |
|----|-------|----|-------|
| A) | Group | B) | Herd |
| C) | Swarm | D) | Flock |
| E) | Team | | |

119. He is so _____ that he immediately believe my story of ghosts.

- | | | | |
|----|------------|----|-----------|
| A) | Innocent | B) | Credulous |
| C) | Vociferous | D) | Credible |
| E) | Miser | | |

120. Do you know _____?

- | | | | |
|----|----------------------|----|--------------------------|
| A) | where she comes from | B) | where does she come from |
| C) | where from she comes | D) | from where does she come |

E)	from does she come where		
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Section IV: General Awareness (Full Marks: 30)

Directions: <i>For the following questions, select the best of the answer choices given. Tick (✓) the correct answer on the separate answer sheet.</i>			
121. The full form of HTTP is _____.			
A)	Hypertext Transmit Protocol	B)	Hypersource Transfer Protocol
C)	Hypertext Transfer Protocol	D)	Hypertext Transit Protocol
E)	Hypertext Transfer Problem		
122. Which of the following is not used in a Data Flow Diagram?			
A)	Arrow (Data Flow)	B)	Cartinality
C)	External Entity	D)	Process
E)	Data Store		
123. Which one of the following is an Operating System?			
A)	Ruby	B)	Python
C)	Small Talk	D)	Android
E)	Java		
124. Which one of the following is a valid phase of Waterfall Model?			
A)	Prototyping	B)	Analysis
C)	Backlog	D)	Sprint Session
E)	JAD		
125. _____ is a memory used to hold data permanently.			
A)	ROM	B)	Screen
C)	RAM	D)	Peripheral Device

E)	Output Hardware		
126. A Router connects two or more_____.			
A)	Screen	B)	Pixles
C)	Clocks	D)	Speakers
E)	Networks		
127. _____words comprise of 32 bits.			
A)	Two	B)	Three
C)	One	D)	Zero
E)	Four		
128. Octal number system has a base value equal to _____			
A)	2	B)	16
C)	4	D)	8
E)	6		
129. Which one of the following is not a valid email address format?			
A)	user.example.com	B)	use1@example.com
C)	user@example.com	D)	user2@example.com
E)	ALL		
130. _____is a valid data type in C programming language.			
A)	Paragraph	B)	Float
C)	Characters	D)	Sentence
E)	Triple		
131. A website is a collection of related_____.			

A)	House pages	B)	Title pages
C)	Web pages	D)	Cover pages
E)	Entry pages		
132. URL stands for _____.			
A)	Unified Resource Loader	B)	Universal Resource Locator
C)	Uniform Revolution Location	D)	Unmatched Resource Location
E)	Uniform Relay Line		
133. A compiler converts a program into _____ language.			
A)	Programming	B)	Conversion
C)	Machine	D)	Debugger
E)	Translation		
134. _____ is an example of application software			
A)	Windows	B)	Powerpoint
C)	Linux	D)	Compiler
E)	Linker		
135. The _____ computers used Integrated Circuits (ICs)_____.			
A)	Second Generation	B)	First Generation
C)	Third Generation	D)	Fourth Generation
E)	Fifth Generation		
136. _____ is used to hold multiple values of the same type			
A)	Character	B)	String
C)	Integer	D)	Float
E)	Array		

137. The ASCII code for the alphabet 'd' is _____.			
A)	0	B)	100
C)	100	D)	67
E)	10		
138. Which one of the following is an input hardware?			
A)	Calendar	B)	Light Pen
C)	Processor	D)	Laptop
E)	CPU Fan		
139. An image on the screen is made up of _____.			
A)	Labels	B)	Instructions
C)	Symbols	D)	Pictures
E)	Pixels		
140. In _____, a schema defines how data is organized in a relational database.			
A)	Operating system	B)	Network
C)	Database	D)	SDLC
E)	Stored procedure		
141. Which SQL statement is used to list all student details?			
A)	SELECT * STUDENT;	B)	SELECT ALL FROM STUDENT;
C)	SELECT ! FROM STUDENT;	D)	LIST * FROM STUDENT;
E)	SELECT * FROM STUDENT;		
142. _____ is not an Agile Framework			
A)	Scrum	B)	RUBY

C)	Crystal	D)	DSDM
E)	FDD		
143. ARP is a _____ layer protocol			
A)	Network	B)	Connection
C)	Application	D)	Distribution
E)	Transmission		
144. A Router operates in the _____ layer of ISO/OSI model			
A)	Presentation	B)	Application
C)	Session	D)	Network
E)	Physical		
145. Subnet Mask is used to identify the _____ portion of an IP address			
A)	Client	B)	Server
C)	Host	D)	Duplicate
E)	Network		
146. UDP does not need a _____ circuit to be established before transferring data.			
A)	Host	B)	Virtual
C)	Primary	D)	Physical
E)	Secondary		
147. The main memory communicates directly with the _____			
A)	Screen	B)	Polymorphism
C)	CPU	D)	Inheritance
E)	Mouse		

148. MIMD stands for			
A)	Multiple Instruction Multiple Data	B)	Multiple Intrusion Multiple Data
C)	Mask Instruction Multiple Data	D)	Many Intrusion Many Data
E)	Multiple Instruction Many Diversion		
149. CREATE is a _____ SQL statement.			
A)	DCL	B)	DDL
C)	TCL	D)	DML
E)	DQL		
150. Unified Modeling Language is a _____.			
A)	Testing Language	B)	Network Design Tool
C)	Programming Language	D)	Data Flow Diagram
E)	Modeling Language		

The End