B.Tech. DEGREE EXAMINATION, JUNE 2024

Second Semester

18PDH101T - GENERAL APTITUDE

(For the candidates admitted during the academic year 2018-2019 to 2021-2022)

Time: Two Hours						Max	k. Ma	arks	: 100)
Name of the Candidate	:									
Register Number	: [
Signature of the Candidate	:									

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.

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PART - A (50 Marks)

instructions:						
(i)	Question No. 1 to 10 carries 2 marks each					
(ii)	Question No. 11 to 40 carries 1 mark each					

	(h) Question 110: 11 to 40 carries 1	mai K	Cacii
1.	Which of the following is an even prime nu (A) 2 (C) 6	mber (B) (D)	4
2.	Find the units digit of (603) ²⁰³ . (A) 1 (C) 5	(B) (D)	
3.	Find $\sqrt{1024} - \sqrt{4^3}$. (A) 22 (C) 27	(B) (D)	
4.	Convert the recurring decimal 14.28571428 (A) 100/3 (C) 100/7	(B)	2857 into fraction. 100/5 100/9
5.	If x% of 500 = 250% of 50, then find x. (A) 20 (C) 40	(B) (D)	
6.	If the price of petrol is increased by 25% should be decreased so that the total expend (A) 20 (C) 30		remains the same? 25
7.	Find the discount %, if the marked price 12,800. (A) 10 (C) 20	of a (B) (D)	15
8.	A sum of money of ₹ 40,000 invested for annum. Find the simple interest at the end of (A) ₹ 15,000 (C) ₹ 20,000	of 3 ye (B)	
9.	Find $\log \log_{9^3} 27^2$		
	(A) 0 (C) 3	(B) (D)	
10.	A cloth of length 200 cm is cut into two pithan thrice the second piece. What is the length (A) 60 cm (C) 100 cm	igth o	

1.1	T11	10101	• -	1::-:1-1:	1	1_: _1_	10
11.	The number	19101	1S	aivisible	v	wnich	number!

(A) 3

(B) 11

(C) 15

(D) 23

12. Find the LCM of
$$\frac{3}{4}$$
, $\frac{5}{7}$ and $\frac{1}{2}$

(A) 5

(B) $\frac{10}{5}$

(C) 15

(D) $\frac{20}{7}$

(A) 24

(B) 27

(C) 31

(D) 33

(A) 2

(B) 4

(C) 6

(D) 8

(A) 3

(B) 16

(C) 19

(D) 35

(A) 94

(B) 95

(C) 96

(D) 97

17. Evaluate
$$\sqrt[3]{1728} - \sqrt[3]{729}$$

(A) 2

(B) 3

(C) 4

(D) 5

$$18$$
. Find the remainder of 86^3 when divided by 17.

(A) 0

(B) 1

(C) 2

(D) 3

19. Solve:
$$(2x + y)(2x - y)$$

(A) $2x^2$

(B) y^2

(C) $2x^2 - 2y^2$

(D) $4x^2 - y^2$

(A) 4

(B) 8

(C) 10

(D) 12

21.	Simplify $3\frac{1}{2} + 7\frac{1}{4} - 2\frac{3}{4}$		
	(A) $10\frac{3}{4}$	(B)	$13\frac{1}{2}$
	(C) 12	(D)	-
22.	Evaluate $\sqrt{42 + \sqrt{42 + \sqrt{42 + \dots}}}$		
	(A) 3	(B)	
	(C) 7	(D)	10
23.	If a\% of b\% of $c = b\%$ of d\% of a then find c	c.	
	(A) a	(B)	
	(C) c	(D)	d
24.	A batsman has an average score of 88 runs 30 runs in his last two innings respectively. I	Find (B)	his new average? 90
	(C) 40	(D)	50
25.	The length and breadth of a rectangle is inc by what percentage the area of the rectangle (A) 50	gets	increased?
	(C) 60	` '	56 65
		(D)	
26.	Find the cost price of a shirt, if its selling pri	ce is	₹ 1,800 and its loss is 10%
	(A) ₹1,500		₹ 1,600
	(C) ₹2,000	(D)	₹ 2,100
27,	Find the single discount equivalent to succes	sive	discounts of 10%, 20% and 25%.
	(A) 30%		45%
	(C) 55%	(D)	46%
28.	A coat is sold for ₹ 2,400 with a discount of	₹ 40	0. Find its marked price
	(A) ₹2,800	(B)	₹ 2,000
	(C) ₹2,200	(D)	₹ 2,600
29.	Two products are sold for the same price. O is a loss of 20%. Find the profit or loss in the	ove	rall transaction.
	(A) 2% profit	, ,	4% loss
	(C) 4% profit	(D)	2% loss
30.	Selling price of 8 calculators is same as opercentage.	cost	price of 10 calculators. Find its profit
	(A) 20%	` /	25%
	(C) 40%	(D)	50%
31.	A sum of money becomes ₹ 12,000 at the esimple interest. Find the interest	end o	of 2 years at the rate of 10% per annum
	(A) ₹1,000	, ,	₹ 2,000
	(C) ₹4,000	(D)	₹ 500

32.	Find the compound interest on a sum of ₹ annually.	1,000 at 10% p.a for 3 years compounded
	(A) 1331	(B) 1300
	(C) 331	(D) 300
33.	A sum of money doubles itself in 8 years ur will it triples itself?	nder simple interest. If so in how many years
	(A) 8	(B) 12 (D) 16
	(C) 14	(D) 16
34.		all ments, one installment at the end of every
	(A) ₹ 18,000	(B) ₹20,000
	(C) ₹21,600	(D) ₹24,720
35	Find $\log_7 49$	
55.	(A) 1	(B) 0
	(C) 2	(D) 7
		5
36.	Find the value of the expression $\frac{1}{1 + \log_u vw}$	$+\frac{1}{1+\log_{v}wu}+\frac{1}{1+\log_{w}uv}$
	(A) 0	(B) 1
	(C) u	(D) uvw
37.	Find the number of digits in 2^{150} . (If $\log 2 = 0$)	0.3010)
07.	(A) 40	(B) 45
	(C) 46	(D) 50
38.		3,000 for stand C and ₹ 4,000 for stand E. 80 ected. How many tickets from stand E was
	(A) 20	(B) 30
	(C) 40	(D) 50
39.		vice Harichandran's age. Sugichandran's age n's age. If Sugichandran's age is 3 times of chandran? (B) 17 (D) 19
40.	A number consists of two digits, the sum of number, its digits are interchanged. What is t	f the digits is 9. If 45 is subtracted from the the number?
	(A) 63	(B) 72
	(C) 81	(D) 90

PART – B (50 Marks)

Instructions:

- (i) Question No. 41 to 50 carries 2 marks each
- (ii) Question No. 51 to 80 carries 1 mark each

Choose the synonym of the question word from the given options:

- 41. Gratify
 - (A) Satisfy

(B) Modify

(C) Require

(D) Neglect

- 42. Scholarly
 - (A) Unintelligent
 - (C) Knowledgeable

- (B) Dull
- (D) Stupid

- 43. Enhanced
 - (A) Improved
 - (C) Destroyed

- (B) Diminished
- (D) Reduced

- 44. Cherished
 - (A) Digested
 - (C) Avoided

- (B) Rejected
- (D) Insulted

- 45. Inflexible
 - (A) Gentle
 - (C) Soft

- (B) Adamant
- (D) Friendly

Choose the antonym of the question word from the given options:

- 46. Revenge
 - (A) Forgive
 - (C) Dedicate

- (B) Avenge
- (D) Determine

- 47. Thoughtful
 - (A) Ruminative
 - (C) Empty-minded

- (B) Meditative
- (D) Preoccupied

- 48. Created
 - (A) Destroyed
 - (C) Moulded

- (B) Manufactured
- (D) Shaped

- 49. Comic
 - (A) Tragic
 - (C) Laughable
- (B) Hilarious
- (D) Jocular

- 50. Unpleasant
 - (A) Unacceptable
 - (C) Decent

- '(B) Nasty
 - (D) Unrefined

Pick the odd word:

51.	(A) Think	(B) Reflect	(C) Type	(D) Consider
52.	(A) Warm	(B) Hot	(C) Cool	(D) Sultry
53.	(A) Valley	(B) River	(C) Mountain	(D) Tower
54.	(A) Lively	(B) Bubbly	(C) Happy	(D) Dull
55.	(A) Barbaric	(B) Savage	(C) Decent	(D) Uncivilized
	Choose the pa questions pair:		est express the relat	cionship similar to that of the
56.	Sheep: Wool: (A) Fodder: A (C) Flax: Cott	nimal	(B) Otter: (D) Animal	Fur l : Vegetable
57.	Botany: Plants (A) Geology: (C) Teacher: C	Earth	(B) Stars: (D) Disease	-
58.	Word: Dictiona (A) Roe: Fish (C) Teeth: Mo		(B) Cell : E (D) Hail : S	•
59.	Tyre: Rubber : : (A) Oasis : Des (C) Paper : Wo	sert	(B) House (D) Pebble	
60.	Whale: Fish:: (A) Hound: Do (C) Alligator:	•	(B) Bat : B (D) Fly : W	
	Complete the f	ollowing sentences	with the options give	en below:
61.	An stud (A) Ecumenica (C) Ecological	il	influence of environm (B) Endem (D) Epigrap	ic
62.	It is not reason him. (A) Depict (C) Defame	able to insult and _	the man simply (B) Engrav (D) Distort	
63.		in Chennai since 20	` ,	

64.	A fruit sweet and so are the children to their parents. (A) Taste (B) Tastes (C) Does (D) Do						
65.	Ramu agree with the establishments of life because he is a revolutionary. (A) Does (B) Does not (C) Is (D) Was						
	Spot the error in the following sentences:						
66.	Raj has gone (A)/ to the library (B)/ and he will return back (C)/ to the class very soon (D)/.						
67.	She cannot able to (A) / express her love (B) / for me now since there (C)/ are some practical obstacles (D)/.						
68.	One in (A)/ six people (B)/ suffer from (C) / insomnia (D)/.						
69.	Lord Nelson (A) / is regarded as (B) one of (C)/ the greatest hero of London (D)/.						
70.	Manisha have bought (A) / a new car (B)/ for her son (C)/ on his birthday (D)/.						
	Choose the exact meaning of the idiomatic expressions given below:						
71.	The tortured man decided to <u>take the bull by the horns</u> to be peaceful. (A) To eat heavily (B) To starve (C) To be sand (D) To face a difficulty or danger boldly						
72.	A rotten apple in the class has been caught by the teacher. (A) A waste of energy (B) A bad person in a group (C) The failure of a plan (D) To be bold						
73.	Sudha has to <u>turn a new leaf</u> in her life. (A) New beginning (B) Become a vegetarian (C) Plant trees (D) Destroy forest						
74.	A <u>blue blooded</u> man can easily be identified. (A) Royal (B) Poor (C) Educated (D) Foolish						
75.	It is <u>raining cats and dogs</u> . (A) Raining heavily (B) Raining gently (C) No rain (D) Raining imperceptibly						
	Read the passage and answer the questions that follow: Dinosaurs are very interesting not only to children, but also to the people of all age.						

Dinosaurs are very interesting not only to children, but also to the people of all age groups. They are a diverse group of reptiles of the clade Dinosauria. There is a theory that the dinosaurs inhabiting the earth were destroyed when a huge heavenly body hit the earth. The impact of the heavenly body when it struck the earth threw a mass of pulverized debris into the atmosphere. This dust created a fog, which blocked the sunlight depleting plant life. This resulted in the perishing of the plant-eating dinosaurs, the meat-eating dinosaurs, which preyed on the plant-eaters, in turn starved to death.

70.	Inis passage is about		
	(A) The death of dinosaurs	(B)	The history of dinosaurs
	(C) The power of dinosaurs	(D)	Natural calamity
77:	Dinosaurs are a diverse group of reptiles of t	he cl	ade
	(A) Homosapiens	(B)	Homoerectus
	(C) Dinosauria	(D)	Cephalopod
78	The habitat of the dinosaurs was destroyed v	hen	
, 0	(A) A huge heavenly body hit the earth		A mountain was destroyed
	(C) An angle cursed the place	, ,	There was a fight among them
70	The fee areated blooked the depleting	~ ~1~	nt life
19.	The fog created blocked the depleting		
	(A) Sun light	(B)	Moon light
	(C) Rivers	(D)	Rain
80.	The meat-eating dinosaurs died because		
	(A) The plant-eating dinosaurs dies	(B)	Human beings started hunting them
	(C) They were infected with a virus		Of a strange disease
		` /	•

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WORK SHEET

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