

# GOVT. OF NCT OF DELHI



# Delhi Subordinate Services Selection Board FC-18, Institutional Area, Karkardooma, Delhi – 110092.

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Participant ID	
Participant Name	
TELEGRAM LINK	
Test Date	11/07/2021
Test Time	9:00 AM - 12:00 PM
Subject	PGT-Computer Science (Female)

### Section : Mental Ability

Q.1 A + B means A is father of B. A – B means A is son of B. A × B means A is mother of B. A ÷ B means A is sister of B. Which of the following means N is grandson of Q?

Anc

X 1. J ÷ N + M – Q

**√** 2. N − M − Q

X 3. P + J ÷ N – M ÷ Q

X 4. Q + M + N ÷ J

Question ID: 2752289

Q.2 In the following question, four number pairs are given. The number on left side of (–) is related to the number of the right side of (–) with some Logic/Rule/Relation. Three are similar on basis of same Logic/Rule/Relation. Select the odd one out from the given alternatives.

Ans

1. 79 – 172

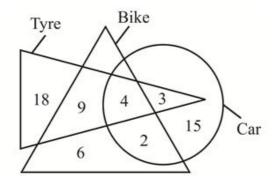
**X** 2. 83 – 121

**X** 3. 47 – 121

X 4. 53 - 88

Question ID: 27522812

### Q.3 How many tyre are bike and car both?



Ans

**X** 1. 7

**X** 2. 9

X 3 13

**4**.4

Q.4 In the following question, four letter pairs are given. The letters on left side of (-) is related to the letters on the right side of (-) with some Logic/Rule/Relation. Three are similar on basis of same Logic/Rule/Relation. Select the odd one out from the given alternatives. FRESHERS NOW Ans X 1. RF – TH 2. TL – VN 3. KP – MN 🗙 4. AJ – CL Question ID: 2752283 Q.5 In a certain code language, 'GRASP' is written as '11826920', 'MONT' is written as '7131214'. What is the code for 'TRIPY' in that code language? Ans X 1. 2118197 2. 2118917 3. 2111897 **X** 4. 21111897 Question ID: 2752286 Q.6 Shweta is facing towards north-east. She rotates by 45 degrees in anticlockwise direction. She again rotates by 135 degrees in clockwise direction. In which direction is she facing now? Ans X 1. West 2. South 3. South-east 4. South-west Question ID: 27522817 Q.7 In the following question, select the related letter pair from the given alternatives. GRDP: YLYM::? Ans X 1. STRV : BBZY X 2. MONT : CUVS 3. LNJP : YRUR X 4. TRAP : WIYZ Question ID: 2752285 Q.8 A group of four teachers is to be formed from amongst seven teachers T1, T2, T3, T4, T5, T6 and T7. Either T1 or T2 should be selected with T5. T4 and T7 cannot be selected together. Either T3 or T6 should be selected with T2. Either T7 or T5 should be selected with T6. Who among the following may be selected? Ans 1. T2, T4, T5 and T6 2. T1, T4, T5 and T7

3. T3, T1, T4 and T6

X 4. T2, T5, T6 and T7

Q.9	Price of five cars A, L, J, M and T are compared. Price of A is the lea have the same price. Price of J is less than T, L and M. Price of neith highest. Price of T is less than L. Price of how many cars is less tha	er T nor L is the	
Ans	<b>X</b> 1.4		SHERS NOW
	<b>X</b> 2. 2		
	<b>X</b> 3.1		
	<b>√</b> 4. 3		
	· ·		l
		Question ID : 2752287	
Q.10	Identify the letter-cluster that does NOT belong to the following seri	es.	
	BCDE, CEGI, DGIM, EIMQ, FKPU		
Ans	X 1. CEGI		
	✓ 2. DGIM		
	X 3. EIMQ		
	X 4. FKPU		
			-
		Question ID : 27522815	
Q.11	A series is given with one term wrong. Select that wrong term from alternatives.	the given	
	MORL, PKNI, SGJF, VCEC, YYBZ		
Ans	X 1. MORL		
	✓ 2. VCEC		
	<b>X</b> 3. YYBZ		
	X 4. SGJF		
			l
		Question ID : 2752282	
Q.12	Arrange the given words in the sequence in which they occur in the	dictionary.	
	1. Creedal		
	2. Cremini 3. Cremate		
	4. Creator 5. Crested		
Ans	X 1. 41352		
	× 2. 43125		
	X 3. 43152		
	<b>√</b> 4. 41325		
		Question ID : 2752281	
_			
	If 49 @ 13 # 26 = 98 and 57 # 13 @ 247 = 3, then 46 @ 23 # 3 = ?		
Ans	<b>X</b> 1. 12		
	<b>★</b> 2.8		
	<b>X</b> 3. 26		
	<b>√</b> 4. 6		
		Question ID : 27522813	

Q.14 A piece of paper is folded and punched as shown below in the question figures. From the given answer figures, indicate how it will appear when opened?







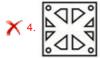


Ans









Question ID: 27522819

Q.15 Two figures given on the left side of (::) are related with some logic/rule/relation. Select the missing figure on the right of (::) from the given alternatives based on the same logic/rule/relation.









Ans

















Question ID : 27522818

Q.16 Poonam walks 20 km towards north. She turns right and walks 12 km. She turns left and walks 24 km. She turns right and walks 36 km. She finally rotates by an angle of 90 degrees in clockwise direction and walks 24 km. How far and in which direction is her starting point from the finishing point?

Ans

🗡 1. 52 km, North-east

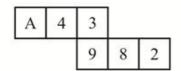
X 2. 46 km, North-east

3. 52 km, South-west

X 4. 46 km, South-west

Q.17 By folding the given paper, which of the following cube(s) cannot be made?













Ans



X 2. II and III

X 3. I, II and III

X 4. Only III

Question ID: 27522820

Q.18 In the following question below are given some statements followed by some conclusions based on those statements. Taking the given statements to be true even if they seem to be at variance from commonly known facts. Read all the conclusions and then decide which of the given conclusion logically follows the given statements.

### Statements:

- I. All cat are beautiful.
- II. No peacock is cat.

### Conclusions:

- I. All beautiful are cat.
- II. All peacock are beautiful.
- III. All cat are peacock.

Ans

- X 1. All conclusion follows
- X 2. Both conclusions II and III follows
- 3. Neither conclusion follows
- X 4. Only conclusion I follows

Question ID: 27522811

Q.19 In the following question below are given some statements followed by some conclusions based on those statements. Taking the given statements to be true even if they seem to be at variance from commonly known facts. Read all the conclusions and then decide which of the given conclusion logically follows the given statements.

### Statements:

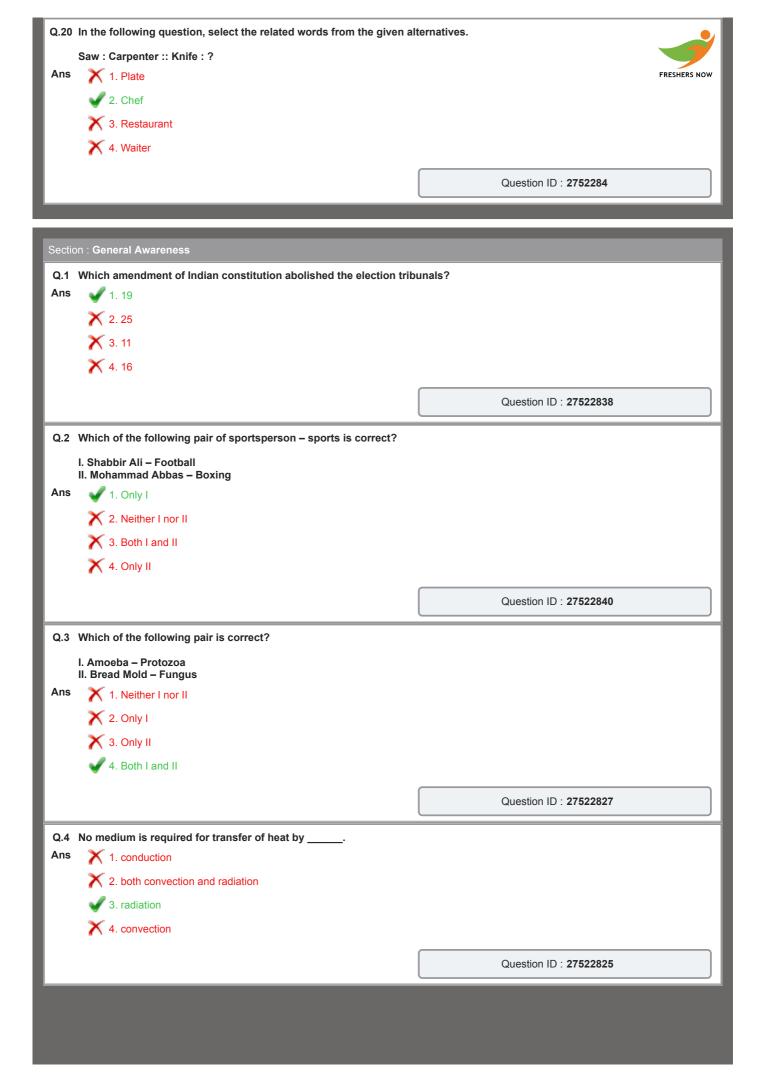
- I. Some W are K.
- II. No J are W.

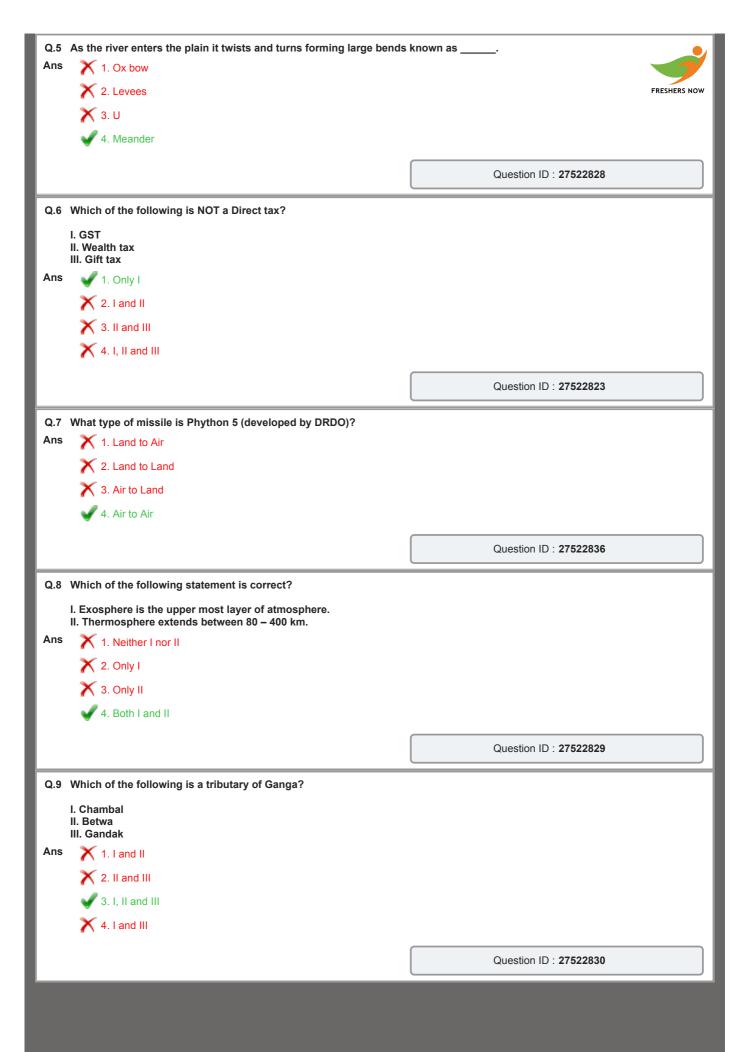
### Conclusions:

- I. Some J are W.
- II. Some K are not J.

Ans

- 1. Neither conclusion follows
- 2. Only conclusion II follows
- X 3. Both conclusions I and II follows
- X 4. Only conclusion I follows





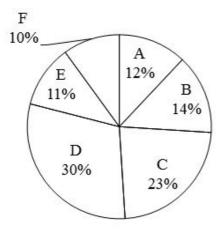
# Q.10 Which of the following statement(s) is/are NOT true regarding Marginal Standing Facility (MSF)? I. The MSF rate plays no role in determining the corridor for the daily movement in the FRESHERS NOW weighted average call money rate. II. MSF rate has no effect on policy repo rate. Ans X 1. Only II X 2. Only I 3. Both I and II X 4. Neither I nor II Question ID: 27522824 Q.11 Which of the following monument(s) is/are located in Gujarat? I. Dhoraji fort II. Zinzuwada fort Ans X 1. Only II 2. Both I and II X 3. Neither I nor II X 4. Only I Question ID: 27522822 Q.12 Who was written the book "What Went Wrong and Why"? X 1. MJ Akbar 2. Shashi Tharoor 3. Jaswant Singh 4. Kiran Bedi Question ID: 27522835 Q.13 ruled in Delhi during 1206-1210. Ans X 1. Shamsuddin Iltutmish 2. Qutbuddin Aybak X 3. Raziyya X 4. Anangapal Question ID: 27522833 Q.14 Which of the following is an equation of uniform acceleration? 1. v = u + at X 2. va = ut 🗙 3. v = ut + a X 4. v + u = at Question ID: 27522826

Q.15	6 Which article of Indian constitution is related with bar to interference by courts in electoral matter?	
Ans	1. 312	
	× 2.335	FRESHERS NOW
	<b>X</b> 3. 341	
	✓ 4. 329	
		Question ID : 27522837
Q.16	Which of the following statement(s) is/are correct?	
	I. The Nawab of Awadh was forced to give over half of his territory to	the Company in
	1807. II. Third Anglo-Maratha war was fought during 1817-19.	
Ans	1. Both I and II	
	× 2. Only I	
	√ 3. Only II	
	X 4. Neither I nor II	
		Question ID : 27522832
<u> </u>		Quodion is . 21 022002
	Mohiniattam belongs to which state?	
Ans	X 1. Telangana	
	× 2. Goa	
	X 3. Odisha	
	√ 4. Kerala	
		Question ID : 27522821
<u> </u>		
	Where did the inscriptions were written?	
Ans	X 1. Cloth	
	2. Stone	
	X 3. Paper	
	X 4. Palm leaf	
		Question ID : 27522831
<u> </u>		
	Who has been named ICC Men's player of the month for March 2021	?
Ans	1. Rishabh Pant	
	2. Bhuvaneshwar Kumar	
	3. Rohit Sharma	
	X 4. Virat Kohli	
		Question ID : 27522834
H		
Q.20 Ans	Who won the ICC Under19 World Cup 2020?  1. Australia	
1	2. Bangladesh	
	2. Bangladesh  3. England	
	X 4. India	
	4. India	
		Question ID : 27522839

# Section : Arithmetic Ability FRESHERS NOW Q.1 If P:Q=3:2, then what is the value of (P+Q):(P-Q)? Ans X 1.6:1 2.4:1 **3**. 5 : 1 **X** 4.4:5 Question ID: 27522850 Q.2 A sum becomes Rs. 16000 in 6 years on simple interest at the rate of 25 percent per annum. What is the total interest for the 6 years? Ans X 1. Rs. 8400 2. Rs. 9000 3. Rs. 6000 4. Rs. 9600 Question ID: 27522852 Q.3 What is the product of Least Common Multiple and Highest Common Factor of 3200 and 1250? $\times$ 1. 2<sup>5</sup> × 5<sup>3</sup> Ans $\times$ 2. $2^1 \times 5^2$ $\times$ 3. $2^8 \times 5^4$ $\checkmark$ 4. $2^8 \times 5^6$ Question ID: 27522843 Q.4 If K percent of K percent of 4000 = 90, then what is the value of K? Ans X 3. 22.5 *4*. 15 Question ID: 27522847 Q.5 A bag contains 1 rupee, 50 paise and 25 paise coins. The value of 1 rupee, 50 paise and 25 paise coins are in the ratio of 5:2:3 respectively. If total number of coins is 420, then what will be the total value of all coins? Ans X 1. Rs. 160 2. Rs. 180 X 3. Rs. 220 4. Rs. 200 Question ID: 27522851

Q.6 The pie chart given below shows the amount spent by a family on 6 articles. Amount spent on a particular article is shown as a percentage amount spent on all these 6 articles.





Which of the following statement(s) is/are correct?

I. Total central angle formed by the sectors of A and C is 126 degrees.

II. If the amount spent on E is 13200, then the total amount spent on B and F is 28800.

Ans

1. Both I and II

X 2. Neither I nor II

X 3. Only I

X 4. Only II

Question ID: 27522858

Q.7 An article is sold for Rs. 3000 at a loss of 25 percent. What should be the selling price to gain 15 percent?

Ans

**1**. 4600

**X** 2. 4400

**X** 3. 5000

**X** 4. 4100

Question ID: 27522849

Q.8 If 1N3N is a four digit number and it is divisible by 11, then what is the value of N?

Ans

< 1 0

X 2. 5

X 3.9

1 4 2

Question ID: 27522842

Q.9 Surface area of a sphere is 5544 cm<sup>2</sup>. What will be the diameter of sphere?

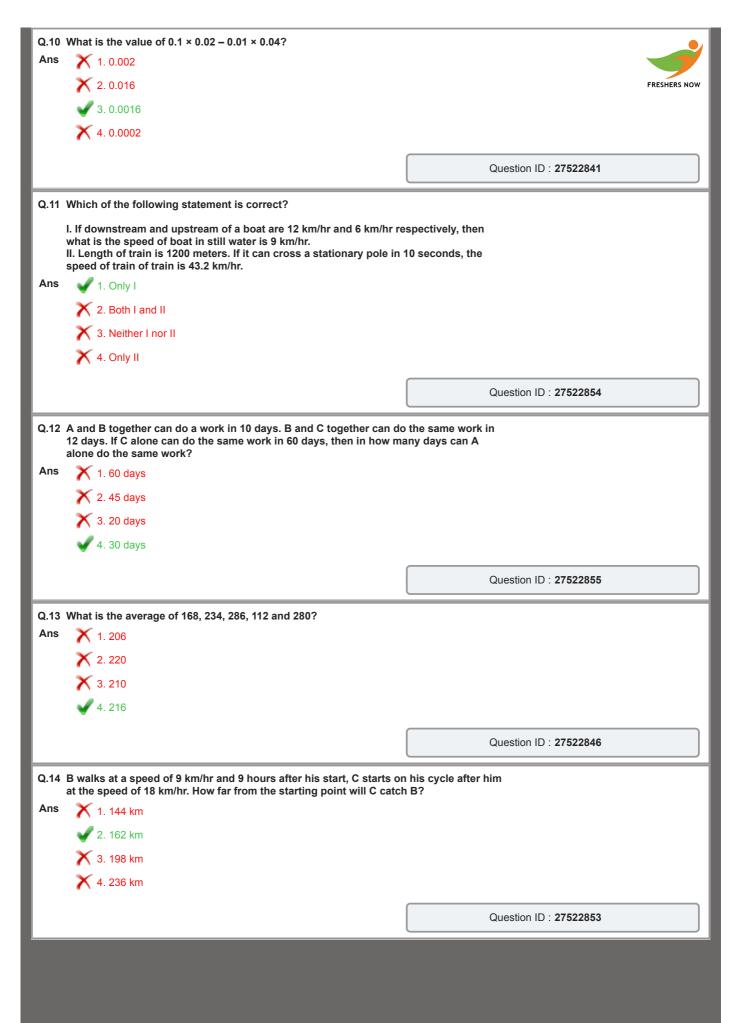
Ans

X 1. 21 cm

2. 42 cm

X 3. 28 cm

X 4. 35 cm





Ans

- $\times$  1.  $\frac{6}{13}$
- $\times$  2.  $\frac{3}{4}$
- × 3.  $\frac{4}{5}$
- **√** 4.  $\frac{5}{12}$

Question ID: 27522845

Q.16 Length, breadth and height of a cuboid are 30 cm, 30 cm and 15 cm respectively. What is the length of longest rod that can be placed in cuboid?

Ans

- X 1. 55 cm
- 2 45 cm
- X 3. 60 cm
- X 4. 35 cm

Question ID: 27522857

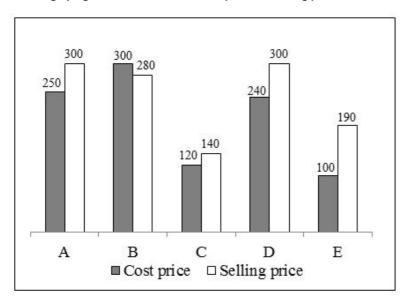
Q.17 If 87.5 percent of A = 714, then what is the value of 37.5 percent of A?

Ans

- 1. 312
- **2**. 306
- **X** 3. 302
- **X** 4. 300

### Q.18 The bar graph given below shows the cost price and selling price of 5 articles.





Profit amount = Selling price - Cost price
Loss amount = Cost price - Selling price
Profit percent/Loss percent = [(Profit/Loss)/Cost price] × 100
Which of the following statement(s) is/are not correct?

I. If the cost price of A and E gets interchanged, then there will be a loss of 24 percent on E.

II. Profit earned on D is 25 percent.

Ans

X 1. Only I

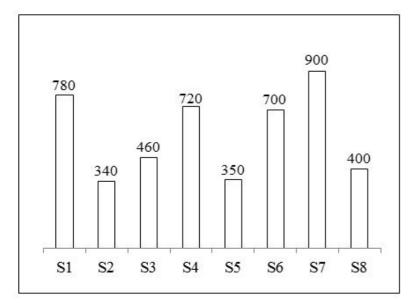
X 2. Both I and II

3. Neither I nor II

X 4. Only II

### Q.19 The bar graph given below shows the number of shoes in 8 shops.





R = Difference between the total number of shoes in S5 & S6 and the total number of shoes in S1 & S8.

T = Average number of shoes in S2, S4 and S5. What is the value of R + T?

Ans

Question ID: 27522859

Q.20 What is the value of  $\frac{3700 \div 24 \times 12 + 17 \times 5 \div 34}{2500 \div 625 + 22 \div 5 \times 40}$ ?

Ans

**√** 1. 
$$\frac{247}{24}$$

$$\times$$
 2.  $\frac{136}{12}$ 

$$\times$$
 3.  $\frac{157}{12}$ 

$$\times$$
 4.  $\frac{247}{12}$ 

Ans	Q.1	Select the most appropriate option to substitute the underlined segrentence. If no substitution is required, select No improvement.	ment in the given	***
Cuestion ID: 27522863  Q.2 A sentence has been given with a blank to be filled with an appropriate word/words. Choose the correct alternative.  ———————————————————————————————————	Δne			FRESHERS NOW
Question ID: 27522863  Q.2 A sentence has been given with a blank to be filled with an appropriate word/words. Choose the correct alternative.  — people face many issues with the advancement of technology.  Ans	Alls			
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Question ID : 27522863  Question ID : 27522863  Question ID : 27522863  Question ID : 27522863  Ans				
Q.2 A sentence has been given with a blank to be filled with an appropriate word/words. Choose the correct alternative.		4. No improvement		
Choose the correct alternative.  people face many issues with the advancement of technology.  Ans  1. Older  2. An old  3. Oldest  4. Old  Question ID: 27522866  Question ID: 27522869  Question ID: 27522868  Question ID: 27522868			Question ID : 27522863	
Ans    1. Older    2. An old    3. Oldest    4. Old    Question ID : 27522866  Question ID : 27522866  Question ID : 27522866  Question ID : 27522866  Question ID : 27522868  Ans    1. Valuable    2. Waste    3. Simple    4. Necessary    Question ID : 27522869  Question ID : 27522868  Ans    1. PSRQ    2. QRSP    3. PRSQ    4. QRPS  Question ID : 27522868  Question ID : 27522868  Question ID : 27522868	Q.2		ate word/words.	
X 2. An old X 3. Oldest X 4. Old  Question ID : 27522866  Q.3 Choose the word that means the same as the given word.  Precious Ans X 1. Valuable X 2. Waste X 3. Simple X 4. Necessary  Question ID : 27522869  Q.4 Rearrange the parts of the sentence in the correct order. P: the Reformation and the ensuing wars of religion through Q: based on contemporary political events R: gave rise to many propagnalistic and patriotic strips S: the 17th century, particularly in Protestant Germany and the Netherlands, Ans X 1. PSRQ X 2. QRSP X 3. PRSQ X 4. QRPS  Question ID : 27522868			ıy.	
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'No error'.  In the Mahabharata, even a distinguished (1)/ warrior like Arjuna became depressed (2)/ at the very thought of waging war (3)/. No error (4)  Ans			Question ID : 27522868	
(2)/ at the very thought of waging war (3)/. No error (4)  Ans  1. warrior like Arjuna became depressed  2. No error  3. at the very thought of waging war	Q.5		no error, choose	
2. No error  3. at the very thought of waging war		In the Mahabharata, even a distinguished (1)/ warrior like Arjuna bed (2)/ at the very thought of waging war (3)/. No error (4)	came depressed	
3. at the very thought of waging war	Ans	1. warrior like Arjuna became depressed		
		2. No error		
X 4. In the Mahabharata, even a distinguished		X 3. at the very thought of waging war		
• • • • • • • • • • • • • • • • • • • •		X 4. In the Mahabharata, even a distinguished		
Question ID : 27522862			Question ID : 27522862	

Q.6	Rearrange the parts of the sentence in correct order.	
	Two species P: Coffea Arabica and	
	Q: C. canephora, supply almost R: of the coffee plant,	FRESHERS NOW
Ans	S: all of the world's consumption	
Alla	X 1. RPSQ	
	X 2. QPSR X 3. QPRS	
	✓ 4. RPQS	
	4. KFQ3	
		Question ID : 27522867
Q.7	In the following question, out of the given four alternatives, select the which best expresses the meaning of the Idiom/Phrase.	e alternative
	To upset the apple cart	
Ans	X 1. To be extremely enthusiastic over	
	2. To throw all plans in confusion	
	X 3. To harass somebody	
	X 4. A clumsy person	
		Question ID : 27522874
Q.8	In the following question, out of the given four alternatives, select the which best expresses the meaning of the Idiom/Phrase.	e alternative
Ans	A bed of thorns	
Alls	1. To rain heavily	
	2. A very uncomfortable situation	
	3. Unexpected misfortune	
	4. To weep heavily, suddenly	
		Question ID : 27522873
Q.9	In the given question, four words are given out of which one word is	incorrectly spelt.
Ans	Choose the incorrectly spelt word.  1. Tampoline	
	× 2. Concussion	
	X 3. Creation	
	X 4. Mistaken	
		Question ID : 27522872
Q.10	A sentence has been given with a blank to be filled with an appropri-	ate word. Choose
Ans	He was sorry for his with the lady.  1. freak	
	2. misconduct	
	X 3. fortune	
	X 4. miscreant	
		Question ID : 27522865

Q.11 Find the part of the given sentence that has an error in it. If there is no error, choose 'No error'. Learning to identify birds (1)/ by their songs is so(2)/ much fun as spotting them by FRESHERS NOW sight (3)/.No error(4) X 1. No error 2. Learning to identify birds 3. much fun as spotting them by sight 4. by their songs is so Question ID: 27522861 Q.12 In the given question, four words are given out of which one word is correctly spelt. Choose the correctly spelt word. Ans 1. Retantion 2. Reteention 3. Reetention 4. Retention Question ID: 27522871 Q.13 Choose the word that is opposite in meaning to the given word. **Ascend** Ans X 1. Infamy X 2. Incline X 3. Upthurst 4. Plunge Question ID: 27522870 Q.14 Select the most appropriate option to substitute the underlined segment in the given sentence. If no substitution is required, select No improvement. The comfort the youngsters share with him will be an addition advantage. Ans 1. No Improvement 2. additional 3. bonus 4. added Question ID: 27522864 Q.15 Choose the word that can substitute the given sentence. A collection of poems Ans 1. Entomology 2. Palaeology 3. Ethology 4. Anthology Question ID: 27522875

Read the following information carefully and answer the given questions.



Bioluminescence, emission of light by an organism or by a laboratory biochemical system derived from an organism. It could be the ghostly glow of bacteria on decaying meat or fish, the shimmering radiance of protozoans in tropical seas, or the flickering signals of fireflies. The phenomenon occurs sporadically in a wide range of protists and animals, from bacteria and fungi to insects, marine invertebrates, and fish, but it is not known to exist naturally in true plants or in amphibians, reptiles, birds, or mammals.

Bioluminescence results from a chemical reaction (chemiluminescence) in which the conversion of chemical energy to radiant energy is direct and virtually 100 percent efficient; i.e., very little heat is given off in the process. For that reason, the emission is called cold light or luminescence.

The functional role of bioluminescence in lower organisms such as bacteria, dinoflagellates, and fungi is difficult to discern. Partly because the glow of luminous bacteria is extinguished when oxygen is removed, it has been suggested that the bioluminescent reaction was originally used to remove oxygen toxic to primitive types of bacteria that developed when oxygen was absent or very rare in Earth's atmosphere. The metabolic reaction that combines the oxygen with a reducing substance (luciferin) liberates sufficient energy to excite a molecule in the organism to emit visible radiation. Most of those luminous primitive organisms subsequently developed systems of using oxygen, but they have retained the luminescent capability as parts of related metabolic pathways or for some survival value that luminescence may confer on the organism.

SubQuestion No: 16

Q.16 What can be the suitable title for the passage?

Ans

X 1. Why Bioluminescence?

**2** 

2. What is Bioluminescence?

×

3. Role of bioluminescence

X

4. Organisms and their light

Question ID: 27522877

### Comprehension:

Read the following information carefully and answer the given questions.

Bioluminescence, emission of light by an organism or by a laboratory biochemical system derived from an organism. It could be the ghostly glow of bacteria on decaying meat or fish, the shimmering radiance of protozoans in tropical seas, or the flickering signals of fireflies. The phenomenon occurs sporadically in a wide range of protists and animals, from bacteria and fungi to insects, marine invertebrates, and fish, but it is not known to exist naturally in true plants or in amphibians, reptiles, birds, or mammals.

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SubQuestion No: 17

Q.17 Which process is responsible for the emission of bioluminescence?

Ans

1. Conversion of chemical energy to radiant energy directly with a release of a very little heat.

2. Conversion of radiant energy to chemical energy directly and virtually.

X 3. Conversion of radiant energy to chemical energy indirectly with a little heat release.

X 4. Conversion of chemical energy to radiant energy indirectly with a lots of heat release.

Read the following information carefully and answer the given questions.



Bioluminescence, emission of light by an organism or by a laboratory biochemical system derived from an organism. It could be the ghostly glow of bacteria on decaying meat or fish, the shimmering radiance of protozoans in tropical seas, or the flickering signals of fireflies. The phenomenon occurs sporadically in a wide range of protists and animals, from bacteria and fungi to insects, marine invertebrates, and fish, but it is not known to exist naturally in true plants or in amphibians, reptiles, birds, or mammals.

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SubQuestion No: 18

Q.18 Which of the following words best expresses the true meaning of the word 'confer'?

Ans

X 1. Hold

X 2. Refuse

3. Consult

X 4. Withhold

Question ID: 27522879

### Comprehension:

Read the following information carefully and answer the given questions.

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SubQuestion No: 19

Q.19 In which living entity, the bioluminescence is not known to exist?

Ans

💢 1. Bacteria

2. Birds

X 3. Fungi

X 4. Fish

Read the following information carefully and answer the given questions.



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### SubQuestion No: 20

Q.20 Why the functional role of bioluminescence in lower organisms is difficult to recognize?

Ans

1. The glow of bacteria blows out as soon as the oxygen is removed.

2. Their luminescent capability wears off in the presence of oxygen.

3. When oxygen is removed the bacteria is 17unable to survive.

4. Bacteria couldn't find the sufficient energy in the absence of oxygen.

Question ID: 27522878

Q.1 'बिलाव' का स्त्रीलिंग होगा?

Ans

🗶 1. बिली

2. बिलावी

🗸 ३. बिल्ला

4. बिल्ली

Question ID: 27522889

Q.2 निम्नलिखित प्रश्न में, दिए गए चार विकल्पों में से, उस विकल्प का चयन करें जो दिए गए मुहावरे के अर्थ को सर्वश्रेष्ठ रूप से व्यक्त करता है।

अग्नि परीक्षा देना

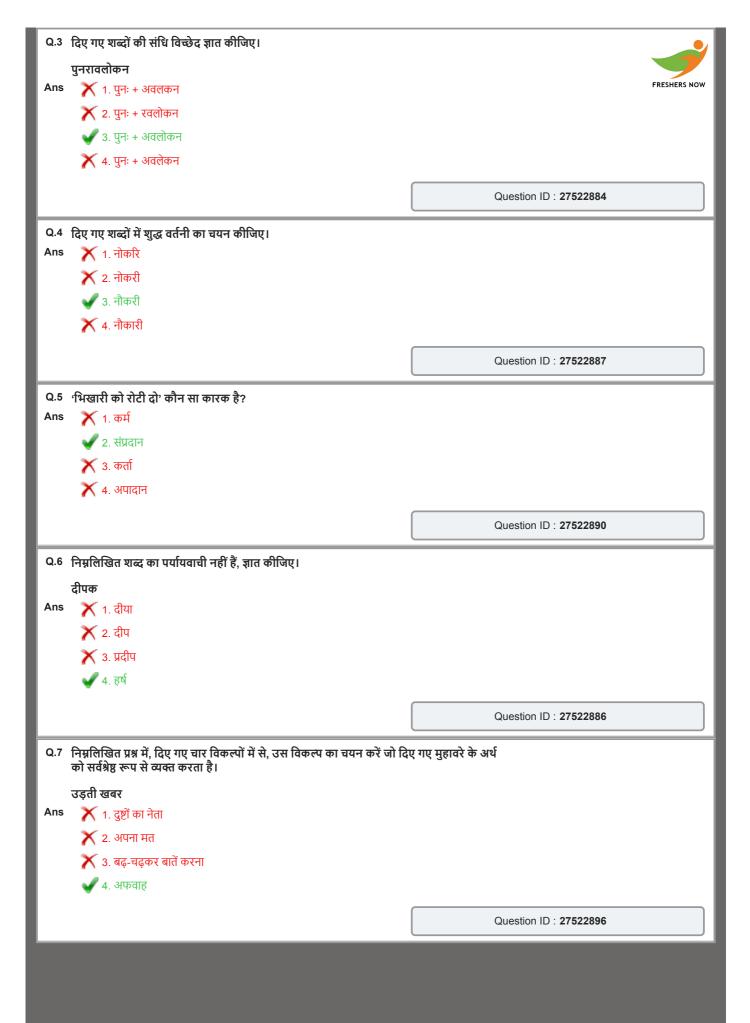
Ans

💜 1. कठिन जाँच

🗶 २. क्रोधित होना

🗙 ३. परिश्रम करना

🗶 ४. शांत करना



Q.8	दिए गए वाक्य में उपयुक्त विराम चिह्न का चयन कीजिए।	
	मेरी अध्यापिका ने बीएड किया हुआ है।	
Ans	🗸 १. लाघव	FRESHERS NOW
	🗶 २. कोष्ठक	
	🗙 ३. योजक	
	🗶 ४. निर्देशक	
		Question ID : 27522894
		Question ID . 21322054
	निम्नलिखित वाक्यों में से शुद्ध वाक्य का चयन कीजिए।	
Ans	🗸 1. वह भूख से तड़प रहा है।	
	🔀 2. वह भुक में तड़प रहा है।	
	🗙 3. वह भूख में तड़प रहा है।	
	🗙 ४. वो भूख में तड़प रहा है।	
		Question ID : 27522891
Q.10	दिए गए शब्द का उपसर्ग ज्ञात कीजिए।	
	दुबला	
Ans	🗸 1. दु	
	🗶 2. दब	
	🗙 3. ला	
	🗶 ४. दुब	
		Question ID : 27522882
		Question ID . 21322002
Q.11	दिए गए शब्द का प्रत्यय ज्ञात कीजिए।	
	तैराक	
Ans	🗙 1. राक	
	🗸 2. आक	
	🗙 ३. अक	
	<b>X</b> 4. तै	
		Question ID : 27522883
		QUESTION ID . 2/322063
Q.12	निम्नलिखित वाक्यों में से सरल वाक्य ज्ञात कीजिए।	
Ans	🗶 1. जैसे ही बच्चे ने पानी बरसता हुआ देखा वैसे ही एक मकान में शरण ली।	
	🔀 2. बच्चे ने मकान में शरण ली क्योंकि वहाँ पानी बरस रहा था।	
	🗹 3. पानी बरसता हुआ देखकर बच्चे ने एक मकान में शरण ली।	
	🗶 ४. बच्चे ने पानी बरसता हुआ देखा और एक मकान में शरण ली।	
		Ougstion ID : 27522902
		Question ID : 27522892

# Q.13 दिए गए वाक्यांश के लिए उचित शब्द का चयन कीजिए। जिसके समान कोई दूसरा न हो। FRESHERS NOW Ans 🗶 1. अकल्पनीय 2. अद्वितीय 3. द्वितीय 🗶 ४. चमत्कारी Question ID: 27522885 Q.14 दिए गए वाक्य में उपयक्त विराम चिह्न का चयन कीजिए। वह कौन सी पुस्तक है जो आपको बहुत पसंद है Ans Question ID: 27522893 Q.15 दिए गए शब्द युग्म का सही शब्द युग्म ज्ञात कीजिए। अहम् : अहम Ans 🗹 1. अहंकार : महत्वपूर्ण 🗶 2. ढेर : आकर X ३. अहंकार : ढेर 🗶 ४. महत्वपूर्ण : आकर Question ID: 27522888 Comprehension: एक गद्यांश दिया गया है। गद्यांश के आधार पर पाँच प्रश्न दिए गए हैं। गद्यांश को ध्यानपूर्वक पढ़ें तथा प्रत्येक प्रश्न में चार विकल्पों में से सही विकल्प चुने। हमारे देश में अनेक जटिल समस्याएँ हैं जो देश के विकास में अवरोध उत्पन्न करती हैं। जनसंख्या वृद्धि भी देश की इन्हीं जटिल समस्याओं में से एक है। संपूर्ण विश्व में चीन के पश्चात् भारत सबसे अधिक जनसंख्या वाला देश है। पंरतु जिस गति से हमारे देश की जनसंख्या बढ़ रही है, वो दिन भी दूर नहीं जब हमारे देश की जनसंख्या चीन से भी अधिक हो जाएगी। हमारी जनसंख्या वृद्धि की दर का इसी से अनुमान लगाया जा सकता है कि स्वतंत्रता प्राप्ति के पश्चात् मात्र पाँच दशकों में यह 33 करोड़ से 100 करोड़ के आँकड़े को पार कर गई है। देश में जनसंख्या वृद्धि के अनेकों कारण हैं। इसके अतिरिक्त निर्धनता, अशिक्षा, रूदिवादिता तथा संकीर्ण विचार आदि जनसंख्या वृद्धि के प्रमुख कारण हैं। देश में बाल-विवाह की पंरपरा प्राचीन काल से थी, जिसके फलस्वरूप भी जनसंख्या में वृद्धि हुई थी। शिक्षा का अभाव भी जनसंख्या वृद्धि का एक प्रमुख कारण हैं। देश में जनसंख्या वृद्धि की समस्या आज अत्यंत भयावह स्थिति में है जिसके फलस्वरूप देश को अनेक प्रकार की कठिनाईयों का सामना करना पड़ रहा है। देश में उपलब्ध संसाधनों की तुलना में जनसंख्या अधिक होने का दुष्परिणाम यह है कि स्वतंत्रता के पाँच दशकों बाद भी लगभग 40 प्रतिशत जनसंख्या गरीबी रेखा के नीचे जीवन-यापन कर रही है। इन लोगों को अपनी आम भौतिक आवश्यकताओं की पूर्ति के लिए भी संघर्ष करना पड़ रहा है। देश में बहुत से बच्चे कुपोषण के शिकार हैं जिससे अनुमान लगाया जा सकता है कि एक स्वस्थ भारत की परिकल्पना को साकार रूप देना कितना दुष्कर कार्य है। SubQuestion No: 16 Q.16 किसका अभाव जनसंख्या वृद्धि का प्रमुख कारण माना गया है? 1. भूखमरी 2. स्वस्थ 🗶 ३. कृपोषण 🖊 ४. अशिक्षा

एक गद्यांश दिया गया है। गद्यांश के आधार पर पाँच प्रश्न दिए गए हैं। गद्यांश को ध्यानपूर्वक पढ़ें तथा प्रत्येक प्रश्न में चार विकल्पों में से सही विकल्प चुने।



हमारे देश में अनेक जटिल समस्याएँ हैं जो देश के विकास में अवरोध उत्पन्न करती हैं। जनसंख्या वृद्धि भी देश की इन्हीं जटिल समस्याओं में से एक है। संपूर्ण विश्व में चीन के पश्चात् भारत सबसे अधिक जनसंख्या वाला देश है। पंरतु जिस गित से हमारे देश की जनसंख्या बढ़ रही है, वो दिन भी दूर नहीं जब हमारे देश की जनसंख्या चीन से भी अधिक हो जाएगी। हमारी जनसंख्या वृद्धि की दर का इसी से अनुमान लगाया जा सकता है कि स्वतंत्रता प्राप्ति के पश्चात् मात्र पाँच दशकों में यह 33 करोड़ से 100 करोड़ के आँकड़े को पार कर गई है। देश में जनसंख्या वृद्धि के अनेकों कारण हैं। इसके अतिरिक्त निर्धनता, अशिक्षा, रूढ़िवादिता तथा संकीर्ण विचार आदि जनसंख्या वृद्धि के प्रमुख कारण हैं। देश में बाल-विवाह की पंरपरा प्राचीन काल से थी, जिसके फलस्वरूप भी जनसंख्या में वृद्धि हुई थी। शिक्षा का अभाव भी जनसंख्या वृद्धि का एक प्रमुख कारण हैं। देश में जनसंख्या वृद्धि की समस्या आज अत्यंत भयावह स्थिति में है जिसके फलस्वरूप देश को अनेक प्रकार की कठिनाईयों का सामना करना पड़ रहा है। देश में उपलब्ध संसाधनों की तुलना में जनसंख्या अधिक होने का दुष्परिणाम यह है कि स्वतंत्रता के पाँच दशकों बाद भी लगभग 40 प्रतिशत जनसंख्या गरीबी रेखा के नीचे जीवन-यापन कर रही है। इन लोगों को अपनी आम भौतिक आवश्यकताओं की पूर्ति के लिए भी संघर्ष करना पड़ रहा है। देश में बहुत से बच्चे कुपोषण के शिकार हैं जिससे अनुमान लगाया जा सकता है कि एक स्वस्थ भारत की परिकल्पना को साकार रूप देना कितना दुष्कर कार्य है।

SubQuestion No: 17

Q.17 उपर्युक्त गद्यांश का उपयुक्त शीर्षक क्या होगा?

Ans

X 1. जनसंख्या वृद्धि : एक लाभ

🗹 २. जनसंख्या वृद्धि : एक जटिल समस्या

X ३. जनसंख्या वृद्धि : भौतिक आवश्यकताओं की पूर्ति

X ४. जनसंख्या वृद्धि : शिक्षा का आभाव

Question ID: 275228102

### Comprehension:

एक गद्यांश दिया गया है। गद्यांश के आधार पर पाँच प्रश्न दिए गए हैं। गद्यांश को ध्यानपूर्वक पढ़ें तथा प्रत्येक प्रश्न में चार विकल्पों में से सही विकल्प चुने।

हमारे देश में अनेक जटिल समस्याएँ हैं जो देश के विकास में अवरोध उत्पन्न करती हैं। जनसंख्या वृद्धि भी देश की इन्हीं जटिल समस्याओं में से एक है। संपूर्ण विश्व में चीन के पश्चात् भारत सबसे अधिक जनसंख्या वाला देश है। पंरतु जिस गित से हमारे देश की जनसंख्या बढ़ रही है, वो दिन भी दूर नहीं जब हमारे देश की जनसंख्या चीन से भी अधिक हो जाएगी। हमारी जनसंख्या वृद्धि की दर का इसी से अनुमान लगाया जा सकता है कि स्वतंत्रता प्राप्ति के पश्चात् मात्र पाँच दशकों में यह 33 करोड़ से 100 करोड़ के आँकड़े को पार कर गई है। देश में जनसंख्या वृद्धि के अनेकों कारण हैं। इसके अतिरिक्त निर्धनता, अशिक्षा, रूढ़िवादिता तथा संकीर्ण विचार आदि जनसंख्या वृद्धि के प्रमुख कारण हैं। देश में बाल-विवाह की पंरपरा प्राचीन काल से थी, जिसके फलस्वरूप भी जनसंख्या में वृद्धि हुई थी। शिक्षा का अभाव भी जनसंख्या वृद्धि का एक प्रमुख कारण हैं। देश में जनसंख्या वृद्धि की समस्या आज अत्यंत भयावह स्थिति में है जिसके फलस्वरूप देश को अनेक प्रकार की कठिनाईयों का सामना करना पड़ रहा है। देश में उपलब्ध संसाधनों की तुलना में जनसंख्या अधिक होने का दुष्परिणाम यह है कि स्वतंत्रता के पाँच दशकों बाद भी लगभग 40 प्रतिशत जनसंख्या गरीबी रेखा के नीचे जीवन-यापन कर रही है। इन लोगों को अपनी आम भौतिक आवश्यकताओं की पूर्ति के लिए भी संघर्ष करना पड़ रहा है। देश में बहुत से बच्चे कुपोषण के शिकार हैं जिससे अनुमान लगाया जा सकता है कि एक स्वस्थ भारत की परिकल्पना को साकार रूप देना कितना दृष्कर कार्य है।

SubQuestion No : 18

Q.18 संपूर्ण विश्व में किस देश की सर्वाधिक जनसंख्या है?

Ans

🗶 १. जापान

2. फ्रांस

X ३. भारत

💞 4. चीन

एक गद्यांश दिया गया है। गद्यांश के आधार पर पाँच प्रश्न दिए गए हैं। गद्यांश को ध्यानपूर्वक पढ़ें तथा प्रत्येक प्रश्न में चार विकल्पों में से सही विकल्प चुने।



हमारे देश में अनेक जिंटल समस्याएँ हैं जो देश के विकास में अवरोध उत्पन्न करती हैं। जनसंख्या वृद्धि भी देश की इन्हीं जिंटल समस्याओं में से एक है। संपूर्ण विश्व में चीन के पश्चात् भारत सबसे अधिक जनसंख्या वाला देश है। पंरतु जिस गित से हमारे देश की जनसंख्या बढ़ रही है, वो दिन भी दूर नहीं जब हमारे देश की जनसंख्या चीन से भी अधिक हो जाएगी। हमारी जनसंख्या वृद्धि की दर का इसी से अनुमान लगाया जा सकता है कि स्वतंत्रता प्राप्ति के पश्चात् मात्र पाँच दशकों में यह 33 करोड़ से 100 करोड़ के आँकड़े को पार कर गई है। देश में जनसंख्या वृद्धि के अनेकों कारण हैं। इसके अतिरिक्त निर्धनता, अशिक्षा, रूढ़िवादिता तथा संकीर्ण विचार आदि जनसंख्या वृद्धि के प्रमुख कारण हैं। देश में बाल-विवाह की पंरपरा प्राचीन काल से थी, जिसके फलस्वरूप भी जनसंख्या में वृद्धि हुई थी। शिक्षा का अभाव भी जनसंख्या वृद्धि का एक प्रमुख कारण हैं। देश में जनसंख्या वृद्धि की समस्या आज अत्यंत भयावह स्थिति में है जिसके फलस्वरूप देश को अनेक प्रकार की किठनाईयों का सामना करना पड़ रहा है। देश में उपलब्ध संसाधनों की तुलना में जनसंख्या अधिक होने का दुष्यरिणाम यह है कि स्वतंत्रता के पाँच दशकों बाद भी लगभग 40 प्रतिशत जनसंख्या गरीबी रेखा के नीचे जीवन-यापन कर रही है। इन लोगों को अपनी आम भौतिक आवश्यकताओं की पूर्ति के लिए भी संघर्ष करना पड़ रहा है। देश में बहुत से बच्चे कुपोषण के शिकार हैं जिससे अनुमान लगाया जा सकता है कि एक स्वस्थ भारत की परिकल्पना को साकार रूप देना कितना दुष्कर कार्य है।

SubQuestion No: 19

Q.19 कितनी प्रतिशत जनसंख्या गरीबी रेखा के नीचे जीवन-यापन कर रही है?

Ans

**X** 1. 30

2. 60

**X** 3. 50

4.40

Question ID: 275228100

### Comprehension:

एक गद्यांश दिया गया है। गद्यांश के आधार पर पाँच प्रश्न दिए गए हैं। गद्यांश को ध्यानपूर्वक पढ़ें तथा प्रत्येक प्रश्न में चार विकल्पों में से सही विकल्प चुने।

हमारे देश में अनेक जटिल समस्याएँ हैं जो देश के विकास में अवरोध उत्पन्न करती हैं। जनसंख्या वृद्धि भी देश की इन्हीं जटिल समस्याओं में से एक है। संपूर्ण विश्व में चीन के पश्चात् भारत सबसे अधिक जनसंख्या वाला देश है। पंरतु जिस गित से हमारे देश की जनसंख्या बढ़ रही है, वो दिन भी दूर नहीं जब हमारे देश की जनसंख्या चीन से भी अधिक हो जाएगी। हमारी जनसंख्या वृद्धि की दर का इसी से अनुमान लगाया जा सकता है कि स्वतंत्रता प्राप्ति के पश्चात् मात्र पाँच दशकों में यह 33 करोड़ से 100 करोड़ के आँकड़े को पार कर गई है। देश में जनसंख्या वृद्धि के अनेकों कारण हैं। इसके अतिरिक्त निर्धनता, अशिक्षा, रूढ़िवादिता तथा संकीर्ण विचार आदि जनसंख्या वृद्धि के प्रमुख कारण हैं। देश में बाल-विवाह की पंरपरा प्राचीन काल से थी, जिसके फलस्वरूप भी जनसंख्या में वृद्धि हुई थी। शिक्षा का अभाव भी जनसंख्या वृद्धि का एक प्रमुख कारण हैं। देश में जनसंख्या वृद्धि की समस्या आज अत्यंत भयावह स्थिति में है जिसके फलस्वरूप देश को अनेक प्रकार की कठिनाईयों का सामना करना पड़ रहा है। देश में उपलब्ध संसाधनों की तुलना में जनसंख्या अधिक होने का दुष्परिणाम यह है कि स्वतंत्रता के पाँच दशकों बाद भी लगभग 40 प्रतिशत जनसंख्या गरीबी रेखा के नीचे जीवन-यापन कर रही है। इन लोगों को अपनी आम भौतिक आवश्यकताओं की पूर्ति के लिए भी संघर्ष करना पड़ रहा है। देश में बहुत से बच्चे कुपोषण के शिकार हैं जिससे अनुमान लगाया जा सकता है कि एक स्वस्थ भारत की परिकल्पना को साकार रूप देना कितना दुष्कर कार्य है।

SubQuestion No : 20

Q.20 हमारे देश की जटिल समस्या क्या है, जो देश के विकास में अवरोध उत्पन्न करती है?

Ans

🗙 १. संघर

🖋 २. जनसंख्या

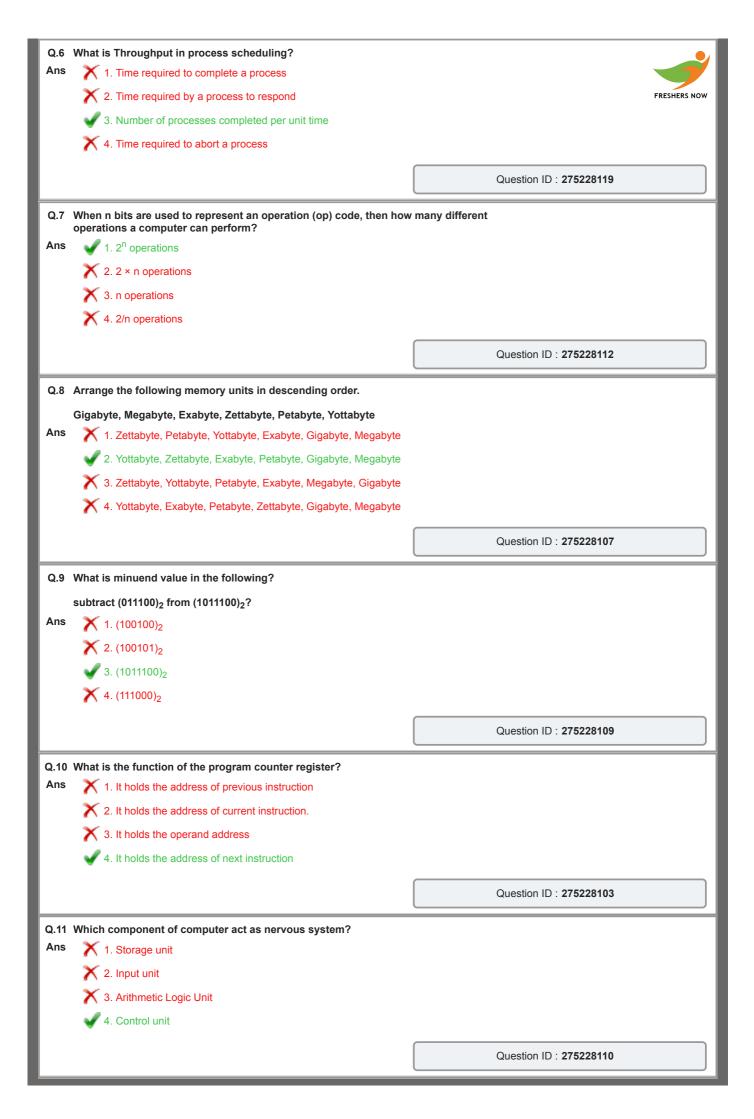
X ३. गरीबी

\chi 4. शिक्षा

Question ID : 27522898

Section : Discipline1

Ans 1. 1111111111100100  X 2. 1000000000011100  X 3. 1111111111100011  X 4. 1111111111100101  Question ID: 275228115	HERS NOW			
X 3. 1111111111100011 X 4. 111111111100101	HERS NOW			
<b>X</b> 4. 111111111100101				
Question ID : 275228115				
Q.2 Match the following.				
i. Batch Processing System A Meeting time constraint				
ii. Multi programming B Good response time				
iii. Time sharing C Resource utilization				
iv Real time D CPU idle time				
Ans 1. i – B, ii – C, iii, D, iv – A				
✓ 2. i – D, ii – C, iii, B, iv – A				
<b>X</b> 3. i − A, ii − B, iii, C, iv − D				
<b>X</b> 4. i − D, ii − A, iii, B, iv − C				
Question ID : 275228118				
Q.3 Information about each process in operating system is maintained by				
Ans 1. process control block				
X 2. scheduler				
X 3. Central Processing Unit				
X 4. Program Counter				
Question ID : 275228117				
Q.4 Which component of the computer is used to resolve the difference between CPU and the peripheral device?				
Ans 1. Arithmetic Logic Unit				
X 2. Control unit				
3. Interface unit				
X 4. Memory unit				
Question ID : 275228104				
Q.5 Which translator is used to convert assembly language to machine language?				
Ans X 1. Compiler				
× 2. Interpreter				
3. Assembler				
X 4. Linker				
Question ID : 275228111				



### Q.12 What is the function of data input command in I/O command?

X 1. It cause the interface to respond by transferring data from bus into one of its registers



2. To check status conditions in the interface and the peripheral

√ 3. It cause the interface to respond by transferring data from one of its register to bus

X 4. Activate the peripheral and to inform it what to do

Question ID: 275228105

### Q.13 Which one of these is not a condition for Resource Deadlock?

Ans

X 1. Circular waits



2. Preemption



X 3. Non-sharable resources



X 4. Hold-and-wait

Question ID: 275228121

### Q.14 What is the value of $(3564)_8 + (323232)_4$ .

Ans

X 1. (1762)<sub>16</sub>



× 2. (1562)<sub>16</sub>



X 3. (1E62)<sub>16</sub>

Question ID: 275228114

### Q.15 How many 16 K $\times$ 1 bit RAM chips are needed to provide a memory capacity of 128 K $\times$ 1 byte?

Ans

**X** 1. 32



4.64

Question ID: 275228108

### Q.16 Match the following.

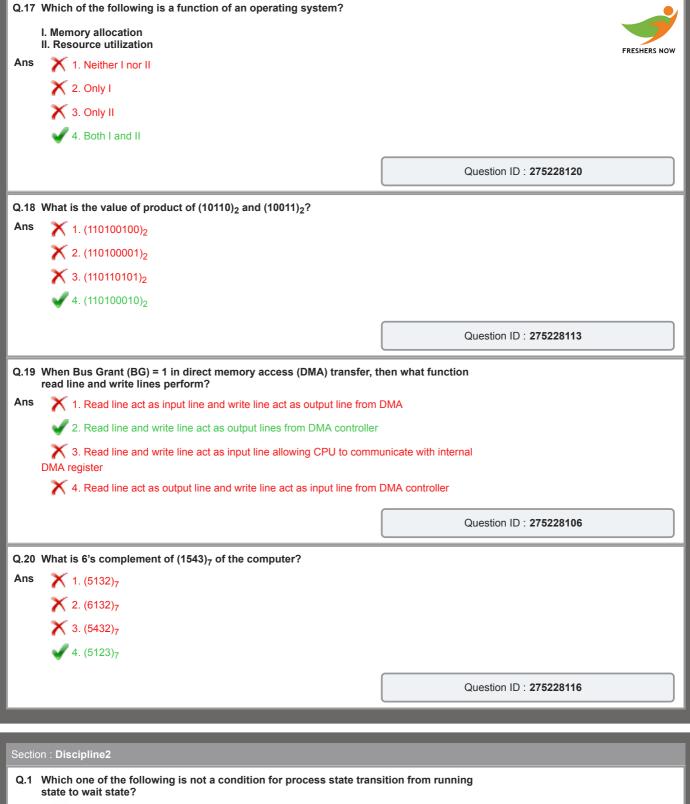
1	Disk scheduling	i	Shortest Job First
2	CPU scheduling	ii	Banker's Algorithm
3	Page replacement	iii	Shortest Seek Time
4	Deadlock	iv	Least Recently Used

**Ans** 1. 1 – iii, 2 – i, 3 – iv, 4 – ii

X 2. 1 – iv, 2 – i, 3 – ii, 4 – iii

**X** 3. 1 − iii, 2 − iv, 3 − i, 4 − ii

X 4. 1 – i, 2 – iv, 3 – ii, 4 – iii



Ans

1. If a process request an Input/Output operation

X 2. If a process waits for some action performed by another process

3. If a lower priority process arrived

X 4. If a higher priority process arrived

Q.2 Consider a main memory with 3 page frames in the following sequence of page reference 3, 4, 2, 3, 9, 1, 6, 3, 4, 9. What is the number of page fault using FIFO page replacement algorithm?



Ans

**X** 1.8

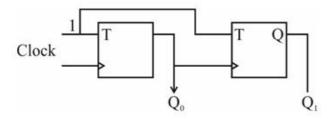
X 2.7

**X** 3. 10

4.9

Question ID: 275228125

Q.3 In the given sequential circuit if the initial value of  $Q_1Q_0 = 00$ , then what are the next three values of  $Q_1Q_0$ ?



Ans

**1**. 11, 10, 01

**X** 2. 10, 11, 01

**X** 3. 11, 10, 00

**X** 4. 10, 00, 01

Question ID: 275228142

Q.4 A free list contains three memory areas of sizes 6 KB, 15 KB and 12 KB. The next three memory requests are for 10 KB, 2 KB and 14 KB. Which of the memory allocation strategy that would be able to accommodate all the three requests?

Ans

🎻 1. Best Fit

X 2. Worst Fit

X 3. Next Fit

X 4. First Fit

Question ID: 275228124

Q.5 What is the representation of (4589)<sub>10</sub> in Binary coded Decimal (BCD) form?

Δne

**X** 1. 1001011000100100

X 2. 1011001000100100

3. 0100010110001001

**X** 4. 0100011010001001

Q.6	Which of the following statement is true about semaphore?		
	I. It can be Implemented using software II. It can be Implemented using hardware		FRESHERS NOW
Ans	X 1. Only II		
	2. Neither I nor II		
	X 3. Only I		
	4. Both I and II		
		Question ID :	275228123
<u> </u>			
Q.7	What is the correct answer of the given statements in the given ord	er?	
	I. Gate in which output of logical gate is high when all inputs are high. Half of byte is known as III. A flip-flop whose output follows the input when triggered is		
Ans	1. NOR gate, byte, S – R flip-flop		
	2. NAND gate, bit, T – flip-flop		
	X 3. OR gate, nibble, T – flip-flop		
	√ 4. AND gate, nibble, D – flip-flop		
		Question ID :	275228139
		2000.02	
Q.8	The Boolean expression		
	$AB + \overline{AC} + BC = \underline{\hspace{1cm}}$		
Ans	$\checkmark$ 1. $AB + \overline{AC}$		
	$\times$ 2. $A\overline{B} + A\overline{C}$		
	$\times$ 3. AC + $\overline{A}B$		
	<b>★</b> 4. AB		
		Question ID :	275228128
		2000001110	
Q.9	5 ,		
Ans	1. Direct – circuit transistor logic		
	2. Direct – coupled transistor logic		
	3. Diode – coupled transistor logic		
	X 4. Direct – circuit threshold logic		
		Question ID :	275228132

### Q.10 Which of the logic equation is the represented canonical sum of product form for the given K-Map?



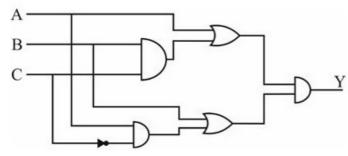
- $\times$  1.  $\overline{A}\overline{B}\overline{C}\overline{D} + \overline{A}\overline{B}\overline{C}D + \overline{A}\overline{B}\overline{C}D + ABC\overline{D} + A\overline{B}\overline{C}D$
- X 2. ABCD + ABCD + ABCD + ABCD + ABCD
- ✓ 3.  $\overline{ABCD} + \overline{ABCD} + \overline{ABCD} + \overline{ABCD} + \overline{ABCD} + \overline{ABCD}$
- X 4. ABCD + ABCD + ABCD + ABCD + ABCD

Question ID: 275228136

# Q.11 What is output of Y in the given circuit?

I. 
$$BC + A\overline{C}$$

$$II.(A+C)(B+\overline{C})$$



- Ans X 1. Only I
  - X 2. Only II
  - X 3. Neither I nor II
  - 4. Both I and II

Question ID: 275228141

### Q.12 A decimal to Binary Coded Encoder have \_\_\_\_\_ inputs and \_\_\_\_\_ outputs.

Ans

- **X** 1. 4; 10
- 2. 2; 10
- **X** 3. 4; 4
- 4. 10; 4

Q.13	Which logical gate is known as Universal gate?	
Ans	<b>X</b> 1. Ex−OR	
	× 2. AND	FRESHERS NOW
	✓ 3. NAND	
	<b>X</b> 4. NOT	
		Outseties ID : 077900400
		Question ID : 275228129
Q.14	A logic circuit that accepts one input and distributes it over several	output is known as
Ans	1. multiplexer	
	× 2. encoder	
	✓ 3. demultiplexer	
	X 4. flip flop	
		Question ID : 275228135
Q.15	Gray code representation of (27) <sub>10</sub> is	
Ans	X 1. 11010	
	<b>✓</b> 2. 10110	
	<b>X</b> 3. 11100	
	<b>X</b> 4. 11011	
		Out that ID (077000440
		Question ID : 275228140
Q.16	How many rows are there in a truth table having 'n' variables?	
Ans	<b>X</b> 1. log₂n	
	× 2. n <sup>2</sup>	
	<b>√</b> 3. 2 <sup>n</sup>	
	<b>★</b> 4. 2n	
		Question ID : 275228130
<u> </u>		
Q.17 Ans	What is the relation between N select inputs and M inputs lines in a $1.2^{M} = N$	multiplexer?
7.115	1. 2" = N × 2. 2N = M	
	2. 2N = N  3. 2M = N	
	3. $2N = N$ 4. $2^N = M$	
	4. 2 = IVI	
		Question ID : 275228138
Q 18	A product of sum (POS) form of logic function consist of only	while a sum of
	product (SOP) form of logic function consist of only	
Ans	1. maxterms; miniterms	
	X 2. miniterms; maxterms	
	3. maxterms; maxterms	
	4. miniterms; minitersm	
		Question ID : 275228133

Q.19 The binary equivalent of (25.625) <sub>10</sub> is	•
Ans X 1. (11101.001) <sub>2</sub>	
√ 2. (11001.101) <sub>2</sub>	FRESHERS NOW
<b>X</b> 3. (10001.11) <sub>2</sub>	
× 4. (11011.100) <sub>2</sub>	
	Overtice ID - expenses
	Question ID : 275228137
Q.20 In a disk system with 100 cylinders, the request to access the cylin following sequence: 34, 4, 7, 19, 10, 83, 2, 6, 20, 15 Assuming that the head is currently at cylinder 50, then what is the satisfy all requests if it takes 1 second to move from one cylinder to (Shortest seek time first policy is used)	time taken to
Ans X 1. 139 seconds	
X 2. 119 seconds	
X 3. 109 seconds	
√ 4. 129 seconds	
	Question ID : 275228127
Section : Discipline3	
Q.1 The speed of supercomputer is measured in	
Ans 1. Floating – point operations per second	
2. Floating – point operations per minute	
→ 3. Floating – point operations per hour	
X 4. Floating – point operations per day	
	Question ID : 275228147
	Question ib . 213220141
Q.2 When the rules of the programing language are not followed it give	s errors.
Ans X 1. run time	
× 2. Printing	
X 3. Logical	
4. Syntax	
	Question ID : 275228146
	Question ID . 21 3220 140
Q.3 Which of the following is NOT an object oriented feature?	
Ans X 1. Inheritance	
2. Abduction	
3. Abstraction	
4. Polymorphism	
	Question ID : 275228160
	GOODBIT ID . 27 OZZO 100

### Q.4 Match the following window of visual basic with their function.

FRESHERS NOW

1	Immediate window	i	It Display the properties for the current object
2	Properties window	ii	It design the form
3	Project explorer windows	iii	It list the forms and modules for the current projects
4	Design window	iv	It give current values of variables

Ans

Question ID: 275228153

### Q.5 What is the meaning of >>> in Python Language?

Ans

- 1. Interpreter is ready to take instruction
- X 2. Compiler is ready to take instruction
- X 3. 3 right shift
- X 4. 3 left shift

Question ID: 275228162

- Q.6 Which of the following statement(s) is/are correct about modular programming approach?
  - I. Ease of use
  - II. Reusability

Ans

- X 1. Neither I nor II
- X 2. Only II
- X 3. Only I
- 4. Both I and II

Question ID: 275228156

Q.7 How the object interact with each other in object oriented programming?

Ans

- X 1. By transmitting signal
- X 2. By ringing
- 3. By sending message
- X 4. By text

Q.8	What is the shortcut key of Step Over in Visual Basic?	
Ans	X 1. F9	
	✓ 2. F10	FRESHERS NOW
	<b>X</b> 3. F6	
	<b>X</b> 4. F11	
		Question ID : 275228152
		Question ID . 2/5226152
Q.9	What is the relation between object and class in an object oriented	programming?
Ans	1. Object is scope of class	
	2. Object is type of class	
	3. Object is instance of class	
	X 4. Object is keyword of class	
		Ougation ID : 275229459
		Question ID : 275228158
Q.10	Which of the following is false regarding the machine language?	
Ans	🗙 1. It is difficult to program	
	2. It is machine dependent	
	X 3. It is made up of 1's and 0's	
	4. It easier to modify	
		Out a first ID - 077000445
		Question ID : 275228145
Q.11	Which symbol is used to represent an input/output operation in the	flow chart?
Ans	X 1. Rectangle	
	× 2. Oval	
	X 3. Circle	
	√ 4. Parallelogram	
		Question ID : 275228144
		Question ID . 273220144
Q.12	Which of the following statement(s) is/are true about Break All Visus buttons?	al Basic toolbar
	I. Delete the selected item II. Pauses execution of your program	
Ans	1. Neither I nor II	
	× 2. Only I	
	✓ 3. Only II	
	X 4. Both I and II	
		Question ID : 275228149
		Question ID . 2/9220149
Q.13	Which is not an acceptable control name in visual basic?	
Ans	1. txtFirst + Last Name	
	2. btnCalc	
	X 3. txtAge	
	X 4. IblDistance	
		Question ID : 275228150
1		QUOSUUII ID . 21 9220 130

Ana 🥯	
Ans 1. It determines the next position of the form	
X 2. It determines the current position of the form	FRESHERS NOW
3. It determines the initial position of the form	
X 4. It determine the end position of the form	
Question ID : 275228148	
Q.15 Which one is NOT a feature of Python language?	
Ans X 1. Interpreted language	
X 2. Portable	
X 3. High level language	
4. Case insensitive	
Question ID : 275228161	
Q.16 What is the full form of IDE in visual basic?	
Ans X 1. Integration development environment	
2. Integrated development electronics	
3. Integrated development environment	
X 4. Integrated drive electronics	
Question ID : 275228151	
Q.17 In a modular programming approach problem is further divided into	
Ans X 1. object	
2. modules	
X 3. question	
X 4. solution	
Question ID : 275228155	
Q.18 In Object Oriented Programming, when a new class created from an existing class using principle of inheritance, then the new class is known as	
Ans X 1. New class	
× 2. Member class	
X 3. Child class	
4. Derived class	
Question ID : 275228159	
Q.19 Which of the following is NOT an attribute of good programming languages?	
Ans X 1. Support for abstraction	
× 2. Clarity, simplicity and unity	
X 3. Ease of program verification	
4. Non portability	
Question ID : 275228143	

#### Q.20 Which one of the following is correct regarding Programming Languages?

Ans

1. Functional programming - Logical unit



2. Object-oriented programming - Objects





- 3. Logical Programming Function
- 4. Procedural programming Functions

Question ID: 275228154

### Section : Discipline4

Q.1 Inorder and postorder traversal of a binary tree are given.

In: E, I, C, F, B, G, D, J, H, K Post: I, E, F, C, G, J, K, H, D, B

What is the preorder traversal of the binary tree?

Ans

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





X 4. B, C, E, I, F, D, G, H, K, J

Question ID: 275228182

Q.2 What is responsibility of event queue in event driven programming?

Ans

1. Make a sequence in which event is executed

2. Delete the event

3. Change the event

4. Create new event

Question ID: 275228167

Q.3 Arrange the following complexity of the algorithm in ascending order.

$$O\big(2^n\big), O\big(n\big), O\big(log_2n\big), O\big(nlog_2n\big), O\big(n^2\big)$$

Ans

$$\checkmark$$
 1.  $O(log_2n), O(n), O(nlog_2n), O(n^2), O(2^n)$ 

$$\times$$
 2.  $O(\log_2 n), O(n \log_2 n), O(n), O(n^2), O(2^n)$ 

$$\times$$
 3.  $O(n), O(n^2), O(\log_2 n), O(n \log_2 n), O(2^n)$ 

$$\times$$
 4.  $O(n),O(\log_2 n),O(n\log_2 n),O(n^2),O(2^n)$ 

Q.4 Consider a n × n tri-diagonal sparse matrix A. Suppose we want to store sparse A in a one-dimensional array. What is the index of the (i.j)<sup>th</sup> element of A in the onedimensional array. FRESHERS NOW X 1. 2i + 2j **X** 2. i + j − 1 **X** 3. i + j √ 4. 2i + j – 2 Question ID: 275228177 Q.5 The numbers 70, 50, 10, 80, 30, 60, 100, 90, 40, 20 are inserted in the given order in to a binary search tree. What is the in-order traversal sequence of the resultant binary search tree? Ans **X** 1. 100, 90, 80, 70, 60, 50, 40, 30, 20, 10 **X** 2. 70, 50, 10, 80, 30, 60, 100, 90, 40, 20 **3**. 10, 20, 30, 40, 50, 60, 70, 80, 90, 100 **X** 4. 10, 30, 50, 70, 90, 20, 40, 60, 80, 100 Question ID: 275228173 Q.6 What is the output of this code in Python Language: >>> x = 125 >>> y = 13 >>> x // = y >>> x Ans 1. 125/13 **X** 2. 10 **X** 4. 9.62 Question ID: 275228165 Q.7 What is balance factor of an AVL tree?  $1. |h(T^L) + h(T^R)| \le 1$ Ans X 2.  $|h(T^R)| \le 1$ **X** 3. |h(T<sup>L</sup>)| ≤ 1  $\checkmark$  4.  $|h(T^L) - h(T^R)| ≤ 1$ 

Question ID: 275228174

Q.8 Which statement is true about condition of overflow in the circular Queue?

I. Front = 1 and Rear = N

II. Front = Rear + 1

Ans

X 1. Only II

X 2. Neither I nor II

3. Both I and II

X 4. Only I

## Q.9 What is output of the code in Python Language:

>>> str1 = 'All the Best'

>>> str1[-3]

Ans







🗙 4. 'h



Question ID: 275228169

### Q.10 Which statement(s) is/are NOT true about the variables in Python Language:

- I. Values of every variable can be changed once a variable has been created and assigned value.
- II. Assignment statement is used to create a new variable and assign value.

Ans

- 1. Only I
- X 2. Both I and II
- X 3. Neither I nor II
- X 4. Only II

Question ID: 275228164

# Q.11 What is the average number of comparisons required in sequential search to find an element?

Ans

- $\times$  1.  $\frac{n(n+1)}{2}$
- **X** 2. n<sup>2</sup>
- $\checkmark$  3.  $\frac{(n+1)}{2}$
- **X** 4. n

Question ID: 275228175

### Q.12 The given declaration statement in Python Language belongs to which data type?

>>>Student ={'SUBJECT' : 'Compiler', 'Marks' : '50', 'Grade' : 'C'}

Δns

- 1. Dictionary
- X 2. Sequence
- X 3. Sets
- X 4. Numbers

Question ID: 275228163

# Q.13 A complete binary tree T have n leaf nodes. What is the number of nodes with degree of 2 in tree T?

Ans

- X 1. n/2
- 📉 2. r
- 💢 3. 2n
- **√** 4. n − 1

	How many different binary search trees can be constructed with 6 d	ifferent nodes?
Ans	<b>X</b> 1.64	
	× 2. 128	FRESHERS NOW
	<b>X</b> 3. 32	
	<b>√</b> 4. 132	
		Question ID : 275228178
Q.15	Consider an array A[ $2:8,-4:1,6:10$ ]. Base address of array A is each element = 2 word per memory cell. What is the address of A[ $5,6$ form?	
Ans	<b>√</b> 1. 628	
	× 2. 630	
	× 3.626	
	<b>X</b> 4. 614	
		Question ID : 275228181
Q.16	What is the value of the ((Start $\rightarrow$ Next) $\rightarrow$ Next) $\rightarrow$ Info in the given	ist?
	$\boxed{\text{Start} \longrightarrow \boxed{125} \longrightarrow \boxed{140} \longrightarrow \boxed{128} \longrightarrow \boxed{1}$	30 ×
Ans	<b>X</b> 1. 140	
	<b>X</b> 2. 130	
	<b>X</b> 3. 125	
	<b>√</b> 4. 128	
		Question ID : 275228171
		Question is . 279220171
	Consider a sorted array of 10,00,000 elements. What is the maximum comparison required to find the location an item using binary search	
Ans	X 1. 21	
	<b>★</b> 2. 6	
	3.7	
	<b>√</b> 4. 20	
		Question ID : 275228179
	Using division method $[n(k) = k \mod m]$ , at which position 177 and stored in hash table when the size of hash table is 57?	197 key values are
Ans	1. 26, 6	
	2. 27, 7	
	3. 6, 26	
	<b>X</b> 4. 7, 27	
		Question ID : 275228180
		2333333 2 3 3 2 3 3 3 3 3 3 3 3 3 3 3 3

# Q.19 What is the output of the code in Python Language: for num in range (3):



Ans

**X** 1. 300, 300, 300

if num > 0:

print (num\*100)

**X** 2. 100, 100, 100

3. 100, 200, 300

**X** 4. 300, 200, 100

Question ID: 275228168

### Q.20 Match the following with respect to Event Driven Programming.

i	Event	a	Perform said event
ii	Event listener	b	User interaction
iii	Event handler	С	Event monitored by code

Ans X 1. i-a, ii-b, iii-c

X 2. i-b, ii-c, iii-a

X 3. i-c, ii-a, iii-b

4. i-b, ii-a, iii-c

Question ID: 275228166

# Section : Discipline5

Q.1 What is output of the given code?

```
void main ()
int a = 3, b, *p, **q;
p = &a;
q = &p;
b = 2 * (**q + *p);
cout << b;
```

Ans

**X** 1. 18



Q.2	Which statement is correct about static member function in C++?	
	I. It can access to only other static members declared in the same class.     II. It cannot be called using the class name (instead of its objects)	
Ans	★ 1. Both I and II	
	2. Neither I nor II	
	✓ 3. Only I	
	X 4. Only II	

Question ID: 275228192

# Q.3 What is the symbol and associativity of the assignment operator in C++?

Ans

x	1	=	=	left	to	ria	ht
•		. –	т,	ICIL	ιυ	нy	ш

X 2. =, left to right

X 3. ®, right to left

√ 4. =, right to left

Question ID: 275228191

Q.4	By default in C++, the member of a class are	, while, by default the member of
	structure are	

Ans

X 1. public; private

2. private; public

X 3. public; public

X 4. private; private

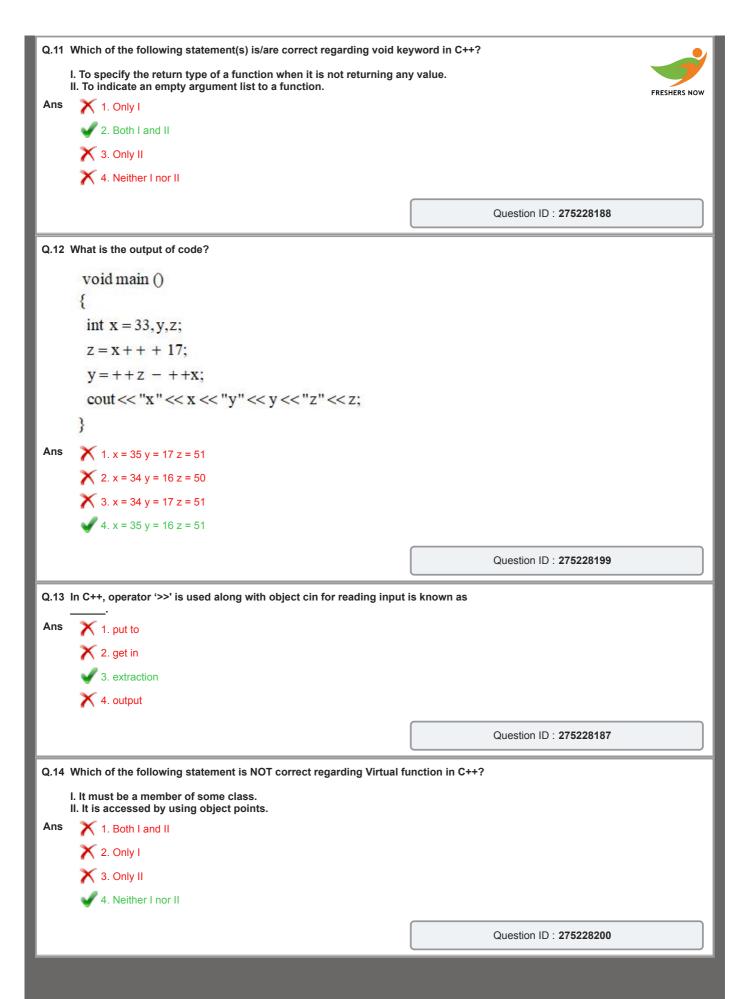
Question ID: 275228194

# Q.5 Match the following.

(i)	Overriding	1	Allows a function or operator to be given more than one definition
(ii)	Over loading	2	A function that is called to deallocate memory
(iii)	Destructor	3	The ability to change the definition of an inherited method

Ans

Q.6	Which of the following is specified by function prototype in C++?		
	I. Return Type II. Function name III. Number and types of argument	FRE	ESHERS NOW
Ans	X 1. I and III		
	× 2. II and III		
	√ 3. I, II and III		
	X 4. I and II		
		Question ID : 275228190	
		Question ID . 213220130	
	Which statement is NOT correct regarding ternary operator in C++?		
Ans	1. It is also known as conditional operator		
	2. It is similar to if else		
	3. Operator overloading is possible in it		
	X 4. Its symbol is ?:		
		Question ID : 275228193	
Q.8	Two way merge sort algorithm is used to sort the following elements	s in ascending	
	order. 200, 470, 150, 80, 90, 40, 400, 300, 120, 70.		
	What is the order of these elements after second pass of the merge $% \left( 1\right) =\left( 1\right) \left( 1\right) $	sort algorithm?	
Ans	1. 40, 80, 90, 150, 200, 300, 400, 470, 70, 120		
	2. 80, 150, 200, 470, 40, 90, 300, 400, 70, 120		
	3. 40, 70, 80, 90, 120, 150, 200, 300, 400, 470		
	<b>X</b> 4. 200, 470, 80, 150, 40, 90, 300, 400, 70, 120		
		Question ID : 275228183	
0.9	What is the complexity of selection sort algorithms?		
Ans	<b>★</b> 1. O(n)		
	✓ 2. O(n²)		
	× 3. O(2n)		
	<b>X</b> 4. O(nlog₂n)		
		Question ID : 275228184	
Q.10	In C++, namespace defines a for the identifiers that are used	in a program.	
Ans	1. scope		
	× 2. standard		
	X 3. syntax		
	X 4. size		
		Question ID : 275228186	
		Quodion ID . 270220100	



# Q.15 What is join operation in Structure Query Language (SQL)? 1. Join is an operation used to combine rows from two or more tables based on one or more common fields between them. FRESHERS NOW X 2. Join is an operation which work on a single row of a table and return a single value. 3. Join is an operation which is used to combine two different data keys. X 4. Join is an operation used to select group rows of a table that contains the same values in a specific column. Question ID: 275228201 Q.16 Which of the following is NOT a part of Data Definitions Language in Relational **Database Management System?** Ans 1. Insert table 2. Alter table 3. Create table X 4. Drop table Question ID: 275228202 Q.17 To convert the case of letters, which header file in C++ is to be included in the program? Ans X 1. <assert.h> √ 2. <ctype.h> X 3. <iostream.h> X 4. <string.h> Question ID: 275228185 Q.18 In C++, "Out-of-range-index" belong to \_\_ type exception while keyboard interrupts are called \_\_\_\_\_ exceptions. Ans 1. asynchronous; asynchronous X 2. asynchronous; synchronous X 3. synchronous; synchronous 🖊 4. synchronous; asynchronous Question ID: 275228197 Q.19 In C++, bool data type is used to hold how many values? Question ID: 275228189

Q.20 Match the following file stream classes in C++ with its functions.

1	fstream base	(i)	Provides support for simultaneous input and output operation
2	ifstream	(ii)	Provides output operation
2	a fortugam	(;;;)	Provides operations

(iii)

common to file streams

Provides input operation



Ans

ofstream

fstream

Question ID: 275228196

# Section : Discipline6

Q.1 Which of the following statement is a part of Data Manipulative Language in Structured **Query Language?** 

Ans

1. Delete

2. Alter table

X 3. Paste

**X** 4. Copy

Question ID: 275228208

Q.2 Which of the following statement(s) is/are correct regarding COUNT functions in Structured Query Language of Relational Database Management System?

I. COUNT(\*) is used to count the number of values in a column.

II. COUNT() is used to count the number of rows of the query result.

Ans

X 2. Only II

X 3. Only I

X 4. Both I and II

Question ID: 275228210

Q.3 What is the cardinality and degree of relation having 50 Tuples and 20 Attributes?

Ans

1. Cardinality – 50 Degree – 20

2. Cardinality - 20 Degree - 50

X 3. Cardinality – 70 Degree – 30

X 4. Cardinality – 50 Degree – 50

Q.4	Which of the following is incorrect regarding user-friendly website?	
Ans	1. It should have faster loading time	
	X 2. It should have browser consistency	FRESHERS NOW
	X 3. It should be easily accessible	
	4. It should be Cluttered	
		Question ID : 275228219
Q.5	What is Denormalization in Relational Database Management System	n?
Ans	X 1. Denormalization is used to develop a new schema in database.	
	2. Denormalization is the process of increasing redundancy to imp	rove performance.
	X 3. Denormalization is used to decrease the dependence on norma	I forms.
	X 4. Denormalization is used to decrease rredundancy in database.	
		Question ID : 275228206
Q.6	Write the name of the relational algebra operation as per the given o	order of their
	notation.	
Ans	П, Х, s	
Alla	X 1. Projection, outer join, select	
	2. projection, Cartesian product, division	
	X 3. Intersection join, outer join, select	
	4. Projection, Cartesian product, select	
		Question ID : 275228204
Q.7	Consider the following relation schema of students.	
	STUDENT (Rollno, Name, DOB, Marks, Gender) Which of the given query is equivalent to this query in English? "Fir student having marks above 80".	nd the tuples of
Ans	1. s <sub>Marks&gt;80</sub> (STUDENT)	
	× 2. Π <sub>Marks&lt;80</sub> (STUDENT)	
	X 3. s <sub>Marks&lt;80</sub> (STUDENT)	
	X 4. Π <sub>Marks&gt;80</sub> (STUDENT)	
		Question ID : 275228205
Q.8	A collection of web pages is known as	
Ans	X 1. web server	
	X 2. Web world	
	√ 3. website	
	X 4. Web tool	
		Question ID : 275228218

Q.9	Each Microsoft Excel file is also known as		
Ans	1. Workbook		y
	X 2. Document	FRESHERS NOW	/
	X 3. Sheet		
	X 4. Slide		
		Ougation ID : 275239242	
		Question ID : 275228212	<u> </u>
Q.10	Microsoft PowerPoint helps to enhance our presentation with	<u> </u>	
	I. Pictures and charts II. Sound effect III. Tables		
Ans	X 1. II and III		
	2. I, II and III		
	X 3. I and III		
	× 4. I and II		
		0 11 15 1711111	1
		Question ID : 275228214	
Q.11	What is the shortcut key for right alignment of the paragraph in a M document?	licrosoft Word	
Ans	<b>X</b> 1. Ctrl + L		
	× 2. Ctrl + J		
	√ 3. Ctrl + R		
	<b>X</b> 4. Ctrl + E		
		Question ID : 275228211	
		Question is . 210220211	
Q.12	Which key open a Goto window in Microsoft Excel?		
Ans	1. Ctrl + G		
	X 2. Tab + G		
	X 3. Shift + G		
	X 4. Alt + G		
		Question ID : 275228216	
			_
Q.13	The selected text's font in Microsoft Word document will or keys.	n pressing "Ctrl + ]"	
Ans	1. Increase by 1 points		
	X 2. Decrease by 1 points		
	X 3. Decrease by 2 points		
	X 4. Increase by 2 points		
		Question ID : 275228215	
		QUESTION ID . 2/3220213	

# 



Question ID: 275228213

#### Q.15 What is tag in HTML?

Ans

1. It contains information about the webpage.

2. It contains the address of the webpage.

3. It contains the number of nested tags in the page.

4. It contains the number of tags in the web page.

Question ID: 275228222

# Q.16 Which of the following statement(s) is/are correct regarding Structured Query Language(SQL)?

- I. The datatype FLOAT can hold numbers with decimal points.
- II. The datatype BIGINT occupies I6 bytes.

Ans

🎤 1. Only I

X 2. Only II

X 3. Both I and II

X 4. Neither I nor II

Question ID: 275228207

Q.17 Match the following formal relational term with informal equivalents.

i	Relation	1	Row
ii	Tuple	2	Value
iii	Attribute	3	Table
iv	Domain	4	Column

Ans

1. i-3, ii-1, iii-4, iv-2

X 2. i-4, ii-3, iii-2, iv-1

X 3. i-1, ii-3, iii-2, iv-4

X 4. i-3, ii-4, iii-1, iv-2

Question ID: 275228203

- Q.18 Which of the following statement(s) is/are correct regarding <title> tag in HTML?
  - I. This tag always goes outside to the <head> tag.
  - II. This tag is used to indicate the title of the webpage.
  - III. It is also used by search engines.

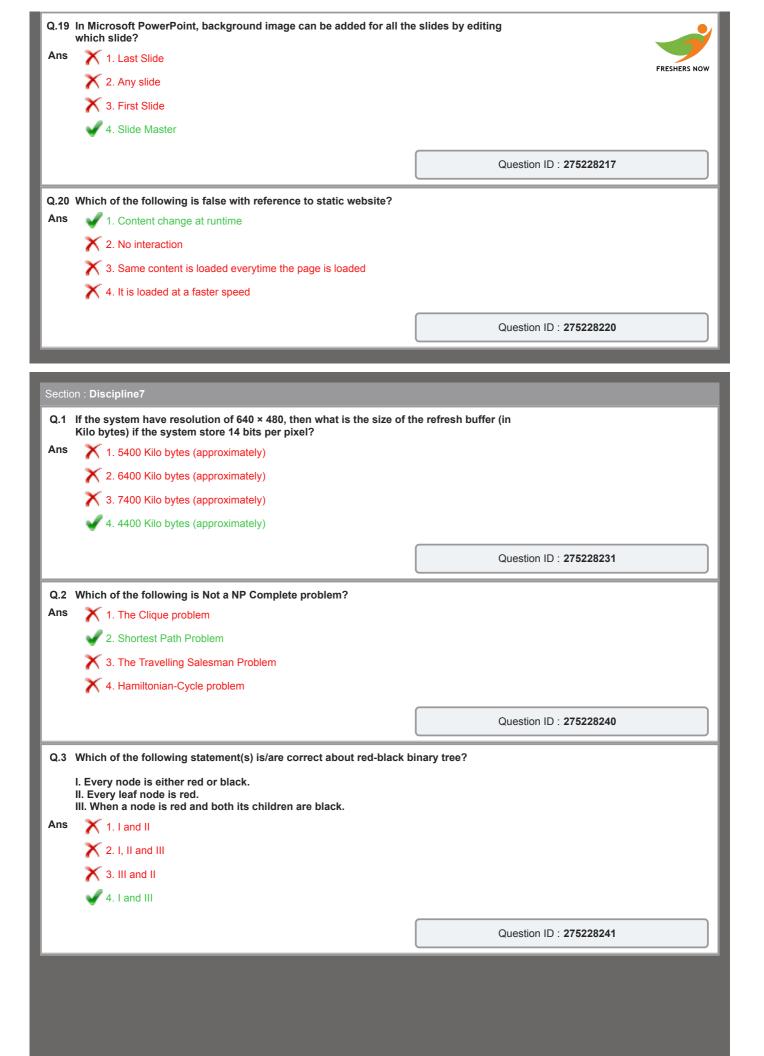
Ans

🎻 1. II and III

X 2. Only II

X 3. I, II and III

X 4. I and II



Q.4 Ans	,	what will be the	FRESHERS NOW
	2. 5.5 inches		
	3. 6 inches		
	X 4. 3 inches		
		Question ID : 275228227	
Q.5	Which of the following statement is false about a B-tree of order M?		
Ans	1. A node is full if it has (M – 1) keys.		
	<b>X</b> 2.		
	The internal nodes except the root have atleast $\left\lceil \frac{M}{2} \right\rceil$	child nodes.	
	X 3. The root has at least two child nodes and at most M child nodes		
	4. Leaf nodes are not at the same level.		
		Question ID : <b>275228238</b>	
		Question id . 21 9220200	
	Which of the following is not a type of Network topology?		
Ans	X 1. Star Network		
	2. Ring Network		
	3. Singleton Network		
	X 4. Hybrid Network		
		Question ID : 275228232	
Q.7	The number of vertices in undirected graph with odd degree is alwa	ve.	
Ans	1. prime number	, , , , , , , , , , , , , , , , , , ,	
	2. odd number		
	<b>★</b> 3. zero		
	✓ 4. even number		
		Question ID : 275228239	
Q.8	Memory buffer which stores the image definition is known as		
Ans	X 1. Picture Buffer		
	2. Frame Buffer		
	X 3. Pixel Buffer		
	X 4. Graphic Buffer		
		Question ID : 275228229	
		200000	
Q.9			
Ans	X 1. JPG		
	2. PNG		
	<b>√</b> 3. WAV		
	<b>★</b> 4. GIF		
		Question ID : 275228225	

	I. Half duplex communication is multidirectional communication.  II. Full duplex communication is bidirectional communication.		
Ans	X 1. Neither I nor II	FRESHERS	NOW
	× 2. Both I and II		
	X 3. Only I		
	✓ 4. Only II		
		Question ID : 275228234	
Q.11	What is the resolution of 2 inch × 2 inch image which has 512 × 512	pixels?	
Ans	X 1. 2048 pixels per inch		
	2. 128 pixels per inch		
	X 3. 512 pixels per inch		
	4. 256 pixels per inch		
		Question ID : 275228228	
_		Question ID . 21 3220220	
	Aspect ratio is the ratio of to		
Ans	1. height; width		
	2. diagonal; height		
	X 3. height; diagonal		
	4. width; height		
		Question ID : 275228230	
Q.13 Ans	How many forms can we have on a webpage at the maximum?		
Alla	<b>X</b> 1.1		
	<b>X</b> 2.5		
	3. 10		
	4. No limit		
		Question ID : 275228223	
Q.14	Which of the following statement(s) is/are true regarding OSI layers networks?	in computer	
	I. The session layer provides means of establishing, maintaining an	d terminating a	
	session between two end users.  II. Data Link layer sets up a logical path between the source and des of the network.	stination computer	
Ans	X 1. Neither I nor II		
	× 2. Only II		
	✓ 3. Only I		
	X 4. Both I and II		
		Question ID : 275228233	
		QUESTION D. 21022020	

Q.10 Which of the following statement(s) is/are true regarding Data Communication?

#### Q.15 Consider a max heap, represented by the array:



If a value 20 is inserted into this heap, then what will be the new max heap

Ans

- 1. 23, 20, 17, 14, 13, 10, 6, 5, 1
- **X** 2. 23, 17, 4, 6, 13, 10, 1, 5, 20
- **3**. 23, 20, 14, 17, 13, 10, 1, 5, 6
- **X** 4. 23, 17, 20, 14, 13, 10, 6, 51

Question ID: 275228242

# Q.16 Which of the following statement(s) is/are true regarding switching techniques in Data communication?

- I. In circuit switching a dedicated path is identified between the sender and the receiver
- II. In packet switching each information to be transmitted between sender and receiver is broken down into smaller packets.

Ans

- X 1. Neither I nor II
- 2. Both I and II
- X 3. Only I
- X 4. Only II

Question ID: 275228235

#### Q.17 If Multiple bits per pixel are used to store an image, then the frame buffer is known as

Ans

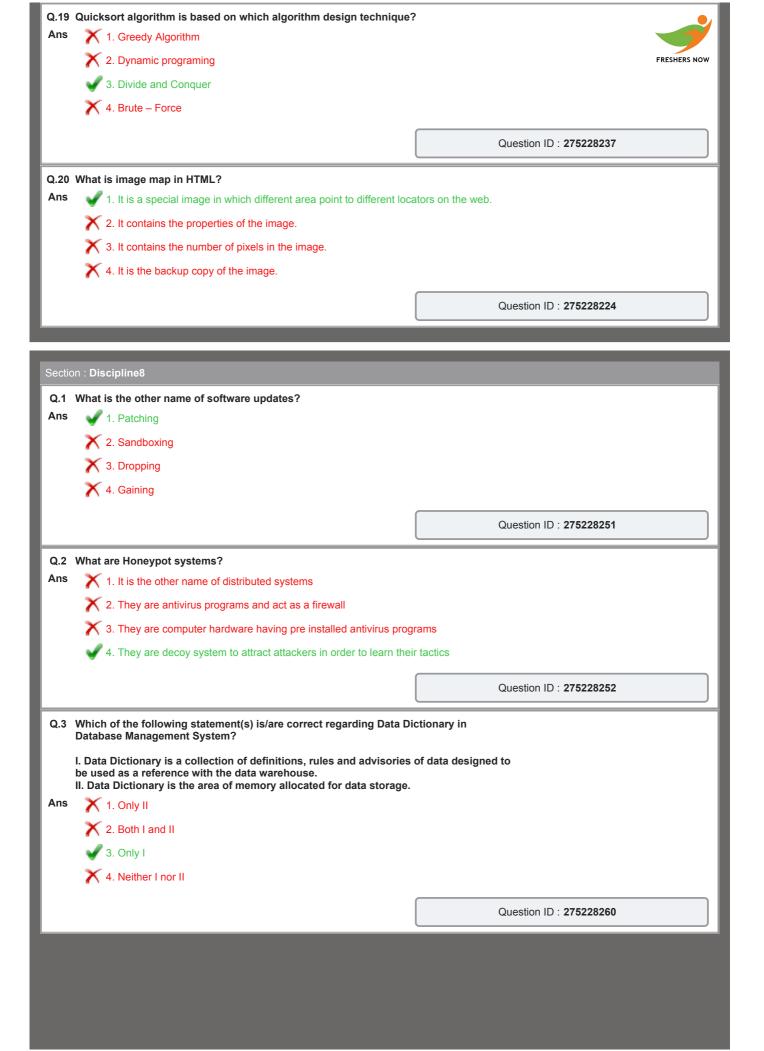
- X 1. binary map
- X 2. bit map
- 3. pix map
- X 4. Image map

Question ID : 275228226

### Q.18 If complete graph have 'n' nodes, then it will have how many edges?

Ans

- $\checkmark$  1.  $\frac{n(n-1)}{2}$
- $\times$  2.  $\frac{(n-1)}{2}$
- $\times$  3.  $\frac{n(n-1)}{4}$
- $\times$  4.  $\frac{n}{2}$



Q.4	Q.4 Which one of the following is NOT a part of the ACID properties of database transaction?		
Ans			
	X 2. Consistency		FRESHERS NOW
	✓ 3. Instance		
	X 4. Durability		
	• • • • • • • • • • • • • • • • • • • •		
		Question ID : 275228257	
Q.5	is a way of providing control execution environment for extr	acted programs.	
Ans	X 1. Paycods		
	X 2. Honeypot		
	3. Sandboxing		
	X 4. Spoofing		
		Question ID : 275228250	
		Question ID : 2/5228250	
Q.6	Which of the following statement(s) is/are correct regarding single r structured query language?	ow functions in	
	I. INSERT() is a numeric function.		
	II. ROUND() is a numeric function. III. LENGTH() is a character function.		
Ans	1. Only III		
	2. Both I and III		
	X 3. Both I and II		
	4. Both II and III		
		Question ID : 275228254	
_			
ı	In Structured Query Language, what is the GROUP BY clause?		
Ans	1. It groups the table with same hame in the database.		
	2. It groups the rows together that contain the same values in a sp		
	X 3. It groups the columns together that contains the same values in	a specific rows.	
	X 4. It combines data from two tables on specific conditions.		
		Question ID : 275228258	
Q.8	What is the full form of FOPL in aritficial intelligence?		
Ans	X 1. File open predicate logic		
	X 2. File operator perforate logic		
	X 3. First operator performance logic		
	4. First order predicate logic		
		Outpotion ID : 07F00004F	
		Question ID : 275228245	

Q.9	Which of the following is NOT an element of Database?	
Ans	1. Relationships	
	× 2. Constraints	FRESHERS NOW
	√ 3. FRONTEND	
	X 4. Schema	
		Outsetion ID : 07F0000F0
		Question ID : 275228253
Q.10	How many entities are associated in the quaternary relationship in E	- R modelling?
Ans	<b>√</b> 1. 4	
	<b>X</b> 2. 2	
	<b>X</b> 3.3	
	<b>★</b> 4.5	
		Ougation ID : 275229256
		Question ID : 275228256
Q.11	What is Customer Relationship Management?	
Ans	1. Customer relationship management includes the methodologies capabilities that help an enterprise to manage customer relationships.	, technology and
	2. Customer relationship management is a corporate level strategy creating new customers.	which focuses on
	3. Customer relationship management is the process of planning, i controlling the operations of the supply chain.	mplementation and
	4. Customer relationship management is the process of daily production.	uction and
		Oversion ID - 07700000
		Question ID : 275228262
Q.12	is an act of disguising a communication from an unknown so trusted source.	ource as being a
Ans	1. Bullying	
	× 2. Sandboxing	
	✓ 3. Spoofing	
	X 4. Stealing	
	4. Stealing	
		Question ID : 275228249
Q.13	act as a interface between a domain expert and an expert sy	stem.
Ans	X 1. K editor	
	× 2. Knowledge Editor	
	X 3. Language Editor	
	4. Intelligent editor	
		Ougation ID : 275222246
		Question ID : 275228246
Q.14	What is self join in Database Management System?	
Ans	1. In a self-join, a table is joined to itself	
	2. In a self join, a table is joined to a number	
	X 3. In a self join, a table is joined with a query	
	X 4. In a self-join, two databases are joined	
		Question ID : 275228255

#### Q.15 Which of the following is Not a database model?

Ans

🎻 1. lı

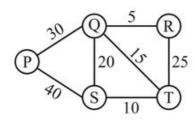
1. Inheritence model

- 2. Object-oriented
- X 3. Network
- X 4. Relational



Question ID: 275228259

Q.16 Consider the following graph.



What is the weight of minimum spanning tree?

Ans

- **X** 1. 50
- **X** 2, 70
- **X** 3. 80
- 4. 60

Question ID: 275228243

Q.17 What is the full form of SSL in web development?

Ans

- 1. Secure Sockets Layer
- X 2. Security Socket Layout
- X 3. Secure Server Layout
- X 4. Secure Server Layer

Question ID: 275228261

Q.18 Express the given statement in FOPL?

Statement: Any two numbers can be added together.

Ans

- $\times$  1.  $(\forall x)(\exists y)(\forall z)(x + y = z)$
- $\checkmark$  2.  $(\forall x)(\forall y)(\exists z)(x + y = z)$
- X = (3x)(yy)(3z)(x + y = z)
- $\times$  4  $(\exists x)(\exists y)(\forall z)(x + y = z)$

Question ID: 275228247

Q.19 What is the full form of LISP Programming Language?

Ans

- X 1. Language Processing
- X 2. Limited Processing
- 3. List Processing
- X 4. Least Processing

	X 2. Data Acquisition, Feature Extraction, Classification, Matching	FRESHERS NOW
	X 3. Feature Extraction, Data Acquisition, Matching, Classification	
	4. Data Acquisition, Feature Extraction, Matching, Classification	
		Question ID : 275228248
	on : <b>Discipline9</b>	
Q.1	The frequency which is used for transmission of signal from the sat station receive is known as	ellite to earth
Ans	X 1. forward link frequency	
	2. downlink frequency	
	3. uplink frequency	
	X 4. backlink frequency	
		Question ID : 275228276
		200000113 1 21 022 021 0
Q.2	Newton – Raphson method is used to compute a root of the equation with 1 as the initial value. The approximate value after one iteration	$n x^2 + 4x - 9 = 0$ is
Ans	X 1. 1.528	
	× 2. 0.429	
	<b>√</b> 3. 1.571	
	<b>X</b> 4. 1.429	
		Question ID : 275228279
		Question ID . 213220213
Q.3	An image may be defined as a 2-dimmensional function f(x, y) where and the amplitude of the function is called of the image.	e x and y are
	y)	go at the point (x)
Ans	1. intensity; brightness	
	2. intensity; coordinates	
	3. coordinates; intensity	
	X 4. brightness; coordinates	
		Question ID : 275228281
Q.4	computing is a model in which components of a software sy among multiple computers.	stem are shared
Ans	1. Distributed	
	× 2. Simulation	
	X 3. Abstraction	
	X 4. Private	
		Question ID : 275228265

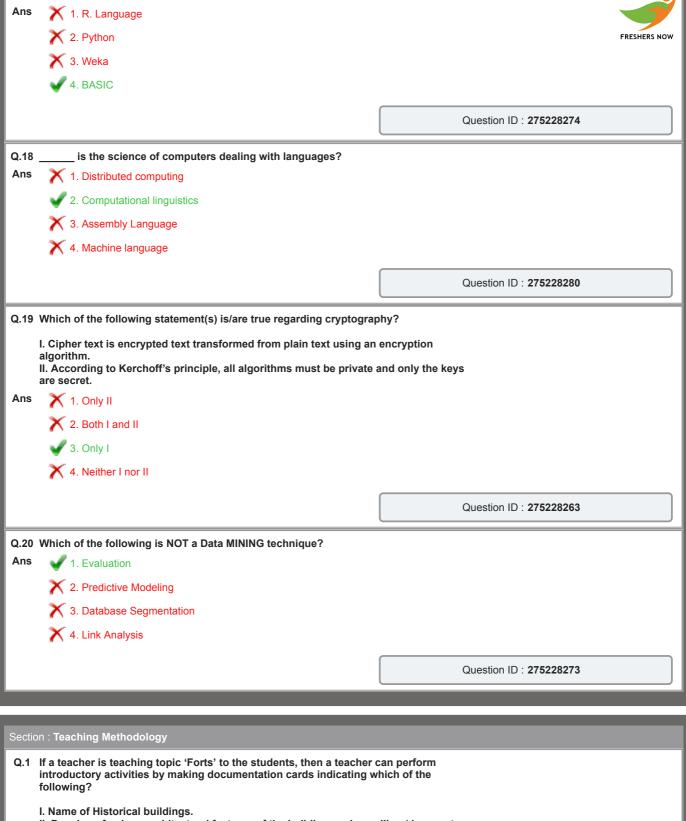
Q.20 Which of the following is the correct sequence in Pattern Recognition process?

Ans 1. Matching, Data Acquisition, Feature Extraction, Classification

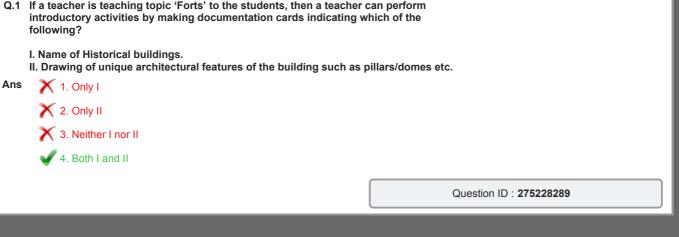
Ans	1. Multiple Interrupt stream and Single Data stream		
	X 2. Many Interrupt stream and single digital stream		FRESHERS NOW
	X 3. Many Instruction stream and Single Digital stream		
	4. Multiple Instruction stream and single Data stream		
		Question ID : 275228272	
		Question ID . 21 3220212	
Q.6	is loosely coupled system and is tightly coupled sy	rstem.	
Ans	<ul> <li>1. Distributed processing; Parallel processing</li> </ul>		
	2. Uniprocessing; Real Processing		
	X 3. Distributed processing; Uniprocessing		
	X 4. Batch processing; Parallel processing		
		Question ID : 275228271	
	Runge – Kutta method is used for		
Ans	1. ordinary differential equation		
	2. integration		
	3. solution of system of linear equation		
	X 4. root finding		
		Question ID : 275228278	
Q.8 Ans	Which of the following is not a example of Distributive computing	?	
Alls	1. Parallel computing		
	<ul><li>2. Internet</li><li>3. Mobile network</li></ul>		
	3. Mobile network  4. LAN network		
	4. LAN Network		
		Question ID : 275228266	
0.9	What is axon in Neural Networks?		
Ans	X 1. It is a collection of neurons.		
	X 2. It is a small cell which contain electric signal.		
	X 3. It is a small cell used to perform basic logical operations.		
	4. It is a long cylindrical connection that carries impulses from the	e neurons.	
		Question ID : 275228270	
Q.10	is an imitation of the dynamics of a real world process or s	ystem over time.	
Ans	X 1. Copying		
	2. Simulation		
	X 3. Cryptography		
	X 4. Designing		
		Question ID : 275228268	
		Question ID . 2/3220208	

Q.5 What is the full form of MISD?

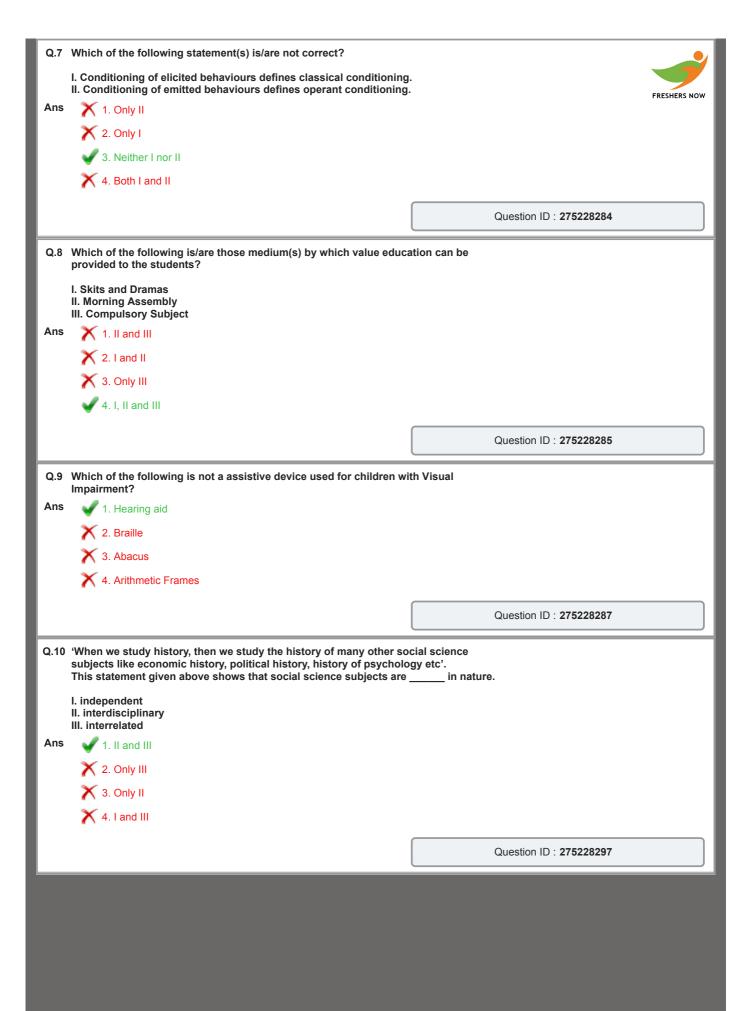
	Which of the following is not a Cipher mode in Cryptography?	
Ans	1. Stem Cipher Mode	
	2. Cipher Feedback Mode	FRESHERS NOW
	3. Cipher Block Chaining Mode	
	X 4. Electronic Code Book Mode	
		Question ID : 275228264
l '	What is a neuron in Neural Networks?	
Ans	1. A neuron is a small cell that sends electric impulses to ions.	
	2. A neuron is a cell that send electromagnetic signals to axons.	
	3. A neuron is a cell which has the capability to predict the situation	n from past trends.
	4. A neuron is a small cell that receives electrochemical signals from	m various sources
	and transmit electrical impulses to other neurons.	
		Question ID : 275228269
0.42	Routing algorithm which do not base their routing decisions on mea	seuromonte or
Q.13	estimates of the current traffic and topology belongs to which categ	
Ans	1. Adaptive algorithm	
	2. Back propagation algorithm	
	3. Non-adaptive algorithm	
	X 4. Greedy algorithm	
		Question ID : 275228277
		Question ID . 2/52262//
Q.14	Which of the following is not an example of Simulation and Modeling	g?
Ans	1. Computer table	
	2. Video game	
	X 3. Flight simulator	
	X 4. Logical gates	
		Question ID : 275228267
		Question ID . 2/922020/
Q.15	Sending incoming packet to every outgoing line except the one it ar	rived is known as
Ans	1. message calling	
	2. flooding	
	X 3. scratching	
	X 4. congestion	
	4. Congestion	
		Question ID : 275228275
0.46	The process which digitized amplitude value of the image during di	sital conversion of
۱۵۰۱۵	The process which digitized amplitude value of the image during dig an image is known as	JILGI CONVENSION OI
Ans	1. extraction	
	2. Quantization	
	X 3. filtering	
	X 4. sampling	
		Ougoties ID : 07F00000
		Question ID : 275228282

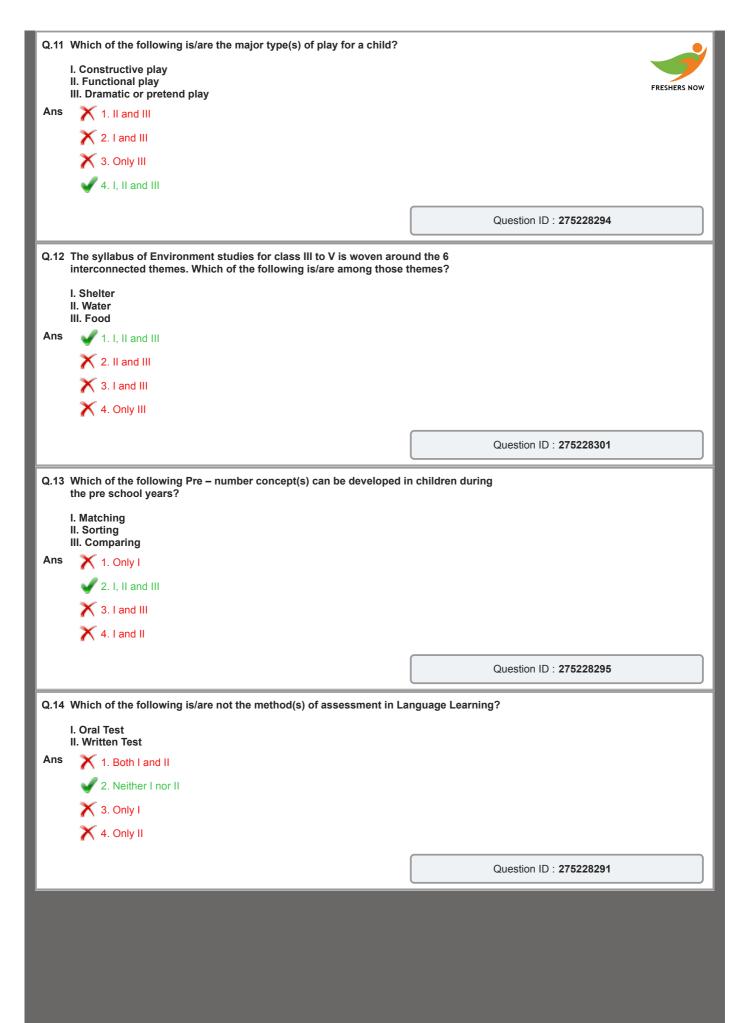


Q.17 Which of the following is NOT a Data MINING Language?



Q.2 Which of the following can help a teacher to make teaching - learning process participatory in social science? I. By arranging debate, discussions on emerging social issues for example: dowry, FRESHERS NOW population growth etc. II. By teaching students that how to cooperate with each other. Ans X 1. Only II 2. Both I and II 3. Only I X 4. Neither I nor II Question ID: 275228298 Q.3 Which of the following is/are the instructional objective(s) of mathematics? I. To apply addition of two digit numbers in solving problems of daily life. II. To apply formula of direct variable to solve simple problems of day to day life. Ans X 1. Only I 2. Both I and II X 3. Neither I nor II X 4. Only II Question ID: 275228302 Q.4 In which stage of cognitive development of Piaget's theory, a child understands and carry out calculations involving proportions? Ans 1. Concrete Operation Period 2. Sensory Motor Period 3. Formal Operation Period 4. Pre – operation Period Question ID: 275228296 Q.5 While teaching a children how to read, which of the following things need to be kept in mind? I. The material used must be meaningful and of the level of the child. II. The material should be in a language that the child is familiar with. Ans 1. Only I 2. Neither I nor II 3. Only II 4. Both I and II Question ID: 275228292 Q.6 Which of the following is/are the role(s) of teachers in the Theme Based Integrated Early Childhood and Care Education Programme? I. Observe children to identify their interests, needs and capabilities and the pace of their development. II. Create nurturing and positive relationships in the classroom. Ans X 1. Only I 2. Both I and II 3. Neither I nor II X 4. Only II Question ID: 275228293





Q.15	.15 Scientific argument involves three components. Which of the following are these components?		
	I. Hypothesis II. Predictions III. The evidence	F	FRESHERS NOW
Ans	X 1. I and III		
	× 2. I and II		
	✓ 3. I, II and III		
	X 4. II and III		
		Question ID : 275228299	
_		QUESTION ID . 2/3/20233	
Q.16	'Preparing any project in science/mathematics may give pleasure to of which he/she is motivated to undertake similar activities on his/hi statement describes which of the following type(s) of motivation?		
	I. Intrinsic Motivation II. Extrinsic Motivation		
Ans	X 1. Only II		
	× 2. Both I and II		
	✓ 3. Only I		
	4. Neither I nor II		
		Question ID : 275228283	
		QUESTION ID . 2/9220203	
Q.17	addresses to the principle that knowledge arises from experevidence gathered specifically using senses.	ience and	
	I. Skepticism II. Empiricism		
Ans	1. Both I and II		
	2. Neither I nor II		
	✓ 3. Only II		
	X 4. Only I		
		Out of the 17 - 27-22222	
		Question ID : 275228300	
Q.18	Q.18 Which of the following statement(s) is/are not correct about 'Facilitation' in art education?		
	I. Helping the child by giving free access to handling musical instruction for care.  II. Providing lot of art material for helping the child to choose and pi		
Ans	X 1. Only I		
	2. Neither I nor II		
	X 3. Both I and II		
	X 4. Only II		
		Question ID : 275228290	

