B.Tech. DEGREE EXAMINATION, DECEMBER 2023

Second Semester

18PDH101T - GENERAL APTITUDE

(For the candidates admitted during the academic year 2020-2021 & 2021-2022)

Time: Two Hours						Max	. Ma	ırks:	100	
Name of the Candidate	:									
Register Number	:									
Signature of the Candidate	:		8							

INSTRUCTIONS TO THE CANDIDATE

- 1. The Question Booklet contains 80 Questions.
- 2. ANSWER ALL the questions. This paper contains TWO parts.
- 3. CALCULATORS OR ANY OTHER MATHEMATICAL DEVICES ARE NOT ALLOWED.
- 4. Write your **NAME**, **REGISTER NUMBER** and put your **SIGNATURE** in the places specified on the first page of this Question Booklet.
- 5. Do not open this Question Booklet until the Hall Superintendent signals the commencement of the examination.
- 6. Check whether the Answer Sheet and the Question Booklet are in good condition. If not, before writing anything on the Answer Sheet, ask for the replacement of the Question Booklet / Answer Sheet.
- 7. Write and shade your REGISTER NUMBER, in the specified place in the OMR coding sheet.
- 8. Write and shade the question paper version code in the specified place in the OMR coding sheet.
- 9. Answer should be shaded with BLUE or BLACK BALL PEN in the Coding Sheet.
- 10. All instructions given in the **OMR** coding sheet should be strictly followed.
- 11. Use Answer Sheet carefully. No spare Answer Sheet will be given.
- 12. The answer should be given only in the Answer Sheet.
- 13. The last few pages of the Question Booklet are blank, except for the words 'Rough Work'. You can use them for any rough calculations.

PART - A (50 Marks)

Question No. 1 to 10 carries 2 marks each Question No. 11 to 40 carries 1 mark each 1. Determine the units digit of 9¹²³ (A) 1 (B) 9 (C) 3 (D) 6 2. Find the digit * that should replace the question mark in the number 4*371 to make it divisible by 9. What digit should replace? (A) 3 (B) 6 (C) 0 (D) 9 3. If 5^{15} is divided by 5, what is the remainder? (A) 4 (B) 0 (C) 1 (D) 3 4. How many zeros are at the end of 120!? (A) 27 (B) 28 (C) 29 (D) 30 5. The LCM of two numbers is 60, and their HCF is 6. If one of the numbers is 12, what is the other number? (A) 10 (B) 15 (C) 20 (D) 30 6. A teacher has 30 math textbooks and 45 English textbooks. If she wants to distribute these textbooks to her students so that each student receives an equal number of textbooks and no textbook is left, what is the maximum number of students she can distribute the textbooks to? (A) 5 (B) 9 (C) 15 (D) 3 7. If the price of a product is increased by 25%, by what percentage should it be reduced to bring it back to its original price? (A) 15% (B) 17.5% (C) 18% (D) 20% 8. A company's profit increased from Rs. 50,000 to Rs. 60,000 in one year. What is the percentage increase in profit? (A) 10% (B) 15% (C) 20% (D) 25% 9. A store offers a discount of 25% on a pair of shoes. If the original price of the shoes is Rs.80, what is the discounted price? (A) Rs.20 (B) Rs. 40 (C) Rs. 60 (D) Rs.75

Instructions:

10.	A smartphone's price decreased from Rs. 400 price?	Rs. 350. Wha	t is the percentage decrease in
	(A) 10% (C) 13%	3) 12.5% 0) 15%	
11.	In a school, the number of students in Class Class B. If there are 200 students in Class B, (A) 240 (C) 200	is 20% more to w many studer (a) 250 (b) 260	han the number of students in its are there in Class A?
12.	How many employees in the company belonare engineers, and 25% are managers out of a (A) 75 (C) 150	to the support stal of 500 emp s) 100 o) 90	staff category, given that 60% loyees?
13.	An alloy contains 25 % of copper. What qua (A) 1000 g (C) 2500 g	cy of alloy is re 3) 1500 g 3) 2000 g	quired to get 500 g of copper?
14.	A bicycle is sold for Rs. 240, and this repre the cost price of the bicycle? (A) Rs. 210 (C) Rs. 220	ats a profit of 2 3) Rs. 200 0) Rs. 230	0% on the cost price. What is
15.	Sri deposited Rs. 5,000 into a savings accoumuch interest will he earn in 3 years? (A) Rs. 200 (C) Rs. 600	that pays an ar 3) Rs. 400 0) Rs. 300	nual interest rate of 4%. How
16.	If an amount of Rs. 800 earns Rs.160 in int how many years was the money invested? (A) 7 years	st at a simple is 3) 10 years	nterest rate of 4% per annum,
17.	(C) 9 years Varsha invested Rs. 5000 in a savings acc compounded annually. How much money w (A) Rs.5000 (C) Rs. 6050	o) 5 years that pays are she have in the Rs. 5400 Rs. 5300	annual interest rate of 10%, account after 2 years year?
18.	Nidhi borrowed Rs. 2,000 from a bank and rate of interest per annum? (A) 10% (C) 15%	paid Rs. 2,600 B) 12% D) 9%	after 3 years. Find the annual
19.	The compound interest on Rs. 30,000 at 12 is:	per annum is F	ts. 7632. The period (in years)
	(A) 2.5 years (C) 3 years	3) 2 years3) 3.5 years	

20.	(A) 400	ne scores 460 marks, find the maximum marks. (B) 500
	(C) 600	(D) 300
21.	Find the remainder when 12345678910	- · ·
	(A) 3 (C) 2	(B) 0 (D) 1
	(C) 2	(D) 1
22.	Find <i>x</i> if $\log_5(x-7) = 1$.	
	(A) 10	(B) 15
	(C) 12	(D) 18
23.	The least perfect square number which is	divisible by 3, 4, 6 and 8 is
	(A) 900	(B) 3600
	(C) 2500	(D) 4900
24	Find the single discount agriculant to true	guangaire discounts of 100/ out 1000/
27.	Find the single discount equivalent to two (A) 27%	(B) 25%
	(C) 30%	(D) 28%
	*	(-) 20,0
25.	Find the remainder when 1689 is divided b	y 5
	(A) 1	(B) 16
	(C) 0	(D) 5
26.	Find the value of x, if $log_{10}(x-10) = 1$.	
	(A) 10	(B) 15
	(C) 20	(D) 30
27	If $log_a(ab) = x$, then $log_b(ab) = ?$	
27,	(A) $1/x$	(B) $x/(x+1)$
	(C) $x/(1-x)$	(D) $x/(x-1)$
	*	
28.	The value of $(\log_5(5))(\log_4(9))(\log_3(2))$ is	
	(A) 1 (C) 2	(B) 3/2
	(C) 2	(D) 5
29.	The value of $log_{343}(7)$ is	
	(A) 1/3	(B) -3
	(C) -1/3	(D) 3
30	The sum of four consecutive even number	s is 292. What would be the smallest number?
50.	(A) 74	(B) 76
	(C) 70	(D) 68
31.	P, Q and R have Rs.6000 among themse and Q. Find the amount with R?	lves. R has two-thirds of the total amount with I
	(A) Rs.3000	(B) Rs.3600
	(C) Rs.2400	(D) Rs.4000

	a coherent paragraph:
Instructions: Question No. 41 to 50 carries 2 marks each Question No. 51 to 80 carries 1 mark each	1
PART – I	3 (50 Marks)
f '249' stands for 'softer than flower', '436 tands for 'sweet than smile', what would 'fr A) 6 C) 3	' stands for 'sweet flower fragrance' and '621 agrance' stand for? (B) 4 (D) 2
There are 24 students in a class. Supriya is ight? A) 17 C) 16	9 th from the left. What is her position from the (B) 18 (D) 15
Find the wrong term in the series 2,5,10,50,5 A) 5000 C) 10	00,5000 (B) 500 (D) 5
P is in the East of Q and Q is in the North lirection of P is S? A) South-East C) South-West	h of R. S is in the South of R then in which (B) South (D) North-East
A is the brother of B. C is the sister of D. B i A) Nephew C) Brother	s the son of C. How is A related to C? (B) Son (D) Cousin
Find the next term in the series 1, 2, 6, 7, 21, A) 201 C) 70	22, 66, 67, ? (B) 134 (D) 302
Choose the term that can replace? 2A11, 4D A) 36I19 C) 48J21	13, 12G17, ? (B) 36J21 (D) 48J23
The sum of the digits of a two-digit number number? A) 92 C) 75	is 12. The difference of the digits is 6. Find the (B) 39 (D) 48
Aunna's age 18 years hence will be unice ge? A) 15 years C) 18 years	(B) 21 years (D) 9 years
1	ge? A) 15 years C) 18 years the sum of the digits of a two-digit number number?

Q. Finally, an elderly person with a glow on his face walked in and said that he was a teacher. The king came down from his throne and bowed to honour the teacher.

14DF2-18PDH101T

41. P. The king was not impressed.

	R. There is a story about a king in ancient to	times	who wanted to honour a person that made
	the greatest contribution to the society. S. All kinds of people came, including do their cases for receiving the honor.	ctors	and entrepreneurs, and they all presented
	(A) QPRS (C) SPRQ		PQRS RSPQ
42.	P. He was so busy with them that he did not Q. Thousands of people came to him and asl		
	R. No one cared to see whether he had his for	ood c	or rest that night.
	S. Swami Vivekananda once stayed in a sm (A) QRSP		~
	(C) SQPR	, ,	RQPS SQRP
43.	P. Mr. Raman's personality sets him apart fro Q. Nothing is too small for his attention. R. He has a fanatical devotion to detail.	om th	ne rest.
	S. This is what makes him a different guy.		
	(A) PRQS	(B)	PQSR
	(C) QSRP		SRQP
44.	P. As a result, there was horrendous congest. Q. In Kolkata, trams ran down the center of a P. It was the first in South Asia and the form	the ro	
	R. It was the first in South Asia, and the four S. To ease this, the city decided to build an u		
	(A) PQRS		PRSQ PRSQ
	(C) QPSR	` ′	RSPQ
	In the question below, four different we indicated. Choose the best way of writing		
45.	Some MEMBERS OF THE TRIBE HAS	BEE	N PROTESTING against the hunting laws
	imposed on indigenous populations. (A) members of the tribe have been	(D)	tribo momboro has been mustarting
	protesting	(D)	tribe members has been protesting
	(C) tribe members will has been protesting	(D)	members of the tribe, having protested
46.	The intruder stood quietly for FEW MOME	NTS	
	(A) few moment		the few moments
	(C) a few moments	(D)	an few moment
47.	The setting of a story EFFECTS THE STO		
	(A) affect the story's plot		affects the story's plot
	(C) effect the story's plot	(D)	having effected the story's plot
48.	If I WOULD HAVE KNOWN about the tea	am's	objectives, I would have signed up for
	them.	,_ ·	· -
	(A) had known(C) having been known	` '	knows will know

49.	(A) didn't he	(B)	doesn't he
	(C) hasn't he	` '	does he
		1	4
50.	The man TO WHO I SOLD my house was		eat. to who I sell
	(A) to whom I sell	` '	
	(C) who was sold to	(D)	to whom I sold
	Choose the SYNONYM of the word in CA	APIT.	AL LETTERS:
51.	The bullet wound proved to be FATAL, and	l the s	soldier died immediately
	(A) deadly		friendly
	(C) lovely	(D)	softly
52.	Silence is MANDATORY for meditation to	be e	ffective.
<i>-</i>	(A) tertiary		compulsory
	(C) needless	. ,	useless
53	The President paid a BRIEF visit to Moscov	W.	
55.	(A) fast		slot
	(C) short	` '	casual
E 1	The child was RESCUED from a burning h	Olice	
34.			missed
	(A) lost	` ′	saved
	(C) found	(D)	Saveu
55.	A RUPTURE in the relationship of the two		
	(A) break	\ /	bond
	(C) link	(D)	union
56.	She can CONVERSE fluently for hours.		
	(A) write	(B)	speak
	(C) listen		read
	Choose the ANTONYM of the word in Ca	APIT	AL LETTERS:
57.	Many people try to RESIST reforms in soci		
	(A) fight	` '	rebel
	(C) accept	(D)	withdraw
58.	void joking about anything that might be mi	stake	n for an INSULT .
	(A) hurt	(B)	offence
	(C) abuse	(D)	honour
59.	No ARTIFICIAL sweeteners are used in the	nis pro	oduct.
J.,	(A) natural	_	forced
	(C) synthetic	, ,	solid
	(-) -)	(-)	

60.	The new evidence only CONFUSED matters	furt	ther.
	(A) disturbed	(B)	clarified
	(C) shook	(D)	startled
61.	The Chairman INITIATED the proceedings	with	a brief speech.
		(B)	progressed
	(C) imitated	(D)	completed
62.	Bears lay DORMANT in their den in winter.		
		(B)	resting
	(C) active	(D)	inactive
	Choose the option that best completes the s	ente	ence semantically/grammatically:
63.	People who tend to their responsibilit	ies a	re never successful.
		(B)	complete
	(C) finish	(D)	avoid
64.	You must not from the agreed rou	ıte.	
			follow
	(C) adhere	(D)	comply
65.	I really don't know how to the problem	ι.	
	/ · · · · ·		tackle
	(C) enter	(D)	fit
66.	After starting at menu for five minutes,	Jane	ordered some food.
	(A) the	(B)	a
	(C) an	(D)	no article
67.	How oranges did you put in the box?		
	(A) some	(B)	a little
	(C) many	(D)	less
68.	My uncle decided to take and my sist	er to	the market.
	(A) I	(B)	mine
	(C) me	(D)	myself
	Identify the part of the sentence that contain "No Error" option:	ins a	an error. If there is no error, choose the
69.	Students has (A) the responsibility (B) to students	ly w	ell. (C) No Error (D)
70.	The teacher said (A) that the earth moves (B)	for t	the sun. (C) No error (D)
71.	This exercise (A) are harder than (B) the pre	viou	s one. (C) No error. (D)
72.	Thousands of people (A) came to him and ask (D).	cs (B	s) different types of questions. (C) No error

- 73. My house (A) is better (B) than John. (C) No error (D).
- 74. One of the questions (A) he asked me was (B) "Who did you travel with?" (C) No error (D).

Choose the pair that has a similar relationship to that of the question pair:

75. Gloves: Hands::

(A) Neck: Collar

(C) Socks: Feet

(B) Tie: Shirt

(D) Coat: Pocket

76. Scales: Fish::

(A) Bear: Fur

(C) Skin: Man

(B) Woman: Dress

(D) Tree: Leaves

77. Elephant: Herbivorous::

(A) Tiger: carnivorous

(C) Snail: mollusc

(B) Vegetarian: omnivorous

(D) Canine: dog

78. Botany: Plants::

(A) Geology: earth

(C) Teacher: class

(B) Stars: astronomy

(D) Disease: etiology

79. Pork: Pig::

(A) Rooster: chicken

(C) Steer: beef

(B) Mutton: sheep

(D) Lobster: crustacean

80. After: Before::

(A) First: second

(C) Contemporary: historic

(B) Present: past

(D) Successor: predecessor

* * * * *

WORK SHEET

Page **10** of **10**