





ONLINE APPLICATION FOR MANAGEMENT TRAINEES 2016-17

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Test Center	Ram Tahal Choudhary Institute of Technology
Name:	RTCIT
Test Date:	26/03/2017
Test Time:	12:30 PM - 3:30 PM

Section : General Knowledge/Awareness

Q.1 Who among the following won the Dronacharya Award in Gymnastics for the year 2016?

Ans 1. Bishweshwar Nandi X 2. Lalita Babar

X 3. Deepa Karmakar

X 4 Rajendra Pralhad Shelke

Q.2 What type of Energy does "a batsman hitting a ball" use?

Ans X 1. Gravitational Energy

X 2. Frictional Energy

3. Kinetic Energy

X 4. Potential Energy

Q.3 Which of the following is NOT an example of Biomass Material?

Ans X 1. Wood

X 2. Animal Waste

X 3. Garbage

√ 4. Coal

Q.4 Who has been awarded the 2016 IAAF World Athlete of the Year Award in male category for sixth time?

Ans X 1. Michael Phelps

X 2. Patrik Sjöberg

3. Usain Bolt

X 4. Andre De Grasse

Q.5 Mr. Reddy is running for the Vice-President's post. Which of the following qualities of Mr. Reddy make him an ineligible candidate to contest election for the

post of Vice-President of India?

Ans X 1.

Mr. Reddy is qualified for election as a member of the Council of States.

X 2

Mr. Reddy has completed the age of thirty-five years.

3

Mr. Reddy is the District Commissioner of Guntur, which is an office of profit under the Government of Andhra Pradesh.

4. Mr. Reddy is a citizen of India.

Q.6 Who became the first woman to win the Jnanpith Award in 1976 for her 1965-novel Pratham Pratisruti (The First Promise)?

Question ID : 2391303332 Status : Answered

Chosen Option: 3

Question ID : 2391303328

Status : Answered

Chosen Option: 4

Question ID : 2391303330

Status : Answered

Chosen Option : 1

Question ID: 2391303333

Status : Answered

Chosen Option: 3

Question ID : 2391303318

Status : Answered

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Question ID: 2391303335 Ans X 1. Amrita Pritam Status: Answered 2. Mahasweta Devi Chosen Option: 2 X 3. Lily Ray 4. Ashapoorna Devi Q.7 Who is the Chief Executive Officer (CEO) of the Wipro Group? Question ID: 2391303327 Ans X 1. Rishad Premji Status: Answered Chosen Option: 2 X 2. Azim H. Premji X 3. Vishal Sikka 4. Abidali Z. Neemuchwala Q.8 A physical balance is an example of: Question ID: 2391303329 Status: Answered Ans X 1. Composite machine Chosen Option: 3 X 2. Inclined plane √ 3. Lever X 4. Wedge Q.9 has the largest coal reserves in India. Question ID: 2391303323 Ans Status: Answered X 1. Odisha Chosen Option: 3 X 2. West Bengal √ 3. Jharkhand X 4. Chhattisgarh Q.10 Which of the following does the 7th Schedule of the Constitution of India comprise? Question ID: 2391303317 Status: Answered ii. Union List iii. Concurrent List Chosen Option: 2 Ans 🗸 1. All (i), (ii) and (iii) X 2. Both (i) and (ii) X 3. Only (i) X 4. Both (ii) and (iii) Q.11 Who is the current Speaker of Lok Sabha? Question ID: 2391303341 Status: Answered Ans X 1. Meira Kumar Chosen Option: 3 X 2. S. M. Krishna 3. Sumitra Mahajan Mohammad Hamid Ansari

Ansari

Mohammad Hamid Ansari

Mohammad H Q.12 Whom did Chandragupta Maurya overthrow to take over the reins of the Magadha Empire? Question ID: 2391303320 Ans X 1. Ajatshatru Status: Answered Chosen Option: 3 2. Dhana Nanda X 3. Bimbisara Mahapadma Nanda

Mahapadma Nanda

Manda

Manda Q.13 Which country is the world leader in the population of bovine animals? Question ID: 2391303325 🗸 1. India Ans Status: Answered Chosen Option: 3 X 2. USA





X 3. Denmark 🗙 4. Spain Q.14 Asia's first and longest cycle highway runs between: Question ID: 2391303337 Ans X 1. Mumbai and Pune in Maharashtra Status: Answered Chosen Option: 4 2. Etawah and Agra in Uttar Pradesh X 3. Hyderabad and Secunderabad in Telangana X 4. Bengaluru and Mysuru in Karnataka Q.15 Which of the following countries first invented the idea of "Gross National Happiness" to use happiness as a measure of Question ID: 2391303324 Ans X 1. Great Britain Status: Answered Chosen Option: 2 X 2. Taiwan X 3. Norway 4. Bhutan Q.16 Who wrote the medieval-era epic poem "Padmavat"? Question ID: 2391303322 Ans X 1. Mulla Daud Status: Answered Chosen Option: 3 Abu'l-Fazl ibn Mubarak 🗸 3. Malik Muhammad "Jayasi" X 4. Amir Khusro Q.17 What does IDBI in IDBI Bank stand for? Question ID: 2391303326 Ans X 1. Investment Development Board of India Status: Answered Chosen Option: 4 2. Industrial Development Bank of India Infrastructure and Development Board of India 4. Industrial Divestment Board of India Q.18 Which film won the 70th British Academy of Film and Television Arts (BAFTA) Award in the Best Special Visual Effects category? Question ID: 2391303336 Ans X 1. Manchester by the Sea Status: Answered Chosen Option: 3 X 2. Lion ✓ 3. The Jungle Book X 4. La La Land Q.19 Which statement about the Gobi Desert is NOT correct? Question ID: 2391303334 Ans X 1. Gobi is a cold desert. Status: Answered Chosen Option: 3 Gobi desert is the most expansive arid region in Asia. Most of Gobi's rain is blocked by the Himalayas. 4. It never rains in the Gobi desert. Q.20 What does RAM in a computer stands for? Question ID: 2391303331 Status: Answered Ans 1. Random Access Memory Chosen Option: 1 X 2. Rapid Action Machine

X 3. Random Application Mapping





A Rapid Applied Memory Q.21 Whom among the following stepped down as the Chairman of International Cricket Council (ICC) on Question ID: 2391303338 Status: Answered Ans X 1. Zaheer Abbas Chosen Option: 3 X 2. David Richardson 3. Shashank Manohar X 4. N. Srinivasan Q.22 Which of the following Governor Generals of India earned the title, "Maker of the Modern India"? Question ID: 2391303321 Ans V 1. Lord Dalhousie Status: Answered X 2. Lord Bentick Chosen Option: 4 X 3. Lord Canning X 4. Lord Mountbatten Q.23 Who is the Chief Justice of India as of February 2017? Question ID: 2391303340 Ans X 1. Justice T. S. Thakur Status: Answered Chosen Option: 1 X 2. Justice C. S. Karnan X 3. Justice H. L. Dattu 4. Justice Jagdish Singh Khehar Q.24 Who won the Men's Final Australian OpenTennis Championship 2017? Question ID: 2391303339 Ans X 1. Stanislas Wawrinka Status : Answered Chosen Option: 2 X 2. Novak Djokovic 3. Roger Federer X 4. Rafael Nadal Q.25 All executive action of the Government of India is taken in the name of the Question ID: 2391303319 Ans X 1. Speaker of Lok Sabha Status: Answered Chosen Option: 2 2. President of India 3. Prime Minister of India Y 4. Vice President of India Section: Numerical Ability Q.1 Mr. Shiva invested equal amount of money in two private firms which gives 15% simple interest per annum for 3.5 year and 5 years respectively. If the difference in their interests is Rs. 270. The amount invested by Mr. Shiva is: Question ID: 2391303350 Ans X 1. Rs. 1500 Status: Not Attempted Chosen Option: --✓ 2. Rs. 1200 X 3. Rs. 1250 X 4. Rs. 1205 Q.2 Pipe A can fill the tank 2 times faster than pipe B. If pipe A and B together fill the tank in 24 minutes, then pipe B alone can fill the tank in: Question ID: 2391303356 Ans X 1. 75 minutes Status: Answered Chosen Option: 3 X 2. 70 minutes 3. 72 minutes X 4. 71 minutes

Q.3 Find x, given $5(\sqrt{5})^{x+5} = (\sqrt{5})^{2x+7}$:

Ans χ 1. $\chi = -1$

Question ID : 2391303358
Status : Answered
Chosen Option : 2





 $\sqrt{2} x = 0$

 \times 3. x = 1

X 4. x = -2

Q.4 A flight has to travel between 2 cities A and B, 3000 km apart. The flight was slowed down due to bad weather. Its average speed for the trip reduced by 200 km/hr and the time of flight increased by 30 min. The duration of the flight with original speed is:

Ans X 1. 2.6 hrs

X 2. 2.75 hrs

X 3. 2.25 hrs

✓ 4. 2.5 hrs

Q.5 A train 130 meters long travelling at 36 km/hr crosses the bridge in 30 sec. Then the length of the bridge is:

Ans X 1. 196 meters

✓ 2. 170 meters

X 3. 125 meters

X 4. 175 meters

Q.6 If two is added to the denominator of a rational number it becomes \(\frac{1}{3}\) and if 4 is added to the numerator it becomes \(\frac{1}{2}\). Then the sum of the numerator and the denominator of the rational number is:

Ans **X** 1. −38

2. 38

X 3. -18

X 4. 18

Q.7 Ms. Shivangi invests Rs. 4000 for six months at 20% per annum compounded quarterly. The total amount she gets after 6 months is:

Ans X 1. Rs. 4401

✓ 2. Rs. 4410

X 3. Rs. 4411

X 4. Rs. 4440

Q.8 For a positive integer n, $3^{6n} - 6^{3n}$ is divisible by:

Ans 🗸 1. 3

X 2. 513

X 3. 500

X 4. 6

Q.9 Due to economic surges the price of eggs suddenly reduced to 40%. This enabled a woman to buy 64 more eggs for \$ 50 Then the reduced price per dozen is:

Ans X 1. \$ 3.5

√ 2. \$ 3.75

X 3. \$ 3.25

X 4. \$ 4

Q.10 If x_1 and x_2 are the roots of the equation $x^2 + 2x - 15 = 0$ then the quadratic equation which has the roots $\frac{1}{x_1}$ and $\frac{1}{x_2}$ is

Ans \times 1. $-15x^2 - 2x - 1 = 0$

 $\sqrt{2.15x^2-2x-1}=0$

 \times 3. $15x^2 - 2x + 1 = 0$

 \times 4. $15x^2 + 2x - 1 = 0$

Q.11 The curved surface area of a hemisphere is $8\pi \,\mathrm{cm}^2$, then its radius is:

Ans X 1. 1 cm

Question ID : 2391303354
Status : Not Attempted

Chosen Option : --

Question ID : 2391303361

Status: Not Attempted

Chosen Option: --

Question ID: 2391303347

Status: Not Attempted

Chosen Option: --

Question ID : 2391303352

Status: Not Attempted

Chosen Option: --

Question ID : 2391303344

Status : Answered

Chosen Option: 3

Question ID: 2391303353

Status : Answered

 $\hbox{Chosen Option:} \textbf{3}$

Question ID : 2391303359

Status : Answered

Chosen Option: 2

Question ID : 2391303363 Status : Answered





× 2. 3 cm	
× 3. 2.5 cm	
✓ 4. 2 cm	
2.12 If three sides of the triangle are given as 32 cm, 34 cm and 34 cm, then the area of the triangle	is:
Ans × 1. 500 cm ²	Question ID : 2391303360
500 cm ²	Status : Answered
✓ 2. 480 cm ²	Chosen Option : 2
× 3. 450 cm ²	
× 4. 475 cm ²	
13 If the sum of 2 numbers is 175, their LCM is 300 and HCF is 25. Then the difference between 2 numbers	is:
ins X 1. 10	Question ID : 2391303343
√ 2. 25	Status : Answered Chosen Option : 2
X 3. 20	Chosen Option . 2
× 4. 15	
The total number of odd factors of $2^5 \times 3^3 \times 5^2$ is	S: Question ID : 2391303342
ns 🗸 1. 12	Status : Answered
X 2. 10	Chosen Option : 3
X 3. 6	
× 4. 15	
15 Mr. Vijay rows a boat with the stream in 8 km/hr and against the stream in 4 km/hr. In still water, his rate of rowing km/hr is:	Question ID : 2391303362
ns X 1. 1	Status : Answered
X 2. 3	Chosen Option:3
X 3. 4	
▼4. 2	1247
0.16 If y exceeds x by $10%$ then x is less than y by what percent	Question ID : 2391303364
ine all	Status : Answered
\times 1. 9 $\frac{1}{12}$	Chosen Option : 4
\times 2. $9\frac{1}{13}$	
500 A	
\times 3. 9 $\frac{1}{14}$	
√ 4. 9 1	
4. 9 11	
17 In a chemistry lab two beakers A and B contain 62% and 84% of spirit respectively. If two liters from A is mixed wideliters of B, the ratio of sprit and water in the resulting mixture is:	ith Constitut ID continue
ns X 1. 58:19	Question ID : 2391303357 Status : Answered
X 2 17:19	Chosen Option : 3
- Carlotte Carlotte	
3. 23:7	
× 4. 17:21	
.18 If $-5 \le x \le 1$ and $-1 \le y \le 5$, then the minimum value of $2y - 3x$ is	is: Question ID : 2391303345
ins √ 15	Status : Answered
X 2. −9	Chosen Option : 2
X 3. −8	
× 410	
10	
.19 The number of terms in the sequence 20, 25, 30,, 150 is	S: Question ID : 2391303365





Ans	X 1. 23	Status : Answered				
	× 2. 22	Chosen Option : 3				
	√ 3. 27					
	× 4. 26					
Q.20	An army post with 1800 men has provision of food for 50 days. After 10 days, some of the men go back to the base camp due to injuries. The remaining food is now enough for the next 50 days for the remaining men. What is the	Question ID : 2391303349				
	number of men who went back to the base camp?	Status : Answered				
Ans	X 1. 350 Men	Chosen Option: 2				
	✓ 2. 360 Men					
	× 3. 250 Men					
	× 4. 310 Men					
	The number of terms in the sequence 5, 20, 80, 320,, 81920 is:	Question ID : 2391303366				
Ans	X 1. 6	Status : Answered				
	X 2. 7	Chosen Option : 3				
	X 3. 9					
	✓ 4. 8					
	Mr. Deep divides Rs. 1833 such that 4 times the 1^{st} share, thrice the 2^{nd} share and twice the third share amount to the same. Then the value of the 2^{nd} share is:	Question ID : 2391303348				
Ans	X 1. Rs. 546	Status : Answered				
	✓ 2. Rs. 564	Chosen Option : 3				
	× 3. Rs. 560					
	× 4. Rs. 654					
23	A can finish the work in 25 days and B in 25 days. They both work together for 5 days and then B leaves. How many					
Ans	days will A take to complete the remaining work?	Question ID : 2391303355				
1113	X 1. 18 days	Status : Answered Chosen Option : 2				
	× 2. 20 days					
	X 3. 17 days					
	✓ 4. 15 days					
2.24	In a bio gas plant the population of yeast bacteria increases at a rate of 9% per annum, but there is an additional annual					
	increase of 1% in population due to various other inputs in the system. The percentage increase in the yeast population after 2 yrs is:	Question ID : 2391303351 Status : Answered				
Ans	X 1. 20%	Chosen Option : 3				
	2. 21%					
	× 3. 25%					
	× 4. 22%					
2.25	The average of 7 numbers is 29. The average of first three of them is 23 and the last three of them is 42. Then the fourth number is:	Question ID : 2391303346				
Ans	√ 1. 8	Status : Answered				
	X 2. 9	Chosen Option : 4				
	× 3. 10					
	★ 4. 12					
Section	on : Reasoning					
Q.1	Select the one which is different from other three.	Out. 10 0004000074				
Ans	✓ 1. GHST	Question ID : 2391303371 Status : Answered				
	× 2. EVFU	Chosen Option : 1				
	X 3. KPLO					
	X 4. IRJO					
	A. IKJU					





Q.2 What is related to 'Courage' in the same way as 'Kindness' is related to 'Cruelty'?

Ans 1. Cowardice

X 2. Bravery

X 3. Fear

× 4. Valour

Q.3 In a certain code language CARPET is written as FDUSHW. How will MOTHER be coded in that code language?

Ans X 1. PRWHUK

√ 2. PRWKHU

X 3. OPUIFS

X 4. REHTOM

Question ID: 2391303380 Status: Answered

Question ID: 2391303386

Status: Answered

Question ID: 2391303367

Status: Answered

Chosen Option: 2

Chosen Option: 3

Chosen Option: 1

Q.4 Four sets of three statements each are given below. Take these statements to be true even if they look factually absurd. Select one alternative in which third statement is implied by the first two statements.

Ans X 1.

All tables are chairs. All cupboards are tables. So, all chairs are cupboards.

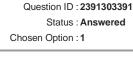
All J's are K's. All K's are M's. So, all M's are J's.

All apples are red. All bananas are apples. So, all bananas are red.

X 4.

All locks are keys. Some ball are keys. So, all locks are balls.

Q.5 How many triangles are there in the following figure?





Ans X 1. 20

√ 2. 28

X 3. 24

X 4. 12

Q.6 Choose the correct alternative that will complete the given number series.

9, 17, 31, 57, ?, 205

Ans 1. 107

X 2. 102

X 3. 104

X 4. 109

Question ID: 2391303374

Status: Answered

Chosen Option: 3

Q.7 Find the odd number pair from the given alternative.

Ans \times 1. 46 – 10

× 2. 42 – 33

X 3. 25 - 43

√ 4. 12 − 91

Question ID: 2391303372

Status: Answered

Chosen Option: 4

Q.8

Question ID: 2391303383

Status: Answered





Find the missing number from the given alternatives. Ans X 1. 42 **2**. 43 X 3. 41 X 4. 45 Question ID: 2391303390 Status: Answered Chosen Option: 4 Ans **X** 2. Q.10 'R' is the paternal uncle of 'P', who is the daughter of 'N' and 'N' is the daughter-in-law of 'M'. How is 'R' related to 'M'? Question ID: 2391303376 Ans X 1. Brother Status : Answered X 2. Cousin Chosen Option: 4 X 3. Son-in-law √ 4. Son Q.11 Mother's age is twice her daughter's age. The son is older than daughter by one year and father is five years older than mother. If son has completed 18 years, find father's age. Question ID: 2391303378 Ans X 1. 40 years Status: Answered Chosen Option: 2 2. 39 years X 3. 41 years





Q.19		Question ID : 2391303387
	× 4. 25 Metres, North	
	→ 3. 35 Metres, West	
	✓ 2. 25 Metres, East	Chosen Option : 2
Q.18 Ans	Shyam walked 20 metres towards south. Then he turned to his left and walked 15 metres. He again turned to his left and walked 20 metres. He then turned to his right and walked 10 metres. How far and in which direction is Shyam from the starting point? 1. 35 Metres, East	Question ID : 2391303384 Status : Answered
0.40	- 100.07 - 100.07	
	X 3. m n p n p X 4. n m n p p	
	2. mpnpn	
Ans	X 1. npmpn	Status : Answered Chosen Option : 2
	p_nnm_pmn_mp_mn_mp	Question ID : 2391303373
0.47	In the given letter series, which one set of letters when sequentially placed in the gaps shall complete it?	
	X4 STRONG	
	X 3. ORGAN	
-	✓ 2. REASON	Chosen Option : 2
Ans	organisation 1. GRANT	Status : Answered
Q.16	From the given alternatives select the word which cannot be formed using the letters of the given word.	Question ID : 2391303379
	× 4. 32	
	3. 30	74//
	X 2. 31	Chosen Option : 2
Ans	X 1. 29	Status : Answered
	In a row of boys, Vivek stands thirteenth from the left and Ravi is thirteenth from the right. If they interchange their places, Ravi would be eighteenth from the right. How many boys are there in the row?	Question ID : 2391303385
	E St. COMMUN.	
	✓ 3. 16 X 4. 14	
	X 2. 20	Chosen Option : 3
Ans	X 1. 26	Status : Answered
-	If '+' means 'x', '-' means '+', 'x' means '-' and '+' means '+', then what will be the value of $16 + 36 - 6 \times 2 + 3 = ?$	Question ID : 2391303381
	× 4. 5	
	× 3. 6	
	X 2. 4	
Ans	✓ 1. 1	
	2 5 4 1 2 3	Status : Answered Chosen Option : 3
Q.13	Three positions of a cube are shown below. Which number will be opposite to the face containing 3?	Question ID : 2391303388
	- 10 (000)	
	✓ 3. 62 × 4. 69	
	X 2. 65	
	X 1. 72	
	23:34::47:?	Chosen Option : 4
W.12	Select the related number from the given alternatives.	Question ID : 2391303369
Q.12	Select the related number from the given alternatives.	Question ID : 2391303369 Status : Answered





	Identify the diagram that best represents the relationship among classes given below.	Status : Answered
	Boys, Students, Athletes	Chosen Option : 1
Ans	X 1.	
	X 2.	
	X 3.	
	✓ 4.	
Q.20	Seven friends $-A$, B , C , D , E , F and G are sitting in a circle facing at the centre. 'E' is neighbour of A and D , ' G ' is not between 'F' and ' C ', 'F' is to the immediate right of ' A '. Who is sitting to the right of ' G '?	Question ID : 2391303377
	X 1. C	Status : Answered
	× 2. F	Chosen Option : 3
	✓ 3. D	
	X 4. A	
Q.21	Alok is older than Malvika. Gyan is older than Malvika but younger than Alok. Kamal is younger than Rashmi and Malvika. Malvika is older than Rashmi. Whose age is exactly in the middle of the five?	
Ans	MAIVIKA. MAIVIKA is older than Kashimi. Whose age is exactly in the initially of the rive? 1. Gyan	Question ID : 2391303375 Status : Answered
	✓ 2. Malvika	Chosen Option : 2
	× 3. Alok	
	× 4. Rashmi	
_	Rasillii	
Q.22	Select the figure from the alternatives which will complete the pattern in given question figure.	Question ID : 2391303389
	+ + ?	Status : Answered Chosen Option : 1
Ans	▼ 1. +	
	X 2.	
	X 3. +	
	X 4. X	

Q.23

Question ID : 2391303370





Status: Answered Identify the word which belongs to the class of given words. Chosen Option: 2 Grams, Kilograms, Quintal Ans X 1. Yard ✓ 2. Tonnes X 3. Litre X 4. Kilometer Q.24 Some equations are solved on the basis of a certain system. Find the correct value for '?' on that basis. Question ID: 2391303382 Status: Answered Chosen Option: 4 Ans X 1. 208 X 2. 105 X 3. 147 4. 176 Q.25 Select the related letter from the given alternatives. Question ID: 2391303368 Status: Answered CXFU: AZBY :: GTNM:? Chosen Option: 1 Ans V 1. EVJQ X 2. RIIP X 3. IRRD X 4. EROP Section : General English Q.1 In the following sentence, four words or phrases have been underlined. One of them is incorrect. Select the INCORRECT word or phrase from the given options. Question ID: 2391303394 You can be exempted from games only while you produce a medical certificate Status: Answered Ans 1. only while Chosen Option: 2 X 2. produce X 3. from X 4. can be Q.2 Select the word that best expresses the meaning of the given word. Question ID: 2391303400 Status: Answered COMPLIMENT Chosen Option: 2 Ans X 1. Agree √ 2. Admire X 3. Please X 4. Criticize Q.3 Select the ANTONYM of the given word. Question ID: 2391303403 Status: Answered **PRECIOUS** Chosen Option: 2 Ans X 1. Valued √ 2. Worthless X 3. Loved X 4. Costly Q.4 Select the word that is spelt INCORRECTLY. Question ID : 2391303408 Status: Answered ✓ 1. favaur Chosen Option: 1





	^ 2 fauna	
	× 3. faucet	
	× 4. fault	
0.5	Select the phrase that best expresses the meaning of the underlined word.	
Q. 5		Question ID : 2391303410
Ans	I am grateful to my teacher who persistently <u>scolded</u> me for poor spelling.	Status : Answered Chosen Option : 3
Alls	1. pulled me through	
	✓ 2. pulled me up	
	X 3. pulled me out	
	× 4. pulled me off	
Q.6	Select the option that completes the sentence CORRECTLY.	Outseting ID (0004000000
	My cousin felt annoyed with when he saw what had happened due to his ignorance.	Question ID : 2391303396 Status : Answered
Ans	✓ 1. himself	Chosen Option:1
	× 2. oneself	
	× 3. myself	
	× 4. itself	
Q.7	Select the phrase that best expresses the meaning of the underline word.	Question ID : 2391303409
	It was a serious offence but he was <u>allowed to go</u> with a warning.	Status : Answered
Ans	X 1. let down	Chosen Option : 2
	✓ 2. let off	
	X 3. let out	
	X 4. let aside	
	Tet distee	
Q.8	Find the appropriate meaning of the underlined idiom.	Question ID : 2391303411
	A true friend will stand by you through thick and thin.	Status : Answered
Ans	× 1. at the last moment	Chosen Option : 3
	× 2 in difficult times	
	³ under all circumstances	
	× 4. during summer time	
Q.9	Select the option that completes the sentence CORRECTLY.	Question ID : 2391303399
	N	Status : Answered
Δnc	Next week I to visit my cousin.	Chosen Option : 1
Ans	will intend	
	× 2. intended	
	× 3. intending	
	✓ 4. intend	
Q.10	Select the word that is spelt INCORRECTLY.	Question ID : 2391303406
Ans	X 1. Excel	Status : Answered
	× 2. Excess	Chosen Option : 4
	X 3. Access	
	✓ 4. Expell	
Q.11	1597×108 • 500114	
ut. II		Question ID: 2391303404





Status: Answered Select the ANTONYM of the given word. Chosen Option: 3 STRAIGHT Ans X 1. Weak X 2. Long √ 3. Crooked X 4. Short Q.12 Select the option that completes the sentence CORRECTLY. Question ID: 2391303398 Status: Answered If you have any queries to raise _____ please let me know now. Chosen Option: 3 Ans X 1. about X 2. up 3. no word required X 4. along Q.13 Select the word that best expresses the meaning of the given word. Question ID: 2391303402 Status: Answered CONCEAL Chosen Option: 2 Ans X 1. Deceive √ 2. Hide X 3. Free X 4. Detest Q.14 Select the word that best expresses the meaning of the given word. Question ID: 2391303401 Status: Answered TRANQUIL Chosen Option: 4 Ans 🗸 1. Calm X 2. Silent X 3. Active X 4. Tired Q.15 Select the ANTONYM of the given word. Question ID: 2391303405 Status: Answered DESPAIR Chosen Option: 4 Ans X 1. Detest X 2. Abandon X 3. Reject 4. Hope Q.16 In the following sentence, four words or phrases have been underlined. One of them is incorrect. Select the INCORRECT word or phrase from the given options. Question ID: 2391303393 A time <u>came when</u> Gautam Buddha <u>began to</u> feel weary <u>with</u> the luxuries surrounding him. Status: Answered Ans X 1. came Chosen Option: 4 X 2. when X 3. began to 4. with Q.17 Select the word that is spelt INCORRECTLY. Question ID: 2391303407 Ans Status: Answered ✓ 1. moltan Chosen Option: 1 X 2. molecule





Ans X 1. some	difficulty in obtaining your driving license.	Question ID : 2391303397 Status : Answered Chosen Option : 4
X 2. a great dealX 3. many✓ 4. any		
INCORRECT word or phrase from the	or phrases have been underlined. One of them is incorrect. Select the le given options. launched yesterday at the Vigyan Bhawan.	Question ID : 2391303392 Status : Answered Chosen Option : 3
Z This3 that was4 at		
.20 In the following sentence, four words INCORRECT word or phrase from the		Question ID : 2391303395 Status : Answered
 1 has 2 a variety 3 is found 4 If 		Chosen Option : 3







A desert is basically a wilderness or a wasteland. There is little moisture and poor soil such as sand gravel or rock. There are few plants to offer shade. Deserts can be described as harsh places. Many are burning hot by day and cold by night.

Every continent has deserts. Much of the western United States is a desert. A desert region called The Outback covers Central Australia. The southern tip of South America is largely desert. Northern Africa is covered by the Sahara, a desert as big as the mainland United States. The Arabian Peninsula, between the Persian Gulf and the Red Sea, is almost entirely desert. A large part of central Asia, from China to the Caspian Sea, is mostly desert. Deserts cover 1/8 of our planet.

The popular belief is that a desert is dry, hot, waterless and without shelter. But this is not entirely correct. For those who have studied it, the desert can be a beautiful place. It is home to a variety of people, animals and plants that have learnt to live under hot and dry conditions. A desert is not always a flat, unchanging wasteland of dry sand. It may have mountains and hills. It may have an oasis, big or small. An oasis is like a green island in the middle of a desert where a spring of a well gives plants and trees a better chance to grow.

All living things need water in order to survive. The few plants and animals that live in deserts have developed the ability to require less water than most plants and animals. Desert plants have adapted to heat and dryness of the desert. Plants such as cacti have special means of storing and conserving water. They often have few or no leaves. Some plants have gotten used to arid environments by growing extremely long roots, allowing them to acquire moisture at or by the water table.

The desert animals also have found a way to solve the heat and water problems the dessert environment creates. Camels can drink a lot of water at one time. They can live without water for days together. The reason is they sweat very little. We sweat because we must keep our body temperature constant. We sweat when it gets hot, and this cools the body. Camels can stand a high body temperature. They don't need to sweat and can therefore retain the water they drink for long periods of time.

SubQuestion No : 21

Q. What is the popular belief about the climatic conditions of a desert?

X 1

It is a region surrounded by mountains and hills.

V 2

It is sandy where no rain falls and no vegetation grow.



It has vast land which is used for cultivation of flowers.

Question ID : 2391303413
Status : Answered
Chosen Option : 2





X 4. A variety of animals and plants live there.

Comprehension Passage:

Read the following passage and answer the given questions.

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SubQuestion No : 22

Q. The desert region called 'The Outback' is located in:

An X 1. Central Asia

X 2. South America

X 3. North Africa

4. Central Australia

Comprehension Passage:

Question ID : 2391303414

Status : Answered





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SubQuestion No : 23

Q. Why has an oasis been called 'green' island?

An 🕡 1.

It has a source of water that supports vegetation.

X 2

It is surrounded by green hills and mountains.

X 3.

The sand here is conducive for the vegetation.

4. It is in the middle of a vast desert.

Comprehension Passage:

Question ID : 2391303415
Status : Answered





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SubQuestion No : 24

Q. Certain plants are able to survive in deserts because they:

An X 1 have thick stems and few leaves.

2 require less water than animals.

3.

have adapted to survive in hot and dry climate.

4. develop especially long roots.

Comprehension Passage:

Question ID : 2391303416 Status : Answered





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SubQuestion No : 25

Q. Which of the following statements is not true according to the passage?

An 🧳 1.

The Arabian Peninsula between the Persian Gulf and Caspian Sea is entirely desert.



In a desert region there is little moisture and poor soil. Question ID : 2391303417
Status : Answered
Chosen Option : 2





Camels can retain water for a long time because they do not sweat.



About 1/8 area of the earth is covered by deserts.

Section: Professional Knowledge

Q.1 Which of the following statements is TRUE?

Ans 🕡 1.

The cardinality ratio for a binary relationship specifies the maximum number of relationship instances that an entity can participate in.

X 2.

X 3.

The partial participation constraint is also called existence dependency.

X 4.

The cardinality ratio for a binary relationship specifies the average number of relationship instances that an entity can participate in.

Q.2 Which of the following represents the function of a Multiplexer?

Ans \times 1. Y = A + B

 \times 2. $Y = A \mid B$

X 3. Y = A & B

√ 4. Y = S? A: B

Q.3 The prefix equivalent of the following infix expression is:

a/b-c+d*e-a*c

Ans

✓ 1. -+-/abc*de*ac

X 2. + - - / abc * de * ac

X 3. -+/abc-*de*ac

X 4. --+/abc*de*ac

Q.4 Which of the following file-type arguments is used in fopen () library function to open a new file for both reading and writing, and destroys the file if a file with the specified file-name already exists in the current directory?

Ans X 1. "W"

✓ 2. "w+"

X 3. "a+"

X 4. "r+"

Q.5 Which of the following statements about IPv6 is FALSE?

Ans X 1. IPSec support is an integral part of IPv6.

IPv6 has no way to distinguish delay-sensitive packets from bulk data transfers.

In comparison to IPv4, IPv6 has improved header structure with less processing overhead.

IPv6 routers no longer have to fragment packets.

Q.6 Which of the following does not represent the total number of multiplications for multiplying four matrices of orders 20 × 2, 2 × 30, 30 × 12 and 12 × 8?

Ans X 1. 1232

× 2. 3680

Status: Answered Chosen Option: 1

Question ID: 2391303427

Question ID: 2391303477 Status: Answered

Chosen Option: 2

Question ID: 2391303441

Status: Answered

Chosen Option: 3

Question ID: 2391303507

Status: Answered

Chosen Option: 3

Question ID: 2391303509 Status: Answered

Chosen Option: 4

Question ID: 2391303450 Status: Answered





X 3. 10320 **4.** 8850 Q.7 Two schedules are said to be ______, if the order of any two conflicting operations is same in both the schedules. Question ID: 2391303485 √ 1. conflict equivalent Status: Answered Chosen Option: 4 2. schema equivalent X 3. result equivalent X 4. view equivalent Q.8 Which of the following data structures allows both addition and deletion of items from either end? Question ID: 2391303488 Ans ✓ 1. Double Ended Queue Status: Answered Chosen Option: 1 X 2. Queue X 3. Priority Queue X 4. Stack Q.9 Considering the relation schemas R (A, B, C, D) and S (C, D, E, F), what will be the degree of the resultant relation of the following Relational Algebra expression, where "*" represents the "natural join" operation? Question ID: 2391303487 $(\sigma_{c1}(\Pi_{A,B,C}(R)))^*(\sigma_{c2}(\Pi_{C,D,E}(S)))$ Status: Answered Ans X 1. 3 Chosen Option: 3 X 2. 4 X 3. 6 4. 5 Q.10 Which of the following will be the encoding of string "aabaabaca" using Huffman's coding? Question ID: 2391303449 Ans 🗸 1. 110111011001 Status: Answered X 2. 110111011111 Chosen Option: 2 X 3. 1101111111001 X 4. 110011011011 Q.11 Which of the following is the time complexity of dynamic programming algorithm to compute the Binomial coefficient ⁿC_k? Question ID: 2391303444 Ans \checkmark 1. $\Theta(nk)$ Status: Answered Chosen Option: 3 \times 2. $\Theta(k^n)$ \times 3. $\Theta(n^k)$ \times 4. $\Theta(n+k)$ Q.12 Which of the following constraints enforces that the value of the primary key cannot be Null? Question ID: 2391303430 Ans X 1. Key constraint Status: Answered Chosen Option: 1 2 Foreign key constraint 3 Entity integrity constraint X 4. Domain constraint Q.13 Two concurrent processes P and Q execute the following code. Question ID: 2391303515 Status: Answered w:__ print('0'); print('0'); Chosen Option: 4 print('1'); print('1'); Given S and T are binary semaphore variables, and P() and V() as standard "wait" and "signal" functions respectively. What should be the semaphore operations W, X, Y, and Z for the output string: 11001100...? Ans





```
W=P(T), X=V(S), Y=P(S), Z=V(T), S=1, T=0
      \times 2. W=P(T), X=V(S), Y=P(S), Z=V(T), S=T=1
      \times 3. W=P(T), X=V(T), Y=P(S), Z=V(S), S=T=1
      X 4.
     W=P(T), X=V(T), Y=P(S), Z=V(S), S=1, T=0
Q.14 The output of the following 'C' language code is:
                                                                                     Question ID: 2391303462
                                                                                          Status: Answered
     void main(){
                                                                                   Chosen Option: 3
       int x=1, i, y=2;
        for (i=0;i<10;i++)
               x << 1:
               y=x+i;
       printf("%d,%d",x,y);
Ans X 1. 10,11
      X 2. 1.1
       X 3. 10,1
        4. 1.10
Q.15 Which of the following protocols is built on client-server architecture and uses separate control and data connections between the client and the server?
                                                                                     Question ID: 2391303511
Ans 🗸 1. FTP
                                                                                          Status: Answered
                                                                                   Chosen Option: 1
      X 2. SMTP
      X 3. POP
      X 4. TELNET
Q.16 An organization has a Class B Network and wishes to form subnets for 60 departments. The subnet mask would be
                                                                                     Question ID: 2391303464
Ans X 1. 255.255.64.0
                                                                                          Status: Answered
      × 2. 255.255.0.0
                                                                                   Chosen Option: 2

√ 3. 255.255.252.0

      X 4. 255.255.255.0
Q.17 Which of the following is an NP-complete problem?
                                                                                     Question ID: 2391303448
                                                                                          Status: Answered
Ans X 1. Turing's Halting problem
                                                                                   Chosen Option: 4

    2. CNF-Satisfiability problem

      X 3. Presburger Arithmetic problem
     Number of Hamiltonian circuits in a complete graph of 'n' vertices with n > 2
Q.18 Which of the following is/are FALSE?
                                                                                     Question ID: 2391303456
           Operator precedence parser works on ambiguous grammar
                                                                                          Status: Answered
           Top-down parser works on left recursive, unambiguous and deterministic grammar
       III) LL(1) is a non-recursive descent parser
                                                                                   Chosen Option: 3
           CLR(1) is the most powerful parser
Ans 🗸 1. Only II
      X 2. I, II, III and IV
       X 3. II and IV
```





X 4. I, III and IV Q.19 The data type of the variable "var1" declared in the following 'C' language statement is: Question ID: 2391303501 Status: Answered Ans 🗸 1. int Chosen Option: 1 X 2. double X 3. char X 4. float Q.20 Which of the following problem cannot be solved using greedy approach? Question ID: 2391303447 Ans 1. 0-1 knapsack Status: Answered Chosen Option: 2 X 2. Job scheduling X 3. Minimum spanning tree X 4. Huffman code Q.21 The decimal number 395, when converted into binary occupies ______ binary digits, whereas when it is represented using BCD codes, occupies ______ binary digits. Question ID: 2391303420 Ans X 1. 12; 9 Status: Answered Chosen Option: 3 X 2. 7; 12 **3**. 9; 12 X 4. 12; 7 Q.22 Match the following. Question ID: 2391303467 Status: Answered List II List I Chosen Option: 3 P) Loss of energy Attenuation Q) Changes in shape of the signal Shannon capacity III) Nyquist bit rate R) Noisy channel IV) Distortion S) Noiseless channel Ans \times 1. I-P, II-Q, III-R, IV-S✓ 2. I – P, II – R, III – S, IV – Q \times 3. I – S, II – R, III – Q, IV – P X 4. I − Q, II − P, III − S, IV − R Q.23 Which of the following relation schema is always in BCNF? Question ID: 2391303429 Ans X 1. R(A, B, C, D) Status: Answered Chosen Option: 4 X 2. R(A, B, C) X 3. R(A, B, C, D, E) √ 4. R(A, B) Q.24 Let K_{2,2} be a complete bipartite graph given below. Which of the following is the total number of paths of length 3 from Question ID: 2391303499 Status: Answered Chosen Option: 4 Ans X 1. 2 X 4. 1 Q.25 Question ID: 2391303500 Status: Answered Chosen Option: 2





Consider the list of numbers 1, 2, 3, ..., 1000 is stored in a[0..999]. What will be the total number of comparisons to search x = 501 using the following binary search () function?
$$\label{eq:continuous} \begin{split} & \text{int binary search(int a[], int n, int } x) \{ \text{ int low=0, high=n-1}; \\ & \text{while(low <= high) {int } m = (low + high) / 2; \\ & \text{if}(x > a[m]) \quad low = m + 1; \\ & \text{else if}(x < a[m]) \quad high = m - 1; \\ & \text{else return } m; \end{split}$$
return -1; Ans X 1. 2 X 2. 15 **3**. 17 X 4. 1 Q.26 Match the following. Question ID: 2391303514 Status: Answered A. Moves suspended process to secondary storage Short-Term Schedular I. B. Loads the processes into memory for execution II. Dispatcher Chosen Option: 1 III. Medium- Term Scheduler C. Moves one of the processes to Running state D. Allocates CPU to a process IV. Long-Term Scheduler Ans \checkmark 1. A – III, B – IV, C – I, D – II \times 2. A-II, B-I, C-IV, D-III X 3. A − III, B − I, C − II, D − IV X 4. A − II, B − IV, C − I, D − III Q.27 Which of the following is the Postorder traversal of the binary tree whose Inorder and Preorder traversals are as follows? Question ID: 2391303437 OLCHJBEKNGMADFI In-order : OLCHJBEKNGMADFI Preorder : KHLOCBJEAGNMFDI Status: Not Attempted Chosen Option: --Ans X 1. ADFLIBNCJEMGHOK X 2. OCLJEBGDIAFNMHK X 3. ADFLIBNMGJCEHOK ✓ 4. OCLJEBHNMGDIFAK Q.28 If P is a two-dimensional array having 10 rows and 20 columns, then which of the following cannot be used to acceed the element in row 2 and column 5? Question ID: 2391303504 Ans X 1. P[2][5] Status: Answered Chosen Option: 4 \times 2. *(*(P+2)+5) \times 3. *(P[2] + 5) \checkmark 4. *(P + 2 + 5) Q.29 Given total number of instances of a resource to be 18, three processes (P1, P2, and P3) and the resource requirement and allocation table are given below. Which of the following orders of process execution forms a safe (deadlock free) Question ID: 2391303471 sequence? Status: Answered Process Max. Need Allocation P1 Chosen Option: 2 Ans X 1. <P1, P2, P3> ✓ 2. <P3, P1, P2> X 3. <P1, P3, P2> X 4. <P2, P1, P3> Q.30 What will be the "First" and "Follow" of E and F for the following grammar? Question ID: 2391303458 E->TE Status: Answered E'->+TE'/8 T->FT Chosen Option: 2 T'->*FT'/E F->id/(E) Ans X 1.

 $First(E) = \{id, (\}, Follow(E) = \{\$,)\}, First(F) = \{id, (\}, Follow(F) = \{*, \$,), +\}$





 $First(E) = \{id, j, E\}, Follow(E) = \{E, j\}, First(F) = \{id, j\}, Follow(F) = \{*, S, (, +\}, Follo$



 $First(E) = \{id, j\}, Follow(E) = \{\$, j\}, First(F) = \{id, (, \$\}, Follow(F) = \{*, \$, j, +\}\}$

Q.31 Which of the following recurrence relation can be solved using Master theorem?

Ans
$$X$$
 1. $T(n) = 64T(n/8) - n$

$$X = T(n) = 2T(n/2) + n/(\log n)$$

$$X$$
 3. $T(n) = 2^n T(n/2) + n$

$$\checkmark$$
 4. $T(n) = 2T(n/2) + 1$

Q.32 Which of the following statements is TRUE for the grammar given below? S->(L)/a

L->L,S/S

Ans X 1.

The grammar can be parsed by LR(0) parser only

The grammar can be parsed by LR(0) and SLR(1) parsers

The grammar can be parsed by LL(1) parser only

X 4.

The grammar can be parsed by LL(1) and LR(0) parsers

Q.33 Match the following.

Class-A IP address

A) 8 bit host id and 24 bit network id

II) Class-B IP address III) Class-C IP address B) 16 bit host id and 16 bit network id C) 24 bit host id and 8 bit network id

Ans \times 1. I - C, II - A, III - B

√ 2. I – C, II – B, III – A

X 3. I − A, II − B, III − C

★ 4. I – B, II – C, III – A

Q.34 The number of tokens in the following 'C' language statement is:

printf("The number of tokens are %d", &tcount);

Ans 1. 8

X 2. 9

X 3. 10

X 4. 11

Q.35 Suppose that we have an ordered file with r = 30000 records stored on a disk with block size B = 1024 bytes. If file records are of fixed size and are unspanned with record length R = 100 bytes, the blocking factor for the file and the number of blocks needed for the file are _____ and _____ respectively.

Ans X 1. 110, 3000

2. 10, 3000

X 3. 110, 30000

X 4. 10, 300

Q.36 If $L = \{ab, c\}$ is a language over the set $A = \{a, b, c\}$, then L^3 is:

Ans X 1. {ababe, abcab, abc², cabab, cabe, c²ab, c³}

Question ID: 2391303443

Status: Answered

Chosen Option: 2

Question ID: 2391303457

Chosen Option: 4

Status: Answered

Question ID: 2391303510

Status: Answered

Chosen Option: 2

Question ID: 2391303455 Status: Answered

Chosen Option: 1

Question ID: 2391303435

Status: Answered

Chosen Option: 3

Question ID: 2391303453 Status : Answered





{ababab, ababe, abcab, abc², cabab, c²ab, c³}

{ababab, ababe, abcab, abc²abab, cabab, cabe, c²ab, c³}

{ababab, ababe, abeab, abe², cabab, cabe, c²ab, c³}

Q.37 Consider the following Adjacency matrix corresponding to some weighted Graph 'G'

Vertex	1	2	3	4	5
1	0	5	0	10	2
2	5	0	4	6	2
3	0	4	0	1	0
4	10	6	1	0	7
5	2	2	0	7	0

What is the weight of the minimum spanning tree for the graph 'G'?

Ans X 1. 11

2. 9

X 3. 10

X 4. 8

Q.38 Which of the following is used to specify whether the existence of an entity depends on its being related to another entity via the relationship type?

Ans X 1. Entity integrity constraint X 2. Foreign key constraint

X 3. Cardinality ratio

4 Participation constraint

Q.39 Logical data independence is the ability to change

schema without having to change

Ans X 1. internal; external

× 2. conceptual; internal

3. conceptual; external

X 4. internal; conceptual

Q.40 Which of the following addressing modes is more appropriate for accessing elements of an array?

Ans 1. Index mode

X 2. Auto increment mode

X 3. Displacement mode

X 4. Register mode

Q.41 Which of the following 'C' language arithmetic expressions has logical error?

Ans \times 1. -13 % -5 + 3;

√ 2. 4 / (-10 % -2) / 3;

X 3. 3 / (-13 % -5) / 3;

X 4. -5 % 3 / 13:

Question ID: 2391303442

Status: Answered

Chosen Option: 1

Question ID: 2391303483

Status: Answered

Question ID: 2391303484

Status: Answered

Chosen Option: 4

Question ID: 2391303474

Status: Answered

Chosen Option: 1

Chosen Option: 4

Question ID: 2391303502

Status: Answered

Chosen Option: 2

Q.42

Question ID: 2391303424 Status: Answered





Match the following. List-1 List-2 (I) (X')' (A) De Morgan law (II) (X + Y)' = X'.Y'(B) Involution (III) X(X + Y) = X(C) Distributive (IV) X + YZ = (X + Y)(X + Z)(D) Absorption Ans \times 1. I-D, II-A, III-B, IV-CX 2 I - C, II - A, III - D, IV - B √ 3. I – B, II – A, III – D, IV – C X 4. I − B, II − D, III − A, IV − C Q.43 Which of the following statements is FALSE? Question ID: 2391303423 Status: Answered Ans X 1. Johnson counter is a synchronous counter. Chosen Option: 4 2. Ripple counter is an asynchronous counter. Asynchronous counters are slower than synchronous counters. A counter may count up or count down, but cannot count both up and down. Question ID: 2391303433 $R(A, B) = \{ <a1, b1>, <a2, b1>, <a3, b1>, <a4, b1>, <a1, b2>, <a3, b2>, <a2, b3>, <a3, b3>, <a4, b3>, <a1, b4>, <a2, b4>, <a2, b4>, <a3, b4> \}$ Status: Answered $S(A) = \{a1, a2, a3\}$ What is the value of T ← R / S, where "/" represents the Relational Algebra "division" operation Chosen Option: 2 Ans X 1. $T(B) = \{b1, b3\}$ \times 2. T(B) = {b1, b2, b4} \checkmark 3. $T(B) = \{b1, b4\}$ \times 4. T(B) = {b1, b3, b4} Q.45 Considering the following key using a block of five characters, encryption of the message "NETWORKING" using the Transposition Cipher is: Question ID: 2391303465 Plaintext : 5 4 3 2 1 Ciphertext : 1 2 3 4 5 Status: Answered Ans X 1. GNIKROWTEN Chosen Option: 1 X 2. OGWNTIEKNR ✓ 3. OWTENGNIKR A NREKTIWNOG **Q.46** If every production is of the form $\alpha \to \beta$ where $|\alpha| \le |\beta|$ or of the form $\alpha \to \lambda$, then the grammar is said to be of: Question ID: 2391303452 Ans X 1. Type 3 Status: Answered Chosen Option: 2 √ 2. Type 1 X 3. Type 0 4. Type 2 Q.47 Assume that source S and destination D are connected through five intermediate routers R1, R2, R3, R4 and R5.
Determine how many times each packet has to visit the Network layer and the Data Link layer during transmission from Question ID: 2391303463 Status: Answered Chosen Option: 4 Network Layer: 7 times, Data Link Layer: 12 times

Network Layer: 5 times, Data Link Layer: 12 times

Network Layer: 12 times, Data Link Layer: 12 times

X 3.





Network Layer: 7 times, Data Link Layer: 7 times

Q.48 Which of the following statements about the "DELETE" command is FALSE?

X 1. It removes tuples from a relation (table).

It removes tuples as well as the relation (table).

A missing WHERE clause specifies that all tuples in the relation are to be deleted.

Depending on the number of tuples selected by the condition in the WHERE clause, zero, one or several tuples can be deleted by a single DELETE command.

Q.49 Given the Burst Time (BT) of 4 processes P1, P2, P3 and P4 as BT(11, 12, 13, 14) = (4, 8, 6, 7), smoothening factor(a) = 0.5 and T1=10, what will be the burst time of process P5 for Shortest Job First scheduling, using the technique of exponential averaging:

Ans 🗸 1. 6.875 unit time

X 2. 6.25 unit time

X 3. 5.785 unit time

X 4. 5.5 unit time

Q.50 In order to sort list of numbers using radix sort algorithm, we need to get the individual digits of each number 'n' of the list. If n is a positive decimal integer, then it digit, from right, of the number n is:

$$\checkmark$$
 1. $\left[\frac{n}{10^{i-1}}\right]\%10$

 $\times 2 \left[\frac{n}{10^i} \right] \% 10$

 \times 3. $\left[\frac{n}{10^{i-1}}\right]\%10$

 \times 4. $\left|\frac{n}{10^i}\right|$ %10

Q.51 Which of the following statements about "total specialization" constraint is TRUE?

Every entity in the subclass must be a member of the superclass.

Every entity in the superclass must be a member of at least one subclass in the specialization.

X 3.

At least one entity in the superclass must be a member of at least one subclass in the specialization.

X 4.

Every entity in the superclass must be a member of all subclasses in the specialization.

Q.52 In a B-Tree of order m (m > 1), every non-leaf node (except root node) has the number of children between

Ans \times 1. m/2 and m

 $\sqrt{2}$ |m/2| and m

 \times 3. |m/2| and m

 \times 4. |m/2| and |m/2|

Q.53 Which of the following statements about Secure Shell Protocol (SSH) is FALSE?

Ans V 1.

SSH cannot be used for file transfer and e-mail tasks.

SSH provides a secure client/server communication.

3. SSH runs on top of the TCP/IP layer.

X 4. SSH is a network protocol.

Question ID: 2391303431 Status: Answered

Chosen Option: 2

Question ID: 2391303472 Status: Answered

Chosen Option: 2

Question ID: 2391303498 Status: Answered

Chosen Option: 2

Question ID: 2391303428

Status: Answered

Chosen Option: 3

Question ID: 2391303496 Status: Answered

Chosen Option: 2

Question ID: 2391303512

Status: Answered





Which of the following statements is INCORRECT with respect to pointers declared in the following 'C' language

void main() {
 int a[10], *p, *q; p=&a[5]; q=&a[7];

Status: Answered Chosen Option: 3

Question ID: 2391303460

Ans X 1. q-p

X 2. P+1

X 3. q-3

√ 4. P+q

Q.55 Considering the process details given in the following table, what will be the completion order of the processes under the policies FCFS and RR (with CPU quantum of 2 time units)?

Process ID	CPU Burst	Arrival Time	
P1	5	3	
P2	7	2	
P3	5	0	

Question ID: 2391303516 Status: Answered

Question ID: 2391303451

Question ID: 2391303446

Status: Answered

Status: Answered

Chosen Option: 3

Chosen Option: 2

Chosen Option: 3

Ans X 1. FCFS: P1, P2, P3 and RR: P1, P2, P3

✓ 2. FCFS: P3, P2, P1 and RR: P3, P1, P2

X 3. FCFS: P3, P2, P1 and RR: P3, P2, P1

X 4. FCFS: P1, P3, P2 and RR: P1, P2, P3

Q.56 Which of the following represents the language over the set A = {a, b} consisting of all words beginning with one or more a's and followed by the same number of b's?

Ans $X = \{a, ab, ab^2, ...\}$

 $X = \{a^m b^n : m > 0, n > 0\}$

 \checkmark 3. $L = \{a^m b^m : m > 0\}$

 $X = \{b^m a b^n : m \ge 0, n \ge 0\}$

Q.57 Which of the following is the every-case time complexity of dynamic programming algorithm for "traversing salesperson" problem to traverse 'n' cities?

Ans \times 1. $\Theta(\log n2^n)$

 \checkmark 2. $\Theta(n2^n)$

 \times 3. $\Theta(2^n)$

 \times 4. $\Theta(n^2 2^n)$

Q.58 Which of the following statements related to Cache memory organization is FALSE?

In "write through" approach, main memory content is always invalid.

X 2.

In "write back" approach, updates are made only in the cache and it minimizes memory writes.

X 3.

Least Recently Used (LRU) replacement algorithm can be used in associative and set associative mappings.

X 4.

For direct mapping, no replacement algorithm is needed.

Q.59 If D = {R1, R2} is a decomposition of R, and F is the set of functional dependencies on R, then which of the following ensures that the decomposition D is lossless (nonadditive)?

 \checkmark 1. ((R1 ∩ R2) → (R1 – R2)) ∈ F⁺

 \times 2. $((R1 \cap R2) \rightarrow (R1 - R2)) \notin F^+$

 \times 3. $((R1 \cup R2) \rightarrow (R1 - R2)) \in F^+$

 \times 4. $((R1 \cap R2) \rightarrow R1) \in F^+$

Q.60 The 9's compliment of the decimal number 139452 is:

X 1. 971658

Question ID: 2391303478 Status: Answered

Chosen Option: 2

Question ID: 2391303434

Status: Answered

Chosen Option: 3

Question ID: 2391303418 Status: Answered





× 2. 971659

√ 3. 860547

X 4. 860548

Q.61 A flip-flop has a 20-nano second delay from the time its CP input goes from 1 to 0 to the time the output is complimented. What is the maximum delay in a 16-bit binary ripple counter that uses these flip-flops?

Ans X 1. 20 ns

✓ 2. 320 ns

X 3. 36 ns

X 4. 16 ns

Q.62 Let L be the language on A = {a, b, c} which consists of all words of the form $w = a^r b^s c^t$ where r, s, t > 0. Which of the following is the valid regular expression 'r' such that L = L(r)?

Ans $X = a^*b^*c^*$

 $X = aa^*bb^*c^*$

X 3. $r = aa^*b^*cc^*$

 $\sqrt{4}$ r = aa*bb*cc*

Q.63 Match the following.

List-I

List-II

Dijkstra's Algorithm P) Divide and Conquer Approach

Tower of Hanoi

Q) Greedy Approach

III) Floydd-Warshall Algorithm R) Dynamic Approach

IV) Merge Sort

S) Recursion

Ans \checkmark 1. I-Q, II-S, III-R, IV-P

 \times 2. I - S, II - Q, III - P, IV - R

 \times 3. I - S, II - Q, III - R, IV - P

X 4. I − Q, II − S, III − P, IV − R

Q.64 The listing of nodes after applying the preorder traversal over the following binary tree is



Ans X 1. A, B, D, H, I, E, J, K, C, F, G, L

X 2. H. D. I. B. J. E. K. A. L. F. C. G

X 3. H, I, D, J, K, E, B, L, F, G, C, A

√ 4. A, B, D, H, I, E, J, K, C, F, L, G

Q.65 Consider the following relation schema R along with the tuples.

Employee(name, salary) = {<e1, 10000>, <e2, 5000>, <e3, 2500>, <e4, 7500>, <e5, 8900>, <e6, 9800>}

SELECT name, MAX(salary) FROM Employee WHERE salary < (SELECT MAX(salary) FROM Employee):

Question ID: 2391303486 Status: Answered Chosen Option: 3

Chosen Option: 3

Chosen Option: 2

Chosen Option: 2

Chosen Option: 1

Question ID: 2391303422

Question ID: 2391303454

Question ID: 2391303440 Status: Answered

Question ID: 2391303494 Status: Answered

Chosen Option: 4

Status: Answered

Status: Answered

Ans X 1. <e3, 2500>

X 2. <e5, 8900>

√ 3. <e6, 9800>

X 4. <e1, 10000>

Q.66 Maximum number of edges in a simple graph with 'n' vertices and 'k' components is:

Ans \times 1. $\frac{(n-2)(n-1)}{2} + 1$

Question ID: 2391303438 Status: Answered





 \checkmark 2. $\frac{(n-k)(n-k+1)}{2}$

 \times 4. $\frac{(n)(n-1)}{2}$

Q.67 The number of elements in a one-dimensional array with lowest and highest index values as -1024 and 1024 is:

Ans X 1. 2048

X 2. 0

X 3. 1024

4. 2049

Q.68 Total number of spanning tree of a complete graph of 4 vertices K4 is:

Ans X 1. 15

V 2. 16

X 3. 3

X 4. 17

Q.69 Which of the following relationships holds for non-random-access memory, where T_n = average time to read or write bits, T_n = average access time, n = number of bits and r = transfer rate in bits per second?

Ans X 1. $T_a = T_n + n/r$

 $\sqrt{2}$ 2. $T_n = T_a + n/r$

X 3. $T_a = T_n + r/n$

 $X = T_n = T_a + r/n$

Q.70 Match the following.

A) RAID 0

I) Independent access

II) Parallel access

III) Mirroring

IV) Striping

Ans \times 1. I - B, II - C, III - D, IV - A

√ 2. I – C, II – B, III – D, IV – A

 \times 3. I – A, II – D, III – B, IV – C

X 4. I - B, II - A, III - D, IV - C

Q.71 Consider an information exchange scenario where Anthony is the sender and Bond is the intended recipient of the data. Match the following appropriately.

List I

I) Message authentication

A) Anthony must not be able to deny sending a message that he or she, in fact, did send

List-2

B) RAID 3

C) RAID 5

D) RAID 1

II) Message confidentiality

B) The message must arrive at the Bond's side exactly as it was sent
 C) Bond needs to be sure of Anthony's identity and that an imposter has not sent the message

III) Message integrity

IV) Message non-repudiation

D) The transmitted message must make sense to only Bond, and to all others it must be garbage

Ans X 1. I-C, II-B, III-D, IV-A

 \times 2. I – C, II – D, III – A, IV – B

√ 3. I – C, II – D, III – B, IV – A

X 4. I − A, II − D, III − B, IV − C

Q.72 If the address of the operand is embedded in the instruction code itself, then the addressing mode is termed as:

Ans X 1. Register mode

Question ID: 2391303436

Status: Answered

Chosen Option: 1

Question ID: 2391303497

Status: Answered

Chosen Option: 2

Question ID: 2391303481

Status: Answered

Chosen Option: 2

Question ID: 2391303480

Status: Answered

Chosen Option: 4

Question ID: 2391303470

Status : Answered

Chosen Option: 3

Question ID: 2391303475 Status: Answered





✓ 2. Direct mode X 3. Displacement mode X 4. Immediate mode Q.73 Consider the pr Question ID: 2391303517 Status: Answered Chosen Option: 2 A new pre-emptive scheduling algorithm is proposed, i.e., the Longest Remaining Time Next (LRTN), wherein ties are broken by giving priority to the process with the highest priority. Calculate the following. i. Turnaround time for Process P2 ii Response time for Process P3 Ans 🗸 1. (i) 20, (ii) 6 X 2. (i) 19, (ii) 3 X 3. (i) 19, (ii) 8 X 4. (i) 20, (ii) 7 Q.74 Under normal circumstances, the cardinality ratio of the binary relationship "Write" relating "Author" and "Book" entities is: Question ID: 2391303482 Ans X 1. 1: N Status: Answered Chosen Option: 4 X 2. N:1 X 3. 1:1 √ 4. M: N Q.75 If T is a binary tree with N nodes, then the number of levels is at least: Question ID: 2391303489 ✓ 1. $|log_2(N+1)|$ Status : Answered Chosen Option: 1 X 2. N-1 X 3. N \times 4. $\lfloor \log_2(N+1) \rfloor$ Q.76 Which of the following declares 'pf' as a pointer to a function, which returns an integer quantity and requires two integer arguments? Question ID: 2391303505 Ans X 1. int *pf(int, int); Status : Answered Chosen Option: 2 √ 2. int (*pf) (int, int); X 3. (int *) pf(int, int); X 4 int (int *pf(int, int)); Q.77 The output of the following 'C' language code is: Question ID: 2391303461 Status: Answered void main(){ Chosen Option: 1 char arr[10]; arr = "world"; printf("%s", arr); Ans X 1. world X 2. world5 X 3. world10 4 L-value required error Q.78 Interrupt generated due to which of the following operations does not belong to program-related interrupt category? Question ID: 2391303476 Ans X 1. Division by zero Status: Answered Chosen Option: 2





X 2. Attempt to execute an illegal machine instruction √ 3. Memory parity error X 4. Reference outside a user's allowed memory space Q.79 The counter implemented by the following circuit diagram where inputs to the NAND gate are the outputs of the B and C flip-flops, is: Question ID: 2391303425 Status: Answered Chosen Option: 4 Ans X 1. MOD-7 Counter √ 2. MOD-6 Counter 3. MOD-8 Counter 4. MOD-4 Counter Q.80 What will be the minimum Hamming distance for the following coding scheme? Question ID: 2391303466 Code Word Data Word Status: Answered 00111 Chosen Option: 3 01 01001 10 10101 11100 Ans X 1. 1 **2**. 2 X 3. 3 X 4. 4 Q.81 In clustering index, the number of index entries is same as the number of: Question ID: 2391303432 Ans X 1 attributes in data file Status: Answered Chosen Option: 3 × 2. records in data file X 3. blocks in data file 4. distinct index field values Q.82 Which of the following operators can be used if a portion of a given bit patterns needs to be copied to a new word, while the remainder of the new word is filled with 0s? Question ID: 2391303508 Ans X 1. Logical AND Status : Answered Chosen Option: 2 ✓ 2. Bitwise AND X 3. Bitwise OR X 4. Bitwise XOR

> Question ID: 2391303473 Status: Answered

Chosen Option: 2

Q.83 Let each process P_i, i=1 to 7 executes the following code.

P(mutex);

V(mutex);

The process P8 executes the following code: repeat

V(mutex); V(mutex); forever

What is the maximum number of processes that can be present in the critical section at any point of time? Given that the initial value of binary semaphore variable "mutex" is 1.

Ans X 1. 7

V 2. 8

X 3. 1

X 4. 10





Q.84 Which of the following is the best-case time complexity of Floyd's algorithm for finding shortest paths in a graph with Question ID: 2391303445 \times 1. $\Theta(n^2)$ Status: Answered Chosen Option: 1 \times 2. $\Theta(1)$ \times 3. $\Theta(n)$ \checkmark 4. $\Theta(n^3)$ Q.85 State TRUE or FALSE for the following. Question ID: 2391303468 A sine wave with a phase of 180° starts at time 0 with a zero amplitude. The amplitude is decreasing If a signal changes instantaneously, its frequency is zero. Status: Answered (iii) In bipolar encoding, we use three voltage levels; positive, negative and zero.

(iv) Infrared signals can be used for short-range communication in a closed area to Chosen Option: 2 Ans V 1. (i) TRUE, (ii) FALSE, (iii) TRUE, (iv) FALSE (i) TRUE, (ii) TRUE, (iii) TRUE, (iv) FALSE X 3. (i) FALSE, (ii) TRUE, (iii) FALSE, (iv) FALSE (i) TURE, (ii) TRUE, (iii) FALSE, (iv) FALSE Q.86 Consider the characters and their frequency counts given in the following table. Question ID: 2391303439 Status: Answered Chosen Option: 3 Using the Huffman coding technique, which of the following is the valid code for character 'c'? Ans X 1. 11111 2. 1110 X 3. 11110 X 4. 110 Q.87 A block of addresses is granted to a small organization. If one of the addresses is 210,32,64.79/26, then what will be the values of the following? Question ID: 2391303469 (i) First address (ii) Last address Status: Answered Chosen Option: 2 Ans 1. (i) 210.32.64.64, (ii) 210.32.64.127, (iii) 64 × 2. (i) 210.32.64.64, (ii) 210.32.64.255, (iii) 32 X 3. (i) 210.32.64.79, (ii) 210.32.64.255, (iii) 64 X 4. (i) 210.32.64.64, (ii) 210.32.64.79, (iii) 128 Q.88 A takes a directed graph G and produces a linear ordering of all its vertices such that for every directed edge <v, w> in G, the vertex v comes before the vertex w in the ordering. Question ID: 2391303492 Ans X 1. breadth first search; acyclic Status: Answered Chosen Option: 3 2. topological sort; acyclic 3 breadth first search; cyclic X 4. topological sort; cyclic Q.89 Match the following. Question ID: 2391303495 Status: Answered List I List II Chosen Option: 1 I) Stack P) Non-linear II) Heap tree Q) Complete binary tree III) Tree R) Ordered list

Binary search

S) Linear





Ans \times 1. I - S, II - R, III - P, IV - Q√ 2. I – S, II – Q, III – P, IV – R \times 3. I - S, II - P, III - Q, IV - R X 4. I − P, II − Q, III − R, IV − S Q.90 Which of the following statements is TRUE for the function prototype declaration given below? Question ID: 2391303506 Int *(*P) (char *Q[]); Status: Answered Ans X 1. Chosen Option: 3 P is a function that accepts an argument which is a character array and returns a pointer to an integer quantity. X 2. P is a function that accepts an argument which is a pointer to a character array and returns a pointer to an integer P is a pointer to a function that accepts an argument which is an array of character pointers, and returns a pointer to an integer quantity. **X** 4. P is a pointer to function that accepts an argument which is a character array and returns a pointer to an integer quantity Question ID: 2391303513 #include <stdio.h> Status: Answered void main() {
fork(); fork();
printf("child process created"); Chosen Option: 3 Ans X 1. 9 X 2. 7 **3.** 8 X 4. 3 Q.92 What is the output when the following segment of 'C' code is executed? Question ID: 2391303503 Status: Answered void main(){ float a = 123.456; Chosen Option: 2 printf("%7.2f, %7.3f, %12e", a, a, a); Ans X 1. 123.450, 123.4560, 1.234560e+02 √ 2. 123.46, 123.456, 1.234560e+02 X 3. 123.456000, 123.456, 0.1234560e+03 X 4. 123.45, 123.4560, 1.234560e+02 Q.93 Which of the following is a seven-bit code? Question ID: 2391303419 Ans 🗸 1. Biquinary code Status: Answered Chosen Option: 2 X 2. BCD code X 3. 2421 code X 4. Excess-3 code Q.94 Which of the following attributes can be considered as composite, single-valued and key attribute? Question ID: 2391303426 Ans X 1. Age Status: Answered Chosen Option: 2 X 2. Date of birth X 3. Gender 4. Enrollment number Q.95 Question ID: 2391303491 Status: Answered





Which of the following statements about the following binary tree is FALSE? Ans 🗸 1. It is a binary search tree. X 2. It is a complete binary tree. X 3. Nodes 'J' and 'K' are siblings. Y 4. Node 'B' is the ancestor of node 'J'. Q.96 The default storage class for functions in 'C' language is: Question ID: 2391303459 Ans X 1. Static Status: Answered Chosen Option: 2 X 2. Register √ 3. Extern X 4. Auto Q.97 If T is a binary tree with number of levels as L, then the number of leaf nodes in the binary tree is at most: Question ID: 2391303490 Ans X 1. 2L+1 Status: Answered X 2. 2L Chosen Option: 2 X 3. 2L √ 4. 2L-1 Q.98 If a connected graph G does not contain any vertex whose removal disconnects the rest of the graph, then G is called: Question ID: 2391303493 Ans 🗸 1. Biconnected graph Status: Answered Chosen Option: 2 X 2. Separable graph X 3. Forest X 4. Diagraph Q.99 Consider a cache memory organization with *m* lines in which the cache is divided into *v* sets, each of which consists of *k* lines. The set associative mapping technique reduces to direct mapping when: Question ID: 2391303479 Ans \times 1. v = m and k = mStatus: Answered Chosen Option: 2 \times 2. v = 1 and k = m $\sqrt{3}$ v = m and k = 1 \times 4. v = 1 and k = 1 Q.10 Consider a memory unit of size 96 K × 16, where first component represents the total number of words and that the second component represents the number of bits per word. What will be the number of address lines and input-output data lines? Question ID: 2391303421 Status: Answered Ans X 1. 16 address lines, 7 data lines Chosen Option: 2 X 2. 7 address lines, 16 data lines 3. 17 address lines, 16 data lines X 4 16 address lines, 17 data lines