RESEARCH METHODOLOGY

Courage is not only the basis of virtue; it is its expression. Faith, hope, charity and all the rest don't become virtues until it takes courage to exercise them. There are roughly two types of courage. The first an emotional state which urges a man to risk injury or death, is physical courage. The second, more reasoning attitude which enables him to take coolly his career, happiness, his whole future or his judgement of what he thinks either right or worthwhile, is moral courage.

I have known many men, who had marked physical courage, but lacked moral courage. Some of them were in high places, but they failed to be great in themselves because they lacked moral courage. On the other hand I have seen men who undoubtedly possessed moral courage but were very cautious about taking physical risks. But I have never met a man with moral courage who couldn't, when it was really necessary, face a situation boldly.

1.	A man of courage is:		
	(A) cunning	(B)	intelligent
	(C) curious	(D)	careful
2.	Physical courage is an expression of	:	
	(A) emotions	(B)	deliberation
	(C) uncertainty	(D)	defiance
3.	A man with moral courage can:		
	(A) defy his enemies	(B)	overcome all difficulties
	(C) face a situation boldly	(D)	be very pragmatic
4.	People with physical courage of ten	lack	:
	(A) mental balance	(B)	capacity for reasoning
	(C) emotional stability	(D)	will to fight

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P.T.O.

M-PHD-CSE(4)-A

	(A) faith	(B)	charity
	(C) courage	(D)	hope
	At this stage of civilisation, when m	any na	ations are brought into close and vital
	contact for good and evil, it is essent	ial, as	never before, that their gross ignorance
	of one another should be diminished,	that t	hey should begin to understand a little
	of one another's historical experience	e and	resulting mentality. It is the fault of
	the English to expect the people of o	ther co	ountries to react as they do, to political
	and international situations. Our gen	uine g	oodwill and good intentions are often
	brought to nothing, because we expe	ct oth	er people to be like us. This would be
	corrected if we knew the history, no	ot nece	essarily in detail but in broad outlines,
	of the social and political conditions	which	have given to each nation its present
	character.		
6.	According to the author of 'Mentalit	y' of	a nation is mainly product of its:
	(A) history	(B)	international position
	(C) politics	(D)	present character
7.	The need for a greater understanding	g betw	veen nations :
	(A) was always there	(B)	is no longer there
	(C) is more today than ever before	(D)	will always be there
8.	The character of a nation is the resu	ult of	its:
	(A) mentality	(B)	cultural heritage
	(C) gross ignorance	(D)	socio-political conditions
M-P	HD-CSE(4)-A	2	

5.

All virtues become meaningful because of:

9.	According to the author his countrymen should:			
	(A) read the story of other nation	S		
	(B) have a better understanding o	f other	nations	
	(C) not react to other actions			
	(D) have vital contacts with other	nation	S	
10.	Englishmen like others to react to	politica	al situations like :	
	(A) us	(B)	themselves	
	(C) others	(D)	each others	
11.	Airports Authority of India approv 'DigiYatra' scheme for this citi's A		acial recognition tec	hnology under the
	(A) Hyderabad International Airpo	rt		
	(B) Chennai International Airport			
	(C) Mumbai International Airport			
	(D) Kolkata International Airport			
12.	A dishonest milkman professes to swater and thereby gains 25%. The		-	
	(A) 4%	(B)	61/4 %	
	(C) 20%	(D)	25%	
13.	In what ratio must water be mixed mixture at cost price ?	ed with	milk to gain $16\frac{2}{3}$	% on selling the
	(A) 1:6	(B)	6:1	
	(C) 2:3	(D)	4:3	
N 4 F	DUD CCE/A) A	2		D T O

14.	Three pipes A, B and C can fill a t	ank in 6 hours. After working at it together
	for 2 hours, C is closed and A and	B can fill the remaining part in 7 hours. The
	number of hours taken by C alone	to fill the tank is:
	(A) 10	(B) 12
	(C) 14	(D) 16
15.	Two pipes A and B can fill a tank	in 15 minutes and 20 minutes respectively.
	Both the pipes are opened together b	out after 4 minutes, pipe A is turned off. What
	is the total time required to fill the	tank ?
	(A) 10 min. 20 sec.	
	(B) 11 min. 45 sec.	
	(C) 12 min. 30 sec.	
	(D) 14 min. 40 sec.	
16.	The present ages of three persons in	n proportions 4 : 7 : 9. Eight years ago, the
	sum of their ages was 56. Find the	ir present ages (in years).
	(A) 8, 20, 28	
	(B) 16, 28, 36	
	(C) 20, 35, 45	
	(D) None of the above	
17.	Q is as much younger than R as he	is older than T. If the sum of the ages of R
	and T is 50 years, what is definitel	y the difference between R and Q's age?
	(A) 1 year	(B) 2 years
	(C) 25 years	(D) Data inadequate
M-P	HD-CSE(4)-A	4

18.	Two ships are sailing in the sea on the two sides of a lighthouse. The angle elevation of the top of the lighthouse is observed from the ships are 30° as		
			-
		100	m high, the distance between the two
	ships is:		
	(A) 173 m	(B)	200 m
	(C) 273 m	(D)	300 m
19.	angle of elevation of 30° with the	man's	the top of a tower, which makes an seye. The man walks some distance he angle of the elevation becomes 60°. the tower and the point P?
	(A) 43 units	(B)	8 units
	(C) 12 units	(D)	Data inadequate
20.	Find the odd man out :		
	1, 4, 9, 16, 23, 25, 36		
	(A) 9	(B)	23
	(C) 25	(D)	36
21.	Find the odd man out:		
	10, 14, 16, 18, 21, 24, 26		
	(A) 26	(B)	24
	(C) 21	(D)	18
22.	Find the odd man out :		
	835, 734, 642, 751, 853, 981, 532		
	(A) 751	(B)	853
	(C) 981	(D)	532

23. Evaluate:

$$\frac{\left(2.39\right)^2 - \left(1.61\right)^2}{2.39 - 1.61}$$

(A) 2

(B) 4

(C) 6

(D) 8

24. The value of $\frac{(0.96)^3 - (0.1)^3}{(0.96)^2 + 0.096 + (0.1)^2}$ is :

(A) 0.86

(B) 0.95

(C) 0.97

(D) 1.06

25. On what dates of April, 2001 did Wednesday fall?

- (A) 1st, 8th, 15th, 22nd, 29th
- (B) 2nd, 9th, 16th, 23rd, 30th
- (C) 3rd, 10th, 17th, 24th
- (D) 4th, 11th, 18th, 25th

26. A right triangle with sides 3 cm, 4 cm and 5 cm is rotated the side of 3 cm to form a cone. The volume of the cone so formed is:

(A) $12\pi \text{ cm}^3$

(B) $15\pi \text{ cm}^3$

(C) $16\pi \text{ cm}^3$

(D) $20\pi \text{ cm}^3$

27. A cistern 6 m long and 4 m wide contains water up to a depth of 1 m 25 cm. The total area of the wet surface is :

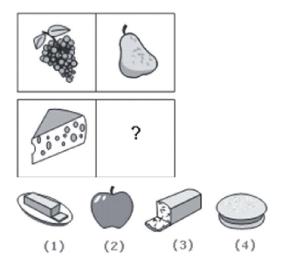
(A) 49 m^2

(B) 50 m^2

(C) 53.5 m^2

(D) 55 m^2

28. Choose the picture that would go in the empty box so that the two bottom pictures are related in the same way as the top two are related.



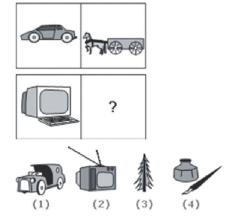
(A) 1

(B) 2

(C) 3

(D) 4

29.



(A) 1

(B) 2

(C) 3

(D) 4

In each of the following questions, two statements numbered I and II are given. There may be cause and effect relationship between the two statements. These two statements may be the effect of the same cause or independent causes. These statements may be independent causes without having any relationship. Read both the statements in each question and mark your answer as

30. 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

31. Statements:

- I. The government has recently fixed the fees for professional courses offered by the unaided institutions which are much lower than the fees charged last year.
- II. The parents of the aspiring students launched a severe agitation last year protesting against the high fees charged by the unaided institutions.
- (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

32. Statements:

I. The Reserve Bank of India has recently put restrictions on few small banks

in the country.

II. The small banks in the private and co-operative sector in India 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

In each question below are given two statements followed by two conclusions

numbered I and II. You have to take the given two statements to be true even if

they seem to be at variance from commonly known facts. Read the conclusion

and then decide which of the given conclusions logically follows from the two

given statements, disregarding commonly known facts.

Give answer:

33. 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

34. Statements: Some kings are queens. All queens are beautiful.

Conclusions:

- I. All kings are beautiful.
- II. All queens are kings.
- (A) Only conclusion I follows
- (B) Only conclusion II follows
- (C) Either I or II follows
- (D) Neither I nor II follows

Each of the following questions contains a small paragraph followed by a question on it. Read each paragraph carefully and answer the question given below it.

35. 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.

36. Due to enormous profits involved in smuggling, hundreds of persons have been attracted towards this anti-national activity. Some of them became millionaires overnight. India has a vast coastline both on the Eastern and Western Coast. It has been a heaven for smugglers who have been carrying on their activities with great impunity. There is no doubt, that from time to time certain seizures were made by the enforcement authorities, during raids and ambush but even allowing these losses the smugglers made huge profits.

The passage best supports the statement that:

- (A) smuggling hampers the economic development of a nation.
- (B) smuggling ought to be curbed.
- (C) authorities are taking strict measures to curb smuggling.
- (D) smuggling is fast increasing in our country owing to the quick profit it entails

 Each question has an underlined word followed by four answer choices. You will

 choose the word that is a necessary part of the underlined word.

37. lightning:

(A) electricity

(B) thunder

(C) brightness

(D) rain

38. cage:

(A) enclosure

(B) prisoner

(C) animal

(D) zoo

39. The film director wants an actress for the lead role of Lucy who perfectly fits the description that appears in the original screenplay. He is not willing to consider actresses who do not resemble the character as she is described in the screenplay, no matter how talented they are. The screenplay describes Lucy as an average-sized, forty something redhead, with deep brown eyes, very fair skin, and a brilliant smile. The casting agent has four actresses in mind.

Actress #1 is a stunning red-haired beauty who is 5'9" and in her mid-twenties. Her eyes are brown and she has an olive complexion.

Actress #2 has red hair, big brown eyes, and a fair complexion. She is in her mid-forties and is 5'5".

Actress #3 is 5'4" and of medium build. She has red hair, brown eyes, and is in her early forties.

Actress #4 is a blue-eyed redhead in her early thirties. She's of very slight build and stands at 5'.

(A) 1, 2

(B) 2, 3

(C) 1, 4

(D) 2, 4

40. Mrs. Carson took a taxi to meet her three friends for lunch. They were waiting for her outside the restaurant when she pulled up in the car. She was so excited to see her friends that she left her tote bag in the taxi. As the taxi pulled away, she and her friends took notice of the license plate number so they would be able to identify the car when they called the taxi company.

#1: The four women seem to agree that the plate starts out with the letter J.

#2: Three of them agree that the plate ends with 12L.

#3: Three of them think that the second letter is X, and a different three think that the third letter is K.

The four license plate numbers below represent what each of the four women thinks she saw. Which one is most likely the license plate number of the taxi?

(A) JXK 12L

(B) JYK 12L

(C) JXK 12I

(D) JXX 12L

41.	Who among the following has been	n elec	ted the new President of International
	Boxing Association (AIBA) ?		
	(A) Thomas Bach	(B)	P. S. Bopanna
	(C) Will Smith	(D)	Gafur Rakhimov
42.	Which port plans to host an edible captive cargo ?	oil re	finery to maximise revenue and ensure
	(A) Jawaharlal Nehru Port Trust		
	(B) Kandla Port		
	(C) Mormugao Port		
	(D) Paradip Port		
43.	How many MoU's signed on India-	Japan	Annual Summit 2018 ?
	(A) 32	(B)	25
	(C) 18	(D)	10
44.	This country tops in the FIFA's wo	rld raı	nkings :
	(A) France	(B)	England
	(C) Belgium	(D)	Argentina
45.	A Japanese rocket lifted off the Uni	ted Aı	rab Emirates first locally made satellite,
	the KhalifaSat Earth observation sate	ellite,	into orbit. The name of the rocket is:
	(A) Sakigake	(B)	M-V rocket
	(C) Ohsumi	(D)	H2A

(A) Intel (B) Cisco Systems (C) IBM (D) Oracle 47. Who will be the head of 'Approach to Agriculture: A Holistic Overviapproach to agriculture for doubling farmer's income? (A) Urjit Patel (B) Ram Naik (C) Ananth Kumar (D) Lecla Chandran 48. Name the Boxer who has been nominated for the Dronacharya Award for in Boxing: (A) Omkar Yadav (B) Subedar Chenanda Achaiah Kuttappa (C) Premkumar (D) Ram Niwas 49. India has launched Green Agriculture project along with which internorganisation to bring transformative change in the farm sector? (A) UNESCO (B) UNODC (C) ILO (D) FAO 50. Recently, India and signed the revised Air Services Agreeme (A) Turkey (B) Egypt (C) Morocco (D) Israel	46.	Which company has acquired a s	software company Red Hat, recently ?
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(A) Turkey (B) Egypt	49.	organisation to bring transformation (A) UNESCO	tive change in the farm sector ? (B) UNODC
	50.	Recently, India and	signed the revised Air Services Agreement.
(C) Morocco (D) Israel		(A) Turkey	(B) Egypt
		(C) Morocco	(D) Israel

COMPUTER SCIENCE & ENGINEERING

51.	Which one of the following is know	n as	response time or latency ?
	(A) cycle time	(B)	memory time
	(C) access time	(D)	time
52.	Which one of the following circuits	is cap	able of storing one bit of information?
	(A) full adder	(B)	half adder
	(C) flip-flop	(D)	combinational circuit
53.	How many stable states are there in	n a si	mple flip-flop ?
	(A) 5	(B)	2
	(C) 3	(D)	4
54.	Which command is used to show	the c	contents of the file on the screen in
	LINUX ?		
	(A) cat	(B)	man
	(C) pwd	(D)	echo
55.	How many bytes of memory are rec	uired	to store an integer ?
	(A) 8	(B)	2
	(C) 4	(D)	1
56.	The expression XYZ + XYZ + XY	Z is c	called:
	(A) Canonical sum		
	(B) Sum of standard product terms		
	(C) Sum of minterms		
	(D) Cartesian product		

57.	DeMorgan's second theorem is:		
	(A) $\overline{A.B} = \overline{A} + \overline{B}$	(B)	$\overline{A.B} = \overline{A} \cdot \overline{B}$
	(C) $A.B = A-B$	(D)	A.B = A + B
58.	The device that accomplishes the r	nodulat	ion-demodulation process is called :
	(A) flip-flop	(B)	MODEM
	(C) chip	(D)	CPU
59.	Job scheduling led to the concept l	known	as the :
	(A) SPOOLING	(B)	resident monitors
	(C) time-sharing	(D)	multiprogramming
60.	Sending a message to a group is c	alled:	
	(A) multitasking	(B)	group message
	(C) routing	(D)	multicast routing
61.	An open source testing tool used to	test th	ne performance of the application when
	it is under heavy load is:		
	(A) Apache JMeter	(B)	Loadrunner
	(C) TSL	(D)	PSP
62.	holds the information bet	fore it	goes to the decoder.
	(A) Control register	(B)	Bus register
	(C) Data register	(D)	Address register
63.	The Clique problem is:		
	(A) NP-Complete	(B)	NP-Hard
	(C) NP-Soft	(D)	MST
M-P	PHD-CSE(4)-A	16	

64.	The COCOMO model deals with:		
	(A) software cost	(B)	software risk
	(C) scheduling	(D)	testing
65.	What type of language is Visual B	asic ?	
	(A) object-based	(B)	object-oriented
	(C) pure OOPS language	(D)	hypertext
66.	VIRUS stands for :		
	(A) Very Intelligent Result Until S	ource	
	(B) Very Interchanged Resource U	nder S	earch
	(C) Vital Information Resource Un	ıder Si	ege
	(D) Viral Important Record User S	Searche	ed
67.	The mechanism by which two different called:	rent fil	e systems can be combined together is
	(A) mounting	(B)	paging
	(C) process	(D)	buddy system
68.	A binary semaphore can take only	one of	f the following 2 values :
	(A) 0 and 1	(B)	0 and 10
	(C) 0 and 2	(D)	1 and 10
69.	What is the range of values Proces	sID (P	PID) can take ?
	(A) 0 to 32767	(B)	0 to 128
	(C) 0 to 256	(D)	0 to 1024

70.	What is the system call to create a new process ?				
	(A) fork	(B) nice			
	(C) exec()	(D) brk()			
71.	A B-Tree of order m is an m-way	y search tree with:			
	(A) all leaves of the tree on the	same level			
	(B) each node, except for root a	and leaves, having less than m/2 subtrees			
	(C) the root of the tree having n	more than m subtrees			
	(D) all its leaves connected to for	orm a linked list			
72.	A browser is a software tool that	t helps:			
	(A) linking of application program	m modules			
	(B) viewing of application inform	mation			
	(C) developing application programs				
	(D) debugging of application soft	tware			
73.	Which of the following is not an	element of C?			
	(A) tokens	(B) identifiers			
	(C) datatypes	(D) structures			
74.	Which of the following is not an	element of C++?			
	(A) tokens	(B) identifiers			
	(C) variables	(D) constructors			
75.	Name the two communication sat	tellites :			
	(A) geosynchronous and low-orbi	it			
	(B) synchronous and orbit				
	(C) geosynchronous and trunks				
	(D) trunks and tunneling				

76.	Which of the following is not a me	mory	management scheme ?
	(A) paging memory	(B)	lock
	(C) mutual exclusion	(D)	critical region
77.	Which of the following algorithm de	eals w	ith deadlock ?
	(A) Banker's algorithm	(B)	Bakery algorithm
	(C) RR	(D)	Priority algorithm
78.	Which of the following is not an as	ympto	tic notation ?
	(A) Big 'oh'	(B)	Omega
	(C) Theta	(D)	Alpha
79.	Kuhn-Tucker conditions deal with :		
	(A) non-linear programming	(B)	matroids
	(C) LPP	(D)	assignment problem
80.	The Max-Flow-Min-Cut theorem dea	ıls wit	h :
	(A) network flow problem	(B)	LPP
	(C) matroids	(D)	non-linear programming
81.	Internet-based broadcasting of audio	and v	video content is:
	(A) webcasting	(B)	webonomics
	(C) webhosting	(D)	web content design
82.	What is the cardinality of the set of	odd	positive integers less than 10 ?
	(A) 10	(B)	5
	(C) 3	(D)	20

83.	If for a square matrix A(non-singular) and B, null matrix O, AB = O then:					
	(A) B is a null matrix					
	(B) B is a non-singular matrix					
	(C) B is an identity matrix					
	(D) B is an inverse matrix					
84.	The complexity of linear search algorithm is :					
	(A) O(n)	(B)	O(log n)			
	(C) O(n2)	(D)	O(n log n)			
85.	The Worst case occur in linear se	arch alg	orithm when:			
	(A) Item is somewhere in the middle of the array					
	(B) Item is not in the array at all					
	(C) Item is the last element in the array					
	(D) Item is the last element in the array or is not there at all					
86.	Let P (x) denote the statement " $x > 7$ ". Which of these have truth value true ?					
	(A) P (0)	(B)	P (4)			
	(C) P (6)	(D)	P (9)			
87.	The statement," Every comedian is funny" where $C(x)$ is "x is a comedian" and					
	F (x) is "x is funny" and the domain consists of all people.					
	(A) $\exists x (C(x) \land F(x))$	(B)	$\forall x (C(x) \wedge F(x))$			
	(C) $\exists x (C(x) \rightarrow F(x))$	(D)	$\forall x (C(x) \to F(x))$			
M-F	PHD-CSE(4)-A	20				

88.	Which of the following groups is	are token together into semantic structures	s ?		
	(A) Syntax analyzer				
	(B) Intermediate code generation				
	(C) Lexical analyzer				
	(D) Semantic analyzer				
89.	What is the output of lexical ana	lyzer ?			
	(A) parse tree	(B) A list of tokens			
	(C) Intermediate code	(D) Machine code			
90.	Grammar of the programming is	checked at phase of compiler.			
	(A) Semantic analysis	(B) Syntax analysis			
	(C) Code optimization	(D) Code generation			
91.	1 is a process of finding a parse tree for a string of tokens.				
	(A) Parsing	(B) Analysing			
	(C) Recognizing	(D) Tokenizing			
92.	2. Lexical analysis is about breaking a sequence of characters into:				
	(A) Groups	(B) Packets			
	(C) Lines	(D) Tokens			
93.	Which of the following types of	f table constraints will prevent the entry	y of		
	duplicate rows ?				
	(A) Primary key	(B) Unique			
	(C) Null	(D) Foreign key			

94.	A co	pokie :				
	(A) Stores the password of the user					
	(B)	Stores information about the us	er's w	reb activity		
	(C)	Stores software developed by the	e use	r		
	(D)	Stores the-commands used by the	ne use	er		
95.	Which of the following is required to create an HTML document ?					
	(A)	Search engine	(B)	Text editor		
	(C)	Internet	(D)	Browser		
96.	Which of the following represents the fastest data transmission speed ?					
	(A)	Gbps	(B)	Kbps		
	(C)	Bps	(D)	Bandwidth		
97.	How many bits are there in the Ethernet address?					
	(A)	16 bits	(B)	32 bits		
	(C)	48 bits	(D)	64 bits		
98.	The slowest transmission speeds are those of:					
	(A)	Coaxial cable	(B)	Twisted-pair wire		
	(C)	Fiber-optic cable	(D)	Microwaves		
99.	Which unit controls the movements of signals between CPU and I/O ?					
	(A)	Control unit	(B)	Memory unit		
	(C)	ALU	(D)	Secondary storage		
100.	Which of the following is the main circuit-board of the system unit ?					
	(A)	Motherboard	(B)	Intel board		
	(C)	Graphics board	(D)	Control unit		