उम्मीदवार इस पुस्तिका के सबसे ऊपरी सील को खोलकर पृष्ठ रांख्या 2 और 3 के मध्य स्थापित O Candidates should open the top side of the seal of thi out the OMR Answer Sheet placed at page no. 2 and	is Booklet and take Booklet No.
STA परीक्षा प्रश्न-पुस्तिका/EXAMINATION	प्रिक्षा पुस्तिका शृंखलाः QUESTION BOOKLET Test Booklet Series : A
निर्धारित समय : 3 घंटे ( दूष्टिबाधित उम्मीदवारों के लिए : 4 घंटे ) Time Allowed : 3 Hours (For V.H. Candidates : 4 Hours)	अधिकतम अंक : 120
रोल नं. 🛛 🔰 👘	Maximum Marks : 120 उत्तर शीट सं.:
Roll No.	Answer Sheet No. :
Read the following instructions carefully before you begin to an	नुदेशों को ध्यान से पढ़ लें, इस पुस्तिका में प्रश्न अंग्रेजी में दिए गए हैं। nswer the questions.  This booklet contains questions in English.
उम्मीदवारों के लिए अनुदेश 1. प्रश्नों के उत्तर लिखना आरंभ करने से पहले आप इस पुस्तिका की जाँच करके	Instructions to the Candidates
<ul> <li>सुनिश्चित कर से कि इसमें पूरे पृष्ठ (1-16) हैं तथा कोई पृष्ठ या उसका भाग कम या दुबारा तो नर्सी जा गया है। उम्मीदवारों को यह भी जीच करनी है कि उनको केवल उस स्ट्रीम को सही परीक्षा-पुस्तिका मिली है जिसके लिए उन्होंने आवेदन किया है। यदि आप इस पुस्तिका में कोई ट्रीट पाएं, तो <i>तत्कात्ल</i> इसके बदले दूसरी पुस्तिका ले लें।</li> <li>औ.एम्.आर उत्तर पुस्तिका, प्रश्न पुस्तिका में कोई ट्रीट पाएं, तो <i>तत्कात्ल</i> इसके बदले दूसरी पुस्तिका ले लें।</li> <li>औ.एम्.आर उत्तर पुस्तिका, प्रश्न पुस्तिको में छो उपलब्ध रहेगी। ओ एम आर उत्तर-श्रीट पर मुद्रित अनुदेशों के अनुसार मार्था कर प्रमा विद्या गया है। अपनिया आपको ओ एम् आर उत्तर-श्रीट पर मुद्रित में विवरण अरते से पहले, आपको ओ एम् आर उत्तर-श्रीट त्रात्त में विर अनुदेशों के अनुसार सावधानी पूर्वक उसमें विवरण और कोड लिखने अनुदेशों को साबधानी पूर्वक एतन नहीं किया जायेगा। (इटिटिति उम्मीदवा भाकी) थाए आर उत्तर-पुस्तिका में निर्धारित स्थान पर आप करते से पहले आपको ओ एम् आर उत्तर-श्रीट का मूल्यांकन नहीं किया जायोगा। (इटिटिति उम्मीदवार) के लिए यह विवरण लेखक द्वारा भरे जायेंगे। फिर भी, सभी दृष्टिती उम्मीदवार अपना करताकर के लिए यह विवरण लेखक द्वारा भरे जायेंगे। फिर भी, सभी दृष्टिती उम्मीदवारा के लिए यह विवरण पलेखक द्वारा भरे जायेंगे। फिर भी, सभी दृष्टिती उम्मीदवारा अपना हस्ताक्षर कर सकते हैं, वे अंगूठे के निशान के अलावा अपने हस्ताक्षर भी करें।)</li> <li>औ.एम्.आर उत्तर-श्रीट में निर्धातिय के अतिरित्त जो दृष्टिहीन उम्मीदवारा अपना स्रत्ताक्षर करा सकते हैं ते अंगूठे के निशान के अलावा आपने हस्ताक्षर भी करें।)</li> <li>औ.एम्.आर उत्तर-श्रीट में निर्धातियों में होंगे (मूल तथा फक कार्वन प्रतिलिपि निर्धात करा सकते हैं वे अंगूठे के निशान के अलावा आपने को प्रतिलिपि निर्धा कको/अत्तर को प्रतिक्रियों है। यदि को प्रतिलिपि नि जा सकते/सकते हैं। यदि को प्रते को वितरी से हो। यदि को प्रतिलिपि निर्ध के स्राप के अपने अत्ता दा करता है हर मामले/ सकते हैं। यदि को प्रतिलिपि ने वार्ध के त्राये क प्रया त्र अपना/असनी हर हरा है तो उत्तर करते कि प्रत के प्रत के दर सकी दर को जातेना प्रत कर ति हिप्र में प्रतके प्रयत्त के प्रत के वात्व करी प्रतिलिपि ने जा सकते/ सकते हैं। प्रतके द्रयते व्रयते राप कर्त हैं ते उत्तर है। परिलक म</li></ul>	<ol> <li>Before you start to answer the questions you must check up this booklet and ensure that it contains all the page (1-16) and see that no page or portion thereof is missing or repeated. Candidates are also required to check that they have got the right question book as per the post applied. If you find any defect in this Booklet, you must get it replaced <i>immediately</i>.</li> <li>OMR Answer-Sheet will be within the Question booklet. Read the instructions printed on OMR Answer sheet carefully before filling the information on the OMR Answer sheet carefully before filling the information on the OMR Answer sheet carefully before filling the information on the OMR Answer sheet. You must complete and code the details as per the instructions given in the OMR answer sheet carefully. You must also put your signature on the OMR Answer-Sheet at the prescribed place before you actually start answering the questions. These instructions must be fully compiled with, failing which, your Answer-Sheet will not be evaluated. (For V.H. candidates these details will be filled in by the scribe. However, all V.H. candidates must put their left-hand thumb impression at the space provided in the OMR Answer-Sheet. In addition, those V.H. candidates who can sign should also put their signatures in addition to thumb impression.)</li> <li>The OMR answer sheet will be in triplicate (Original and two carbon copies). Candidate has to take one carbon copy to invigilator. If candidate fails to handover the original OMR along with one carbon copy to invigilator. If candidate OMR carbon copy and claims for same in that case also his/her candidature will be cancelled.</li> <li>This booklet consists of 120 Multiple Choice Questions. (Section A and Section B both contains 60 Questions each). Each question has 4 (four) alternatives (A), (B), (C) and (D). In any case only one alternative will be the correct answer. In case if you find more than one correct answer, then choose the most appropriate single option and darken the rela</li></ol>
11. परीक्षार्थी को अपनी उत्तर-पुस्तिका शीट निरीक्षक को सौंपे बिना और उपस्थिति पत्रिका पर हस्ताक्षर किये बिना परीक्षा हॉल/कमरा नहीं छोड़ना चाहिए, ऐसा नहीं	<ol> <li>Candidate should not leave the examination hall/room without handing over his/her Answer sheet to the invigilator</li> </ol>
करने पर अयोग्य घोषित कर दिया जाएगा। जब तक आप से कहा न जाए त	and without signing on the attendance sheet. Failing in doing so, will amount to disqualification.

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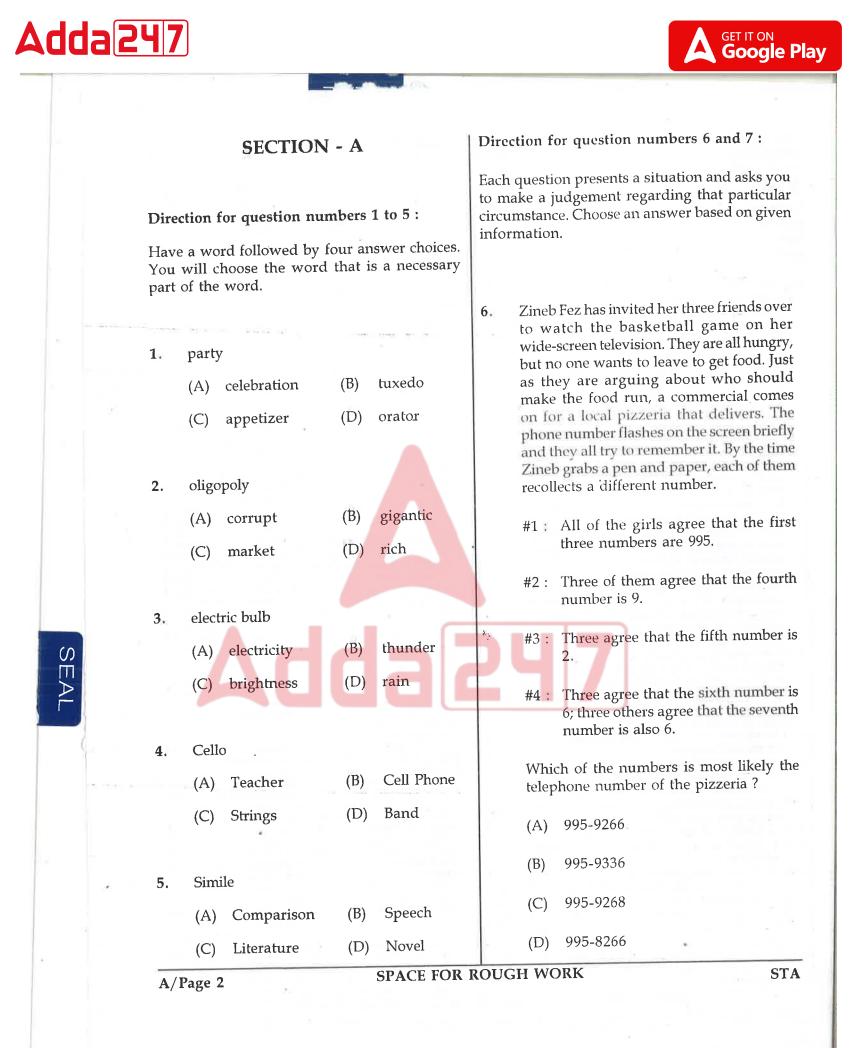








### **ATTEMPT FREE MOCK NOW**



7. A Hollywood film director wants a woman for the lead role of Leez who perfectly fits the description that appears in the original screenplay. However he is not willing to consider women who do not resemble the character as she is described in the screenplay, no matter how talented they are. The screenplay describes Leez 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 midtwenties. 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

#### Direction for question numbers 8 and 9 :

There is a certain relation between two given words on one side of : : and one word is given on another of : : while another word is to be found from the given alternatives, having the same relation with this word as the given pair has.

Select the best alternative.

- 8. Skirmish : War : Disease : ?
  - (A) Medicine
  - (B) Patient
  - (C) Epidemic
  - (D) Infection

A/Page 3



- 9. Jade : Green : : Garnet : ?
  - (A) Blue
  - (B) Orange
  - (C) Red
  - (D) Yellow
- **10.** Who is the first Indian woman to win an Asian Games gold in 400 m run ?
  - (A) M.L. Valsamma
  - (B) P.T. Usha
  - (C) Kamaljit Sandhu
  - (D) K. Malleshwari
- **11.** What is the name of World's Smallest spacecraft launched by the Indian Rocket ?
  - (A) Aryabhatta (B) Bhaskara II
  - (C) Sprites (D) INSAT 1 A
- 12. The head quarters of Sahitya Akademi is at :(A) Mumbai (B) Chennai
  - (C) New Delhi (D) Kolkata
- **13.** The first death anniversary day of Sri Rajiv Gandhi was observed as the :
  - (A) National Integration Day
  - (B) Peace and Love Day
  - (C) Secularism Day
  - (D) Anti-Terrorism Day

SPACE FOR ROUGH WORK

## **Adda**247



14.		hich Indian state nate ?	did th	e game of Polo	19.	The	'Dronacharya A	ward' i	s given to :
			<b>(B</b> )	Rajasthan		(A)	Sportsmen		
	(A)	Meghalaya	(B)	,	2	(B)	Coaches		
	(C)	Manipur	(D)	West Bengal		(C)	Umpires		
15.		ch festival was ronment Ministe				(D)	Sports Editors		
	(A)	National Memo	orial So	cheme	20.	Indi	an School of Min	es is lo	ocated in :
	(B)	Performing Art	s Grai	nt Scheme		(A)	Dhanbad	(B)	Asansol
	(C)	Van Mahotsav	Festiv	al		(C)	Tatanagar	(D)	Rourkela
	(D)	Scheme for Pro Related Scheme			21.		ich institute la luce Colourful A		
16.		ch of the follow nen from wearing				(A)	National Institu		
	(A)	Afghanistan	(B)	Kyrgyzstan		(B)	Indian Space R	esearch	n Organisation
	(C)	Uzbekistan	(D)	Tajikistan		(C)	National Aero Administration		-
17.		o approved 20 la r under PM Awa Shri Venkaiah	s Yojn	a recently ?	22.		Manipal Unive international t dicherry in India	ownsh	-
	(B)	Shri Arun Jaitle	ey				ESCO is called :		aboration with
	(C)	Shri Naveen Pa	atnaik			(A)	Elbaville	(B)	Auroville
	(D)	Shri Suresh Me	enon			(C)	Gayaville	(D)	Broadway
18.		9 <sup>th</sup> edition of BRI 	CS sur	nmit-2017 held	23.		vhich of the follo an rupee devalue		
	(A)	Tianjin	(B)	Chongqing		(A)	1949	(B)	1955
	(C)	Xiamen	(D)	Beijing		(C)	1966	(D)	1974



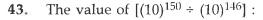


		а. С									
24.	'Gra majo		SUV f	rom which car	29.		ch of the fol in India ?	lowing	is a r	narket researc	
	(A)	General Moto	ors			(A)	SOTC		(B)	ORG.MAR	
	(B)	Hyundai Mol	tors		- S	(C)	AT&T		(D)	CRY	
	(C)	Maruti Udyo	g Ltd.								
	(D)	Mahindra an	d Mahi	ndra	30.	Bad rive:		ituatec	l on	the bank o	
25.		year 1991 was year of :	observ	ved in India as		(A) (C)	Ganga Alaknand		(B) (D)	Yamuna Saraswathi	
	(A)	Population co	ontrol						. ,		
	(B)	Girl child			31.	In h	ow many dif	fferent v	vays	can the letter	
	(C)	Literacy				of the word 'Ma arranged so that the		'MAT	ATHEMATICS' be		
	(D)	Tourism					ther ?	t uic vo	WV CI	s always com	
						(A)	10080				
26.	The	ratio of width o	of our N	National flag to		(B)	4989600				
		ngth is :				<u>(</u> C)	120960				
	(A)	3:5	(B)	2:3		(D)	None of th	ne optio	ns		
	(C)	2:4	(D)	3:4							
27.		marketing guru de was associa		Sen of the past h :	32.	had		18 more	e, th	of 12%. If Irvi en 18% would cost price.	
		Nestle				(A)	₹ 600		(B)	₹ 300	
	(B)	Britannia Inde	ustries			(C)	₹ 400	(	D)	₹ 200	
	(C)	Hindustan Ur		imited	1 						
	(D)	Marico Indust			<b>33.</b> .	cost to pa	him ₹ 6,000 int the 4 wa	and ₹ lls of hi	6,10 s 2 s	use painted. I 0 respectively quare halls, o	
28.	signe	a and this co ed pacts for tec ield of Railway	hnical	nave recently cooperation in		excee the c	eds the leng	th of the ing is ₹	e oth 5 pe	th of one hal her by 1 m and er sq. m, wha s ?	
	(A)	Bhutan	(B)	Nepal		(A)	3 m	(	B)	5 m	
	(C)	Malaysia	(D)	Switzerland		(C)	7.5 m	(	D)	10 m	





	Page 6 SPACE FOR R	OUC	H WORK STA
	(C) 6.26 p.m (D) 5.34 p.m	×	(C) 3 mph (D) 4 mph
			(A) 2 mph (B) 2.5 mph
	If I have set the watch correctly at 10 a.m. on Tuesday, what will be the time shown by the watch at 6 p.m. on Saturday ? (A) 6.16 p.m (B) 6.30 p.m	42.	A boat takes 90 minutes less to travel 36 miles downstream than to travel the same distance upstream. If the speed of the boat in still water is 10 mph, the speed of the stream is :
37.	My father gifted me a digital watch that runs fast at the rate of 15 seconds per hour.		(C) $4j + i$ (D) $i + 4j$
			(A) $3i + 4j$ (B) $4i + j$
	(C) 2 <sup>1000</sup> (D) 2 <sup>10000</sup>		3i + 4j and that of water relative to earth is $i - 3j$ , the velocity of the boat relative to the earth is :
	(A) $2^{10}$ (B) $2^{100}$	41.	The velocity of a boat relative to water is
36.	If $\log_x y = 100$ and $\log_2 x = 10$ , then the value of <i>y</i> is :		(C) 21 (D) 19.5
•			(A) 24 (B) 22
	(C) $\frac{12}{55}$ (D) $\frac{104}{165}$		her home on the same road towards Aishwarya's college. If Aishwarya's speed was 4 km per hour and Ananya's was 3 km per hour, how many km from Ananya's home did the two meet?
	(A) $\frac{12}{60}$ (B) $\frac{13}{25}$	40.	An hour after Aishwarya started from her college towards Ananya's home, a distance of 53 km, Ananya started from
	probability that the selection contains a batsman, a bowler and an all-rounder.		(C) 30 (D) 33.33
	3 bowlers and 1 wicket keeper. 3 players are selected randomly. Find the		(A) 20 (B) 25
35.	A college cricket team with 11 players consists of 4 batsmen, 3 all-rounders,	39.	After the price of apples reduced, it enabled a person to purchase 3 apples for ₹ 1 instead of ₹ 1.25. What is the percentage reduction in price ?
	(C) 25 days (D) 30 days		(D) only when $a = 0$ and $b = 0$
	(A) 20 days (B) 22.5 days		(C) only when $a^2: b^2=1:2$
	Birju, work together, they can do it in :		(B) only when $a = b$
	60 days less than Birju. If both Ali and		(A) for all values of a and b
	and therefore is able to finish a job in		x + ay = 5 have a unique solution :



**Adda**|24|7

(A)	1000	(B)	10000
(C)	100000	(D	) 106

**44.** If a fair coin is tossed 5 times and comes up heads four times out of five. Then if the coin is tossed a sixth time under the same conditions, the probability of it turning up heads is :

(A)	80%	(B)	125%
(C)	50%	(D)	20%

**45.** Anand invested ₹ 8,000 as a fixed deposit scheme for 2 years at compound interest rate 5% p.a. How much amount will Anand get on maturity of the fixed deposit ?

- (A) ₹ 8,600
- (B) ₹ 8,620
- (C) I ₹ 8,820
- (D) None of the options

In each of the following questions (**46 - 50**) find the word pair that is related to the same way as the word pair provided.

#### 46. Soup : Liquid

- (A) water : thirst
- (B) book : knowledge
- (C) oxygen : gas
- (D) writer : publisher

**47.** TRAINING : HÉREDITY

- (A) unnatural : usual
- (B) ornithologist : birds
- (C) habits : instincts
- (D) astute : ingenious

A/Page 7

#### **48.** TRIANGLE : HEXAGON

- (A) cone : sphere
- (B) rectangle : octagon
- (C) pentagon : heptagon
- (D) angle : quadrilateral

#### **49.** ABRIDGE : LENGTHEN

- (A) root : trunk
- (B) stop : end
- (C) lend : borrow
- (D) prize : reserve

#### **50.** FRAGRANT : INCENSE

- (A) frequent : sound
- (B) sneeze : nostrils
- (C) noxious : garbage
- (D) noisome : pleasant

**Direction for question numbers 51 to 55 :** There are five short passages given below. Read each of the passages and answer the question that follows it.

51. It was 1950s when the new genre of rock and roll music started as a young man's medium. Rock music is still best performed by young men of 20s and 30s. As rock performers step into their 40s, or even 50s, they are less physically capable of producing the kind of exhilarating music they did when they were younger.

All the following assumptions underlie the argument above EXCEPT

- (A) as rock performers mature, their performances tend to become less exciting.
- (B) rock music is dominated by male performers.
- (C) women performers have always played a significant role in rock music.
- (D) the physical demands of performing rock are better met by the young.

SPACE FOR ROUGH WORK







52. Las Vegas is certainly one of the honeymooner's heaven among the moderately rich Americans. Why should it not be? Las Vegas has much more to offer than shops and slot machines. However, unfortunately, tourists seldom stray off the beaten track. 2001 Guide is a book that encourages the visitors to do so and discover the living museum that is the Las Vegas city.

Which of the following information about 2001 Guide will weaken the intended impact of the book ?

- (A) The greatest attraction of Las Vegas that sets it apart from other places is its casino.
- (B) 2001 Guide does not give a detailed account of the geography of the lesser known facts of Las Vegas.
- (C) An increasing number of young couples are taking to adventures and undiscovered land.
- (D) Las Vegas has many more visitors than first honeymooners.
- **53.** The famous theory of relativity was given by Albert Einstein. It stated that time travel is theoretically possible. Let us assume that time travel were to be made possible through some technological breakthrough. Would it not be advantageous to send someone back in time to prevent the assassination of Archduke Franz Ferdinand in 1914 and thus keep World War I from ever occurring ?

Which of the following assumptions can be deduced from above argument ?

- (A) It is not possible to alter a significant current in world history merely by changing a single event.
- (B) The technology necessary for time travel is likely to be developed in the near future.
- (C) If Franz Ferdinand had not been assassinated, some other catalytic event would have led to the start of World War I.
- (D) The assassination of Franz Ferdinand was the crucial event that triggered the start of World War I.

A/Page 8

54. The movie Jurassic Park was a super-hit in the 90s. The movie shows scientists creating live dinosaurs by replicating dinosaur DNA found inside an insect that had bitten a dinosaur centuries back and was then trapped in amber. Though such a feat has not been accomplished in the real world, yet one day modern science will possibly succeed in recreating prehistoric creatures in a similar manner.

> All of the following assumptions underlie the conclusion of the passage above EXCEPT

- (A) the genetic information in DNA is sufficient to permit the recreation of an entire animal.
- (B) it will someday be possible to accurately replicate DNA in a laboratory.
- (C) enough DNA can be extracted from an insect to recreate an entire animal.
- (D) scientists will never fully understand how DNA functions.

SPACE FOR ROUGH WORK





55.	· · · · · · · · · · · · · · · · · · ·	ion of an Apartment Bease any r	57.	C, F, J, O, ?	, В		
	by the has s	igned with a landlord. Which ion below is the best example of		(A) S	()	3) T	
	violat	ing an Apartment Lease		(C) U	(	D) V	
		Tina has decided to move to another town, so she calls her landlord to inform that she is not interested in renewing her lease when it expires next month.					
		the last has advertising	58.	DF, GJ, KM,	NQ, RT, ?		
	(B)	Varnika recently lost her advertising job and, for the last three months, has neglected to pay her landlord the monthly rent they agreed upon in writing when she moved into her		(A) UW		(B) YZ	
		apartment eight months ago.		(C) XZ		(D) UX	
	(C)	Mayank writes a letter to his landlord that lists numerous complaints about the apartment he has agreed to rent for one and a half	+				
		years.	59.	ABP, CDQ	, EFR, (?.	)	
	(D)	Leena thinks that her landlord is neglecting the building in which she rents an apartment. She calls her attorney to ask for advice.		(A) GHS	7	(B) GHT	
2			Ŧ	(C) HGS		(D) GHR	
D	) irectio	ns for question numbers 56 to 60 :					
Ir	n each c	of the following questions, various term	6		ie –		
a o	s show of the gi	n by (?). Choose the missing term of iven alternatives.	6	0. C, G, L, R	,?		
ation -		- O 1 2		(A) Y	×	(B) S	
5		r, O, m, J, ?		× /			
		() II () ()		(C) U		(D) Z	
	. (0	SPACE FOI		HORI MODI			STA





	SECTION - B	66.	<ul><li>Which of the following statement is true ?</li><li>(A) Melay and Moore machine are language acceptors.</li></ul>
61.	Correct expression for UDP user datagram length is :		<ul> <li>(B) Finite State automata is language translator.</li> </ul>
	(A) length of UDP = length of IP – length of IP header's		(C) NPDA is more powerful than DPDA.
	(B) length of UDP = length of UDP - length of UDP header's		(D) Melay machine is more powerful than Moore machine.
	(C) length of UDP = length of IP + length of IP header's	67.	If file size is large and if it is to be accessed
	(D) length of UDP = length of UDP + length of UDP header's	07.	randomly then which of the following allocation strategy should be best to use in a system ?
62.	In binary search tree which traversal is used for getting ascending order values ?		<ul><li>(A) Linked allocation</li><li>(B) Indexed allocation</li></ul>
	(A) Inorder		(C) Contiguous allocation
	(B) Preorder		(D) None of the options
	(C) Postorder		
	(D) None of the options	68.	Microprocessors are used in which
	(b) None of the optimit		generation of computers ?
63.	The automaton which allows		(A) I <sup>st</sup> Generation
00.	transformation to a new state without		(B) II <sup>nd</sup> Generation
	consuming any input symbols :		
	(A) NFA (B) DFA	2	(C) III <sup>rd</sup> Generation
	(C) NFA-1 (D) All of the options		(D) IV <sup>th</sup> Generation
64.	Complement of a DFA can be obtained	<u>6</u> 9.	Operating System maintains the page tabl
	by :		for :
	(A) making starting state as final state.		(A) each process
	(B) make final as a starting state.		(B) each thread
	(C) making final states non-final and		(C) each instruction
	non-final as final.		(D) each address
	(D) None of the options		·· <sup>2</sup> 1
65.	Concatenation Operation refers to which of the following set operations :	70.	The function $f(x) = \frac{x^2 - 1}{x - 1}$ at $x = 1$ is :
			(A) Continuous and differentiable
	<ul><li>(A) Union</li><li>(B) Dot</li></ul>		(B) Continuous but not differentiable
			(C) Differentiable but not continuous
	<ul><li>(C) Kleene</li><li>(D) None of the options</li></ul>		(D) Neither continuous no differentiable
	(-)		H WORK STA

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71.	,	1-Loop control me Remove congestio			repre	sented by a lement form	n 8-bit in is :	umber in 2's
	· ·	Remove congestio				- 256	(B)	- 128
	· ·	Prevent congestio			(C)	- 127	(D)	0
			on before sending		( )			
		packets		77.	Non- prog	ram into blo	ocks of m	location splits emory called aded in non-
72.	In cla	ssless addressing, ddresses are still g	there are no classes		adjac	ent holes in	main men	nory.
			Blocks		(A)	Pages	(B)	Frames
	(A)		Sizes		(C)	Partition	(D)	Segments
	(C)	IPs (D)	01200					
73.	Whie	ch multiple access	technique is used	78.	In a then	full binary tro the height of	ee number f the tree i	of nodes is 63 s :
	by I LAN		dard for wireless		(A)	2	(B)	4
	(A)	CDMA			(C)	3	(D)	6
	(B)	CSMA/CA						
	(D) (C)				Let ]	P, Q, R be a r	egular exp	ression over X 11 string, the
	(C) (D)	None of the opti	ons		If P R =	O + RP has	s a uni	que solutio
	(D)	I I I I I I I I I I I I I I I I I I I				······		
74.	PGI	Pencrypts data by	using a block cipher		(A)	Q*P	(B)	QP*
/1.	calle	ed :			(C)	Q*P*	(D)	(P*O*)*
	(A)	international	data encryption	۱ <b>–</b>				
	(B)	algorithm private data en	cryption algorithm	80	. Tot be a	a <mark>l numbe</mark> r o drawn using	f simple g six vertice	graphs that ca as are :
	(C)	-	ncryption algorithm		(A)	15	(B)	2 <sup>14</sup>
	(D)	6 . 1 · · ·			(C)	2 <sup>13</sup>	(D)	) 2 <sup>12</sup>
75	. If	L1 and L2 are ersection of these	regular sets the two will be :	n 81	. Th	e 2–3–4 tree ucture, which	e is a self- h is also ca	balancing da alled :
	(A)	) Regular		2	(A)	) 2-4 tree		
	(B)				(B)	B+ tree		
	(C				(C			
	<b>```</b>	) Non Recursive			(D	) None of t	the options	5





82.	the "	h type of algori 8 Queens″ prob Greedy	thm is lem ?	used to solve	88.	has 5 Whie	subnets, ea ch one is u	ch wit	h at le	etwork that ast 16 hosts. sful subnet
	(A) (B)	Dynamic				mask (A)	255.255.25	5.192		
	(C)	Divide and cor	nquer				255.255.25			
	(D)	Backtracking				(B)	255.255.25			
	( )					(C)	255.255.25			
83.		5 inch micro flop ains the data				(D)				
	(A)	720 MB	(B)	1.44 MB	89.	Wha	t is Compac			а 8
	(C)	720 KB	(D)	1.44 KB		(A)	a techniqu fragmenta		vercor	ning internal
84.	Δε	ubnet mask ir	ı class	C can have		(B)	a paging t	echniq	ue	· · ·
04.		1's with	the rem	aining bits 0's. 24		(C)	a techniqu fragmenta	e for o ition	vercor	ning external
	(A) (C)	10 12	(D) (D)	7		(D)	a techniq error	ue for	over	coming fata
85.		at is the value	of ackr	nowledgement						
	field	d in a segment ?			90.		w can we se		okie v:	isibility scope
	field (A)	d in a segment ? Number of pr	evious	bytes to receive	90.	to le	ocal storage	?		isibility scope
28. 1 -		l in a segment ? Number of pr Total number	evious c of byte	bytes to receive es to receive	90.		ocal storage		%	
	(A) (B) (C)	d in a segment? Number of pr Total number Number of no	evious c of byte ext byte	bytes to receive es to receive es to receive	90.	to le	ocal storage	?	%	of the options
86.	(A) (B) (C) (D)	d in a segment ? Number of pr Total number Number of no Sequence of 2 e number (25) <sub>6</sub> in	evious l c of byte ext byte zero's a c base 6	bytes to receive es to receive es to receive nd one's is equivalent to	90.	to le (A) (C)	ocal storage \$ /	? (B) (D)	% All o	of the options
	(A) (B) (C) (D) The	d in a segment? Number of pr Total number Number of no Sequence of 2 e number (25) <sub>6</sub> in in binary n	evious l c of byte ext byte zero's a l base 6 umber	bytes to receive es to receive es to receive nd one's is equivalent to system.	90.	to le (A) (C)	inite automa guage :	? (B) (D)	% All o	of the options
	(A) (B) (C) (D)	d in a segment ? Number of pr Total number Number of no Sequence of 2 e number (25) <sub>6</sub> in in binary n 11001	evious l c of byte ext byte zero's a c base 6	bytes to receive es to receive nd one's is equivalent to system. 10001	90.	to lo (A) (C) A f lan	inite automa guage : Type 0	? (B) (D)	% All o ccepts	of the options which type o
	(A) (B) (C) (D) The (A) (C)	d in a segment ? Number of pr Total number Number of no Sequence of 2 e number (25) <sub>6</sub> in in binary n 11001	evious l c of byte ext byte zero's a a base 6 umber (B) (D)	bytes to receive es to receive nd one's is equivalent to system. 10001 10000	90.	to lo (A) (C) A f lan (A) (C) WH sta	inite automa guage : Type 0 Type 2 nich NetWa te routing ?	? (B) (D)	% All o ccepts (B) (D) tocol j	of the options which type o Type 1 Type 3 provides lind
86.	(A) (B) (C) (D) The (A) (C)	d in a segment ? Number of pr Total number Number of no Sequence of 2 e number (25) <sub>6</sub> in in binary n 11001 11000 nich of the folloo dress ?	evious l c of byte ext byte zero's a a base 6 umber (B) (D)	bytes to receive es to receive nd one's is equivalent to system. 10001 10000 5 a class B host	90.	to 14 (A) (C) A f lan (A) (C) Wł	inite automa guage : Type 0 Type 2 nich NetWa te routing ?	? (B) (D)	% All o ccepts (B) (D)	of the options which type c Type 1

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93.	Whic layer	h layer connects the network support s and user support layers ?	97.	How many times the word "PROCESS" will be printed when executing the following program ?
	(A)	transport layer		main(){
	(B)	network layer		<pre>printf("PROCESS"); fflush();</pre>
	(C)	data link layer		fork();
	(D)	session layer		fork(); }
				(A) 8 (B) 4
94.	Proc	ess is in a ready state		(C) 6 (D) 7
	(A)	when process is scheduled to run after some execution	98.	If a planner graph, having 25 vertices divides the plane into 17 different regions.
	(B)	when process is unable to run until some task has been completed		Then how many edges are used to connectthe vertices in this graph.(A) 20(B) 30
	(C)	when process is using the CPU		(C) 40 . (D) 50
	(D)	none of the options	<b>99</b> .	Merge sort uses : (A) Divide-and-conquer
95.	(0+	$\varepsilon$ ) $(1 + \varepsilon)$ represents :		<ul><li>(B) Backtracking</li><li>(C) Heuristic approach</li></ul>
	(A)	{0, 1, 01, ε}		(D) Greedy approach
	(B)	{0, 1, ε}	100	. What is the relation between DFA and
	(C)	{0, 1, 01, 11, 00, 10, ε}		NFA on the basis of computational power?
	(D)	{0, 1}		(A) DFA > NFA
				(B) NFA > DFA
				(C) Equal
96.	The line fact	average search time of hashing, with ear probing will be less if the load or :		<ul><li>(D) Can't be said</li><li>. If a random coin is tossed 11 times, then</li></ul>
	(A)	is far less than 1		what is the probability that for 7 <sup>th</sup> toss head appears exactly 4 times ?
	(B)	equals 1		(A) 5/32
	(C)	is far greater than 1		<ul> <li>(B) 15/128</li> <li>(C) 35/128</li> </ul>
	(D)	none of the options		(D) None of the options



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102.		h of the following is ille language ?	egal declaration	106.		Ethernet destination addre 1-12-03-04-05 is :
	(A)	char*str="Raj is	a Research		(A) <sup>=</sup>	Unicast address
	(13)	Scholar";	u neocuren		(B)	Multicast address
	(B)	charstr[25] = "Raj i	s a Research		(C)	Broadcast address
	(2)	Scholar";			(D)	All of the options
	(C)	charstr[40] = "Raj i Scholar";	s a Research	107.		open file table has a/an
	(D)	char[] str = "Raj is	s a Research			ciated with each file.
		Scholar";			(A)	file content
				Ι.	(B)	file permission
103.		n we use slow-start of the congestion wir until it reache	ndow increases		(C) (D)	open count close count
	(A)	Additively		108.		process of loading the operati em into memory is called :
	(B)	Multiplicatively			(A)	Booting (B) Spooling
	(C)	Exponentially			(C)	Thrashing (D) Formatting
	(D)	None of the options		109.	Why	v is one-time password safe ?
		-			(A)	It is easy to generate
104.		Y and Z are three e aally exclusive events r		18	(B)	It cannot be shared
		eriment and the $P(X)$			(C)	It is different for every access
	P(Z)	= 0.3P(Y). Then $P(Y)$	-		(D)	It can be easily decrypted
	(A)	0.54 (B)	0.66		_	
	(C)	0.33 (D)	0.44	110.		v many DFA's exits with two sta input alphabet {0, 1} ?
					(A)	16 (B) 26
105.		v4 Addresses, classfu aced with :	ll addressing is		(C)	32 (D) 64
	(A)	Classless Addressing		111.	The (A)	demerits of the fragmentation ar Complex routers
	(B)	Classfull Addressing			(B)	Open to DOS attack
	(C)	Subnet Advertising			(C)	No overlapping of fragments
	(D)	None of the options		1	(D)	(A) and (B) both
A/Pa	nge 14	1	SPACE FOR R	OUGI	I WO	DRK ST
						*





