

## GOVT, OF NCT OF DELHI

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

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Section: Mental Ability

Q.1 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.2 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?

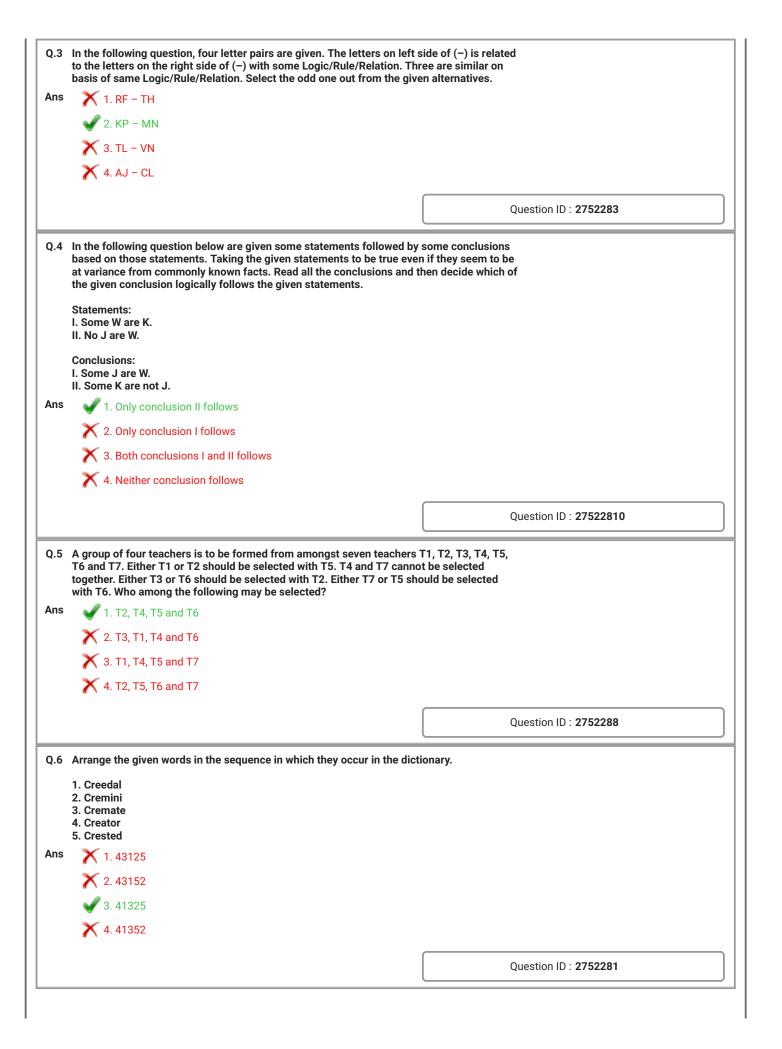
Ans

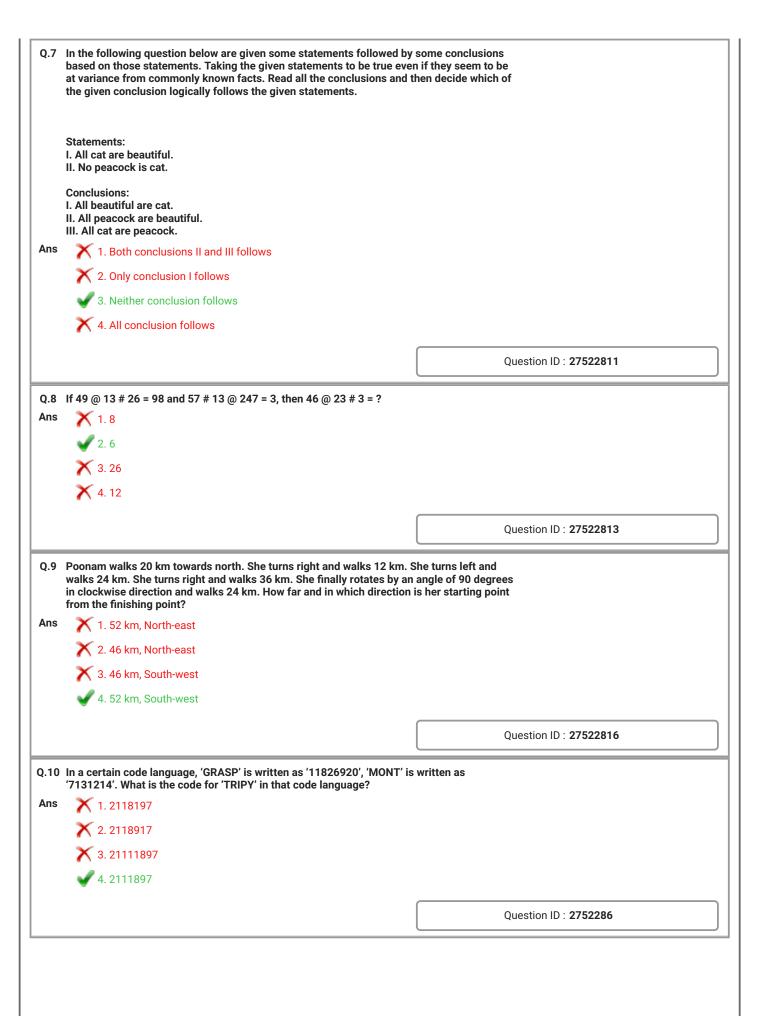
🗙 1. Q + M + N ÷ J

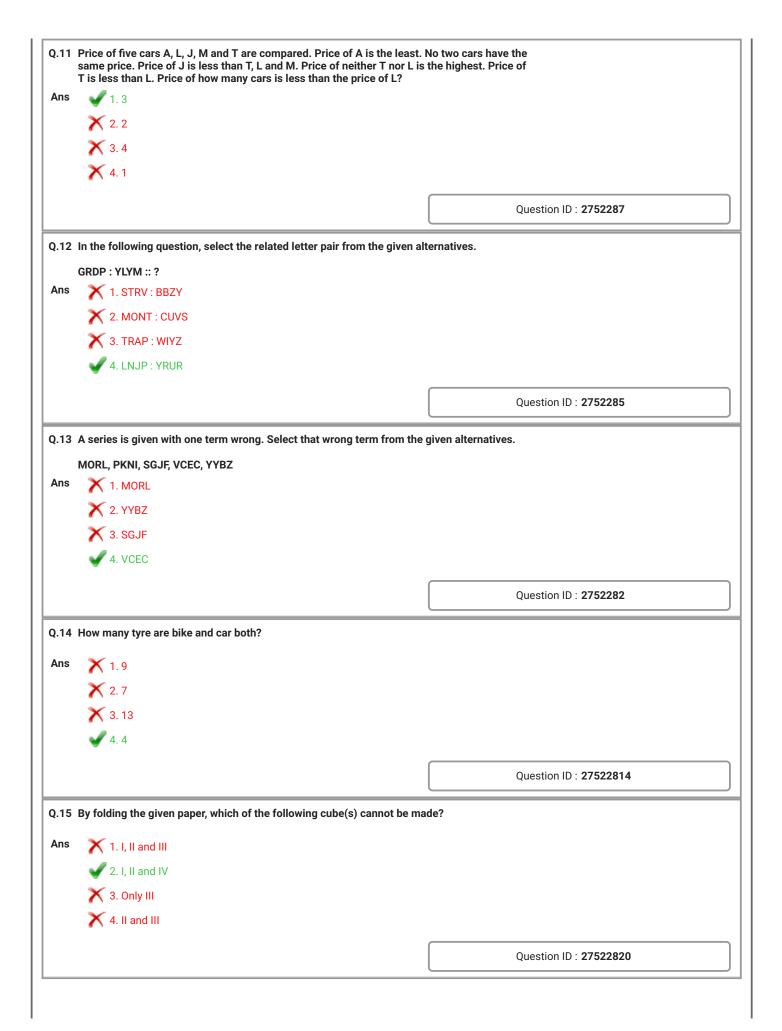
X 2. P + J ÷ N - M ÷ Q

**√** 3. N − M − Q

**X** 4. J ÷ N + M − Q

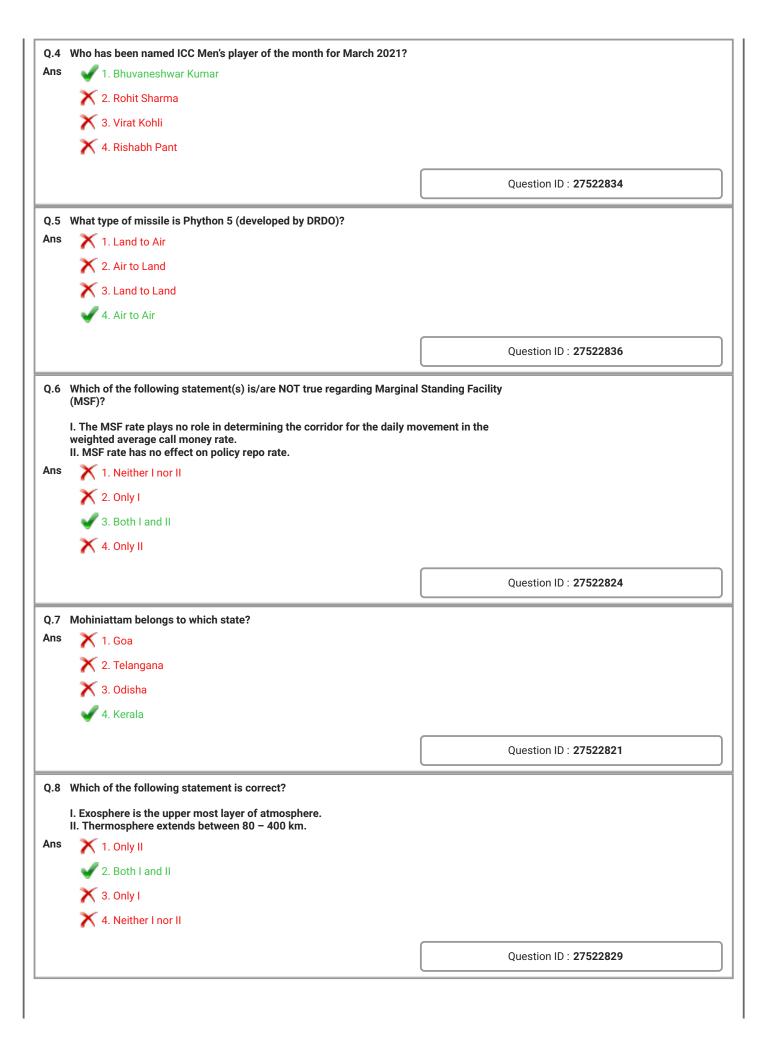


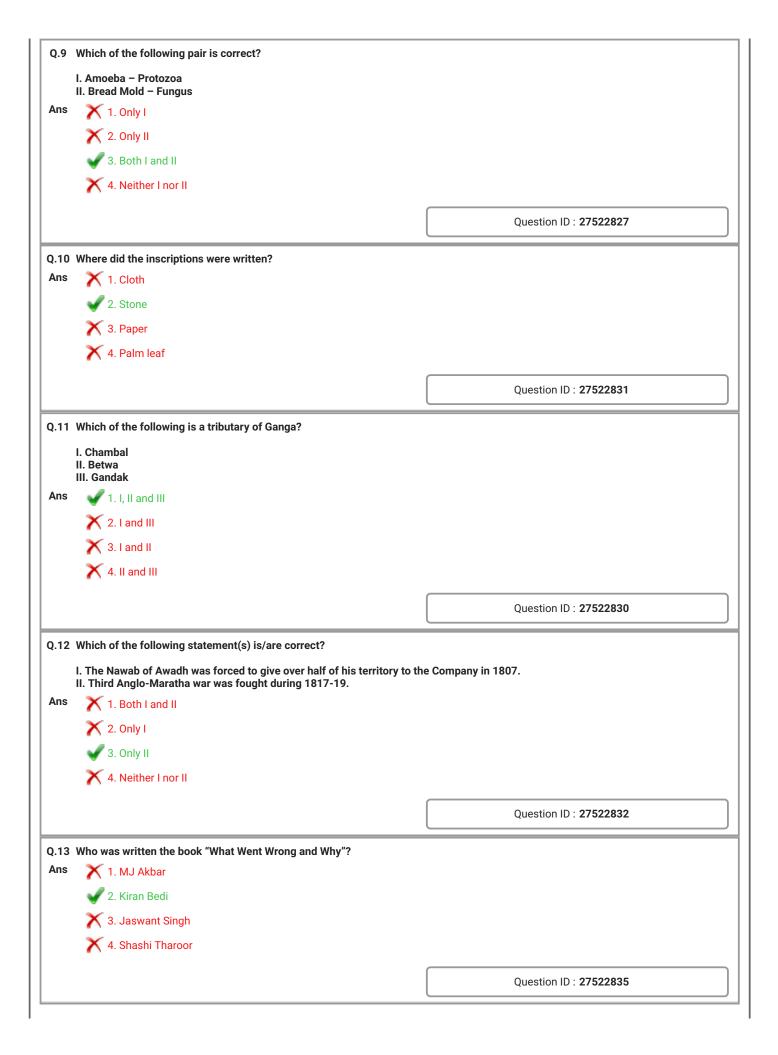


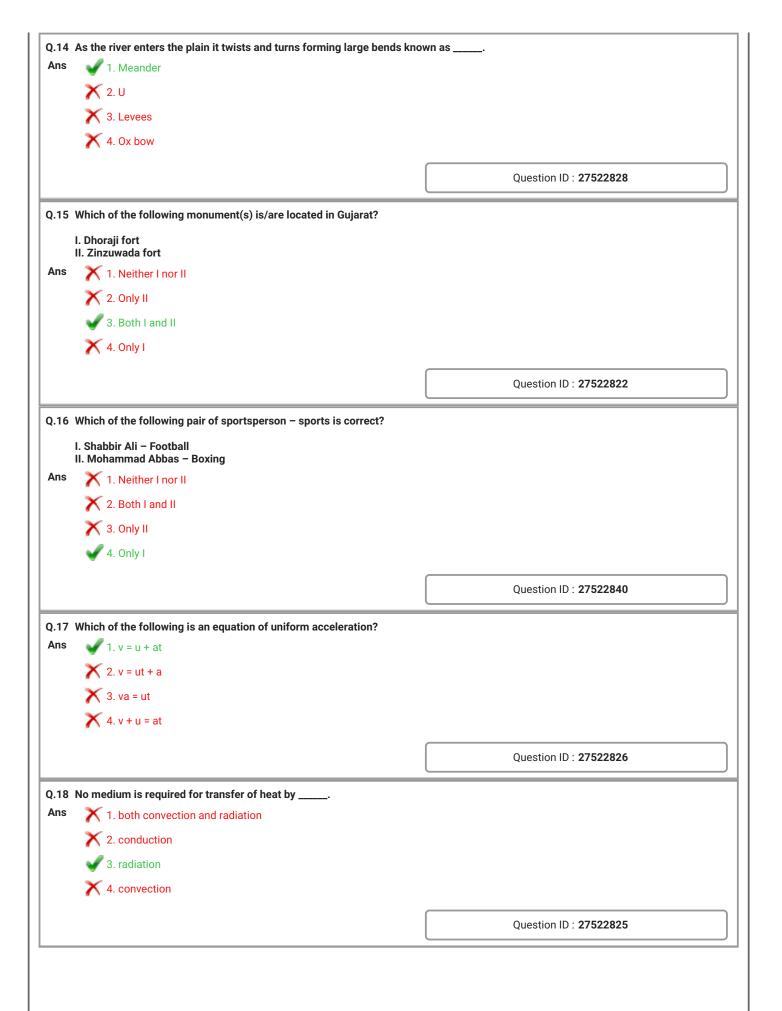


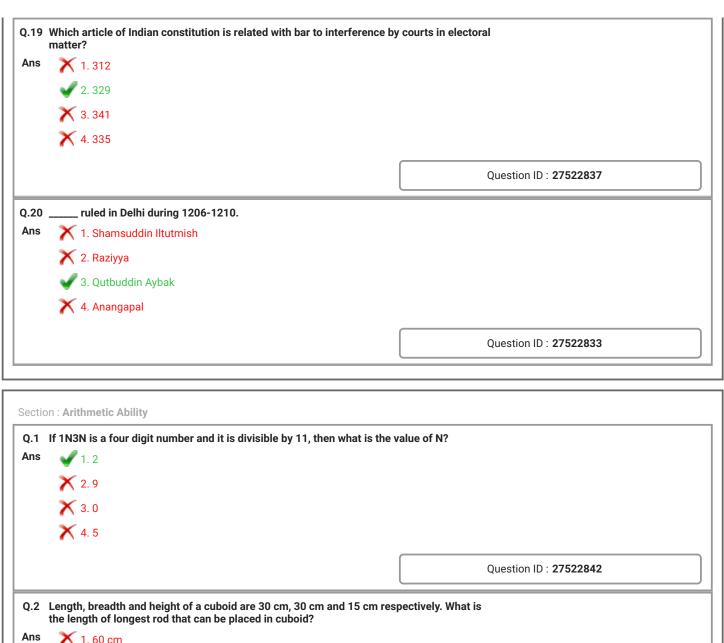
Q.16	Q.16 Identify the letter-cluster that does NOT belong to the following series.		
	BCDE, CEGI, DGIM, EIMQ, FKPU		
Ans	1. DGIM		
	× 2. CEGI		
	X 3. EIMQ		
	X 4. FKPU		
		Question ID : 27522815	
Q.17	Two figures given on the left side of (::) are related with some logic/rule/relation. Select the missing figure on the right of (::) from the given alternatives based on the same logic/rule/relation.		
Ans	<b>√</b> 1.		
	<b>X</b> 2.		
	<b>X</b> 3.		
	<b>★</b> 4.		
		Question ID : 27522818	
Q.18	In the following question, select the related words from the given alternative	atives.	
	Saw: Carpenter:: Knife:?		
Ans	1. Chef		
	× 2. Waiter		
	X 3. Plate		
	X 4. Restaurant		
		Question ID : <b>2752284</b>	
Q.19	19 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	1. South-east		
	× 2. South		
	X 3. West		
	X 4. South-west		
		Question ID : <b>27522817</b>	

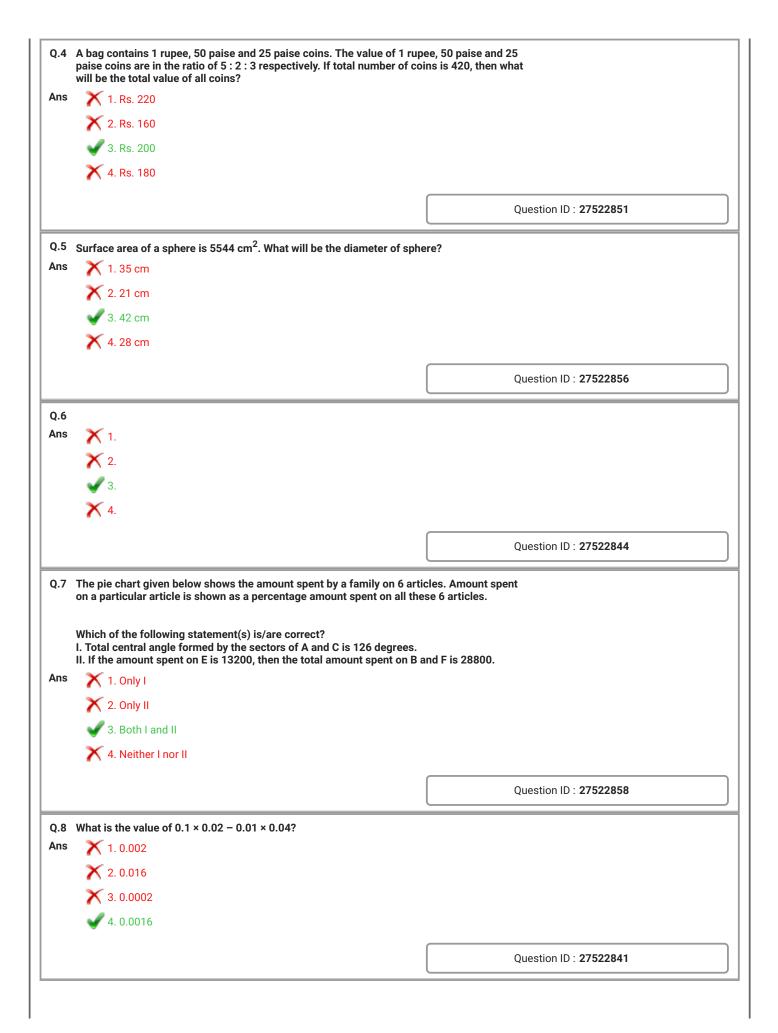
<ul> <li>Q.20 In the following question, four number pairs are given. The number on left side of (-) is related to the number of the right side of (-) with some Logic/Rule/Relation. Three are similar on basis of same Logic/Rule/Relation. Select the odd one out from the given alternatives.</li> <li>Ans  1.79 - 172</li> <li>2.53 - 88</li> </ul>	
<ul><li>X 3. 83 − 121</li><li>X 4. 47 − 121</li></ul>	
	Question ID : 27522812
Section : General Awareness	
Q.1 Who won the ICC Under19 World Cup 2020?	
Ans 1. England	
2. Bangladesh  3. India	
3. India  4. Australia	
4. Australia	
	Question ID : <b>27522839</b>
Q.2 Which of the following is NOT a Direct tax?	
I. GST II. Wealth tax III. Gift tax	
Ans X 1. I, II and III	
× 2. I and II	
✓ 3. Only I	
X 4. II and III	
	Question ID : <b>27522823</b>
Q.3 Which amendment of Indian constitution abolished the election tribu	ınals?
Ans X 1.11	
2.16	
<b>√</b> 3. 19	
<b>X</b> 4. 25	
	Question ID : 27522838

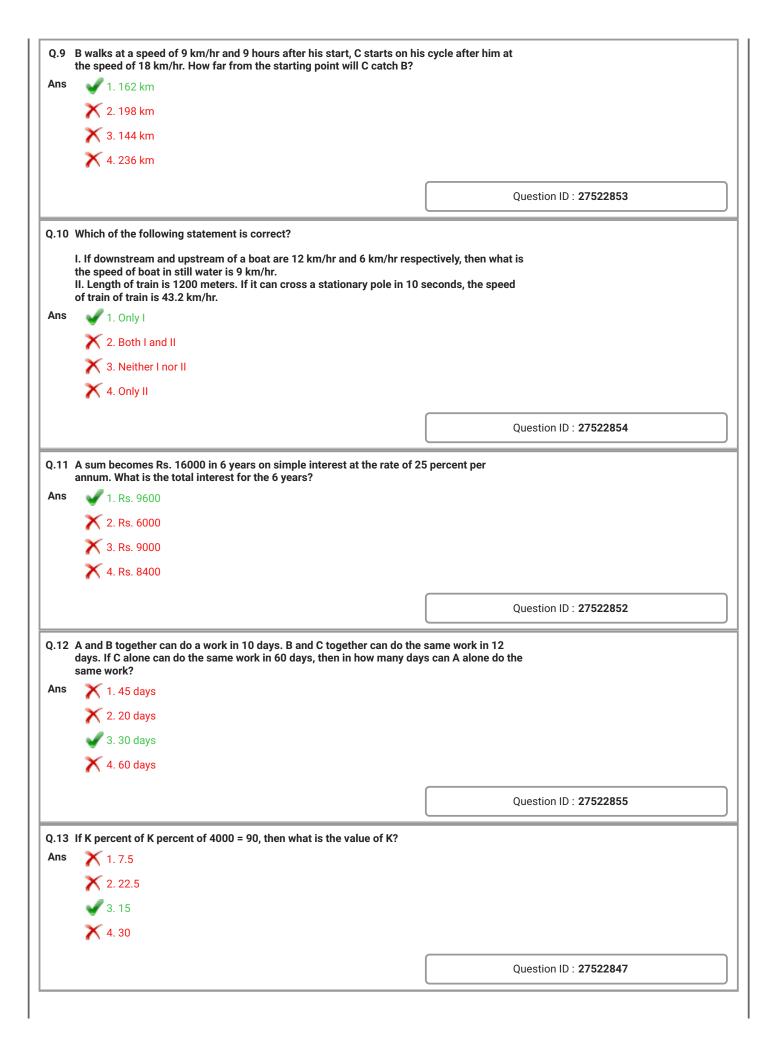


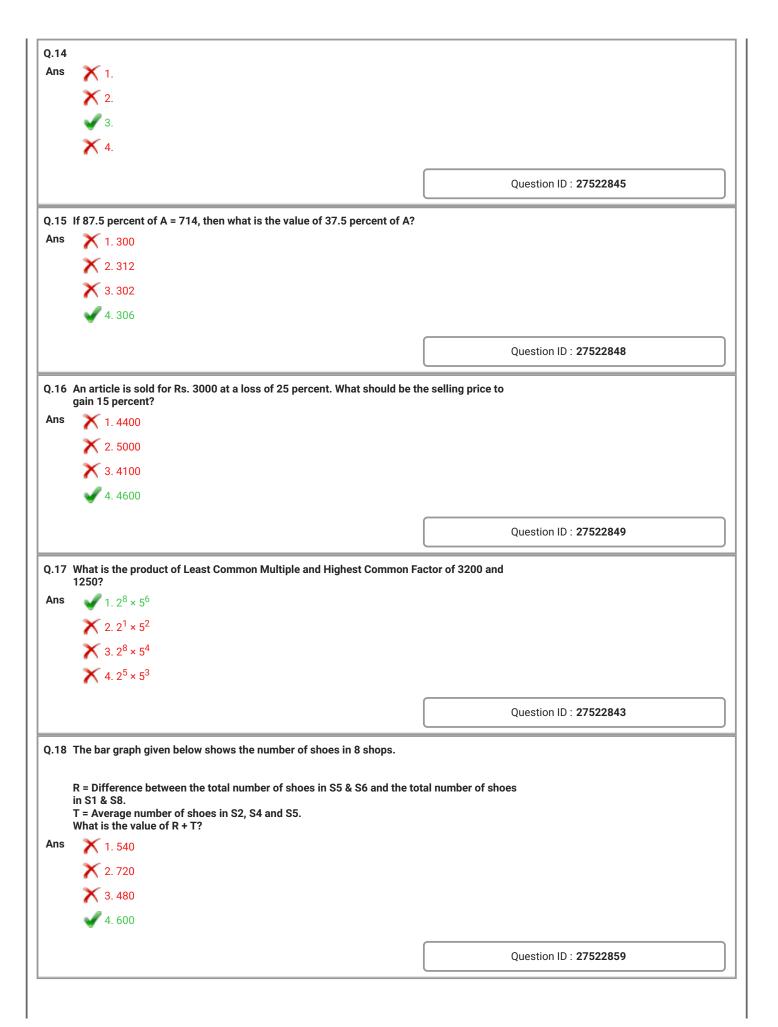


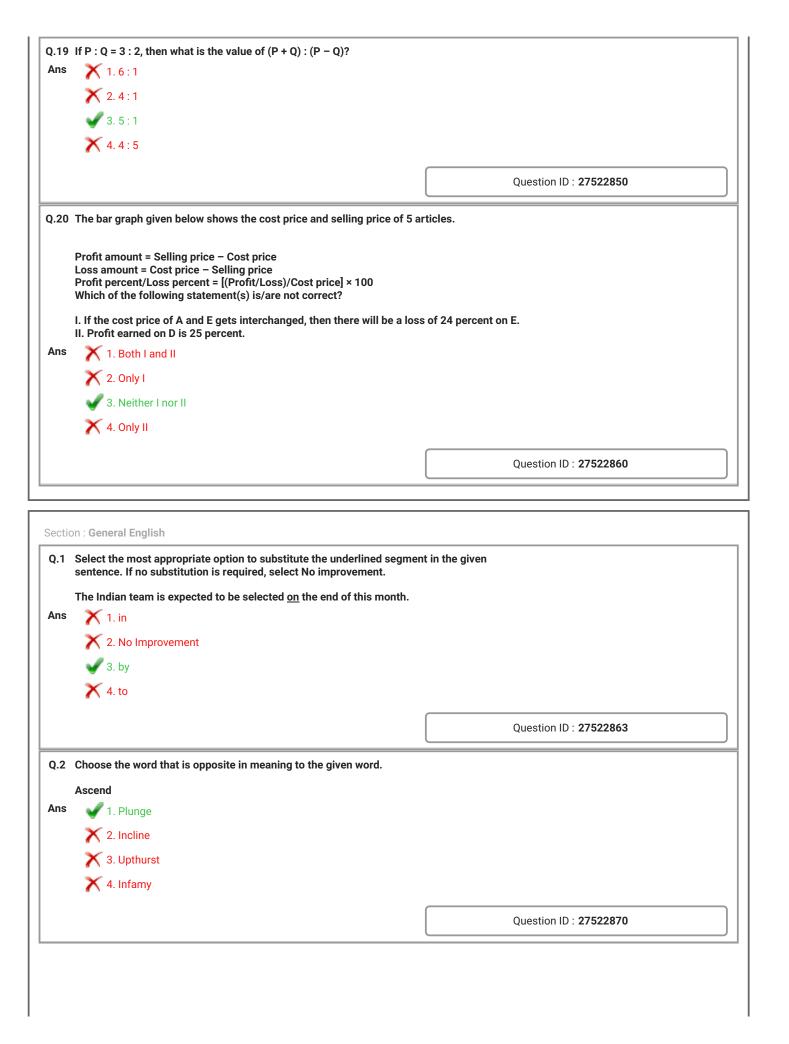


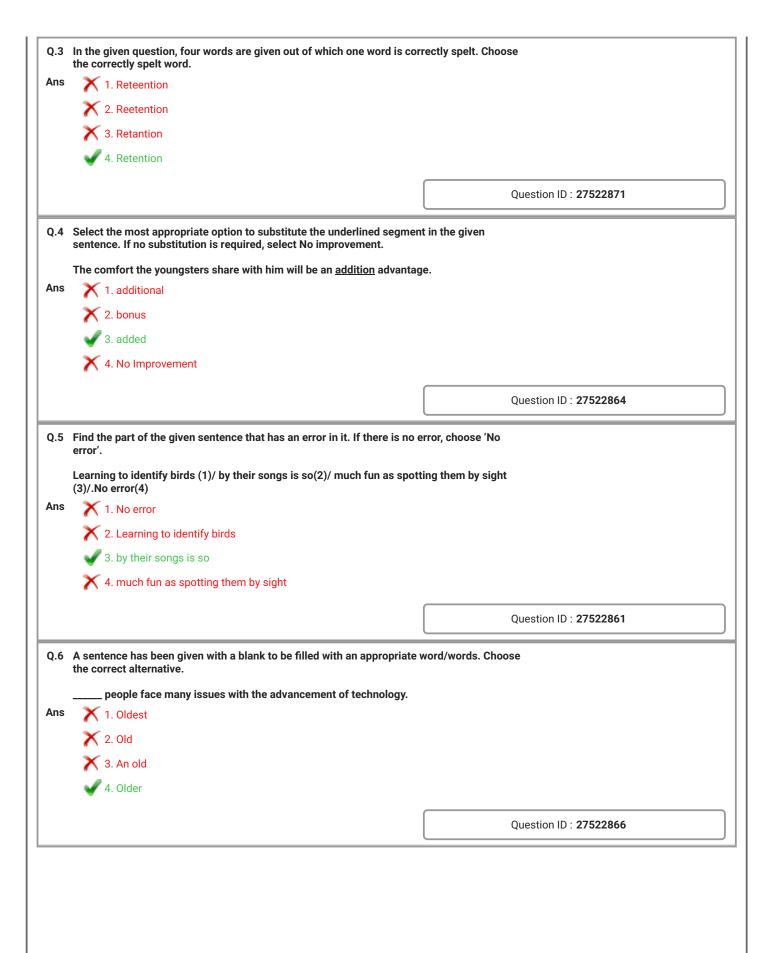


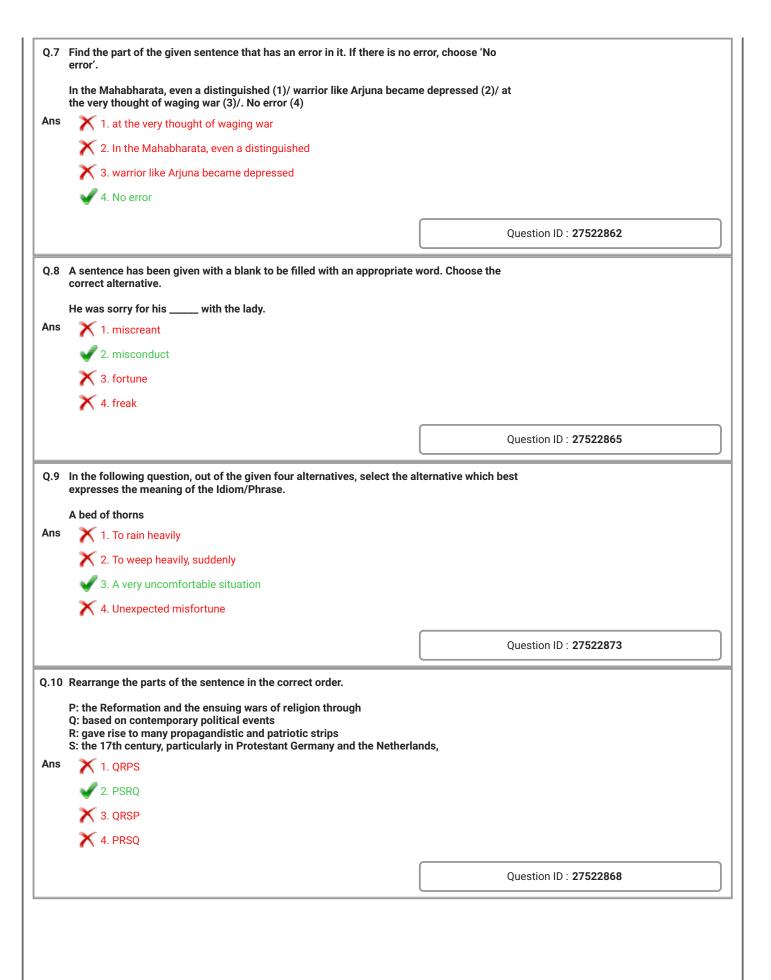


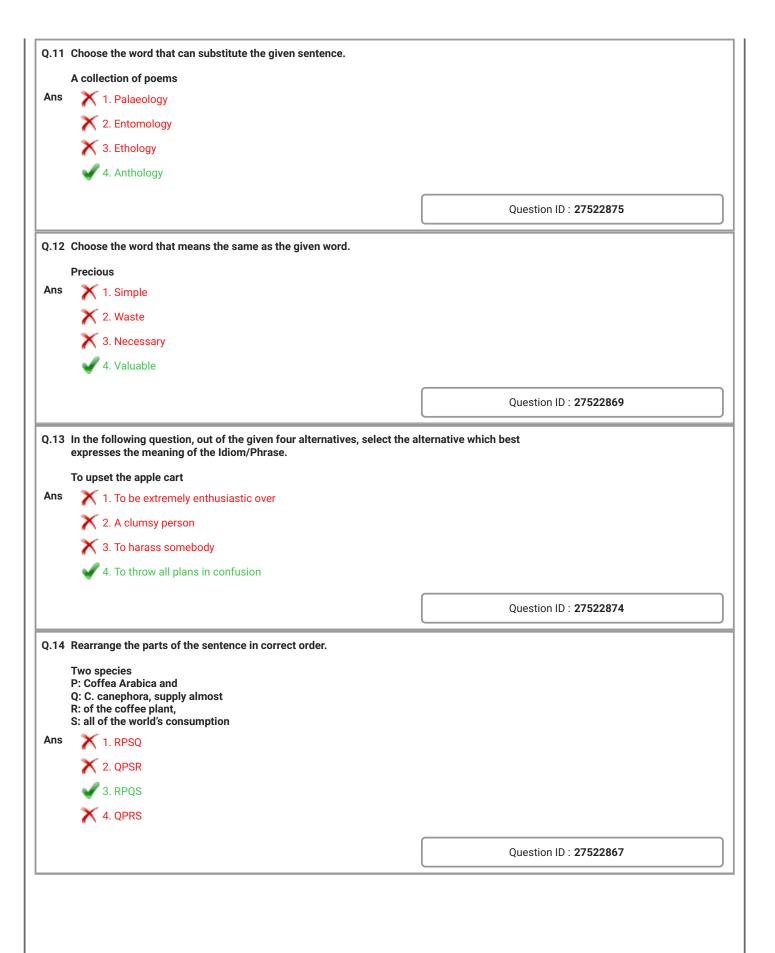












Q.15 In the given question, four words are given out of which one word is incorrectly spelt. Choose the incorrectly spelt word.

Ans

1. Tampoline

X 2. Concussion

X 3. Creation

X 4. Mistaken

Question ID: 27522872

## 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.

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 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.

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

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

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

Read the following information carefully and answer the given questions.

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### SubQuestion No: 17

Q.17 Which of the following words best expresses the true meaning of the word 'confer'?

Ans



1. Consult





3. Refuse

X 4. Withhold

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SubQuestion No: 18

Q.18 What can be the suitable title for the passage?

Ans

1. What is Bioluminescence?

2. Why Bioluminescence?

3. Organisms and their light

4. Role of bioluminescence

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



Dirdo



o =



1. Fish

Read the following information carefully and answer the given questions.

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### SubQuestion No: 20

Q.20 Which process is responsible for the emission of bioluminescence?

Ans

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

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

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

X 4. Conversion of radiant energy to chemical energy directly and virtually.

Question ID: 27522881

## Section: General Hindi

## Q.1 निम्नलिखित शब्द का पर्यायवाची नहीं हैं, ज्ञात कीजिए।

दीपक

Ans

🗙 १. प्रदी

X 2

2. दीया

X

**√** 4 :

Question ID: 27522886

## Q.2 दिए गए शब्द का प्रत्यय ज्ञात कीजिए।

तैराक

Ans

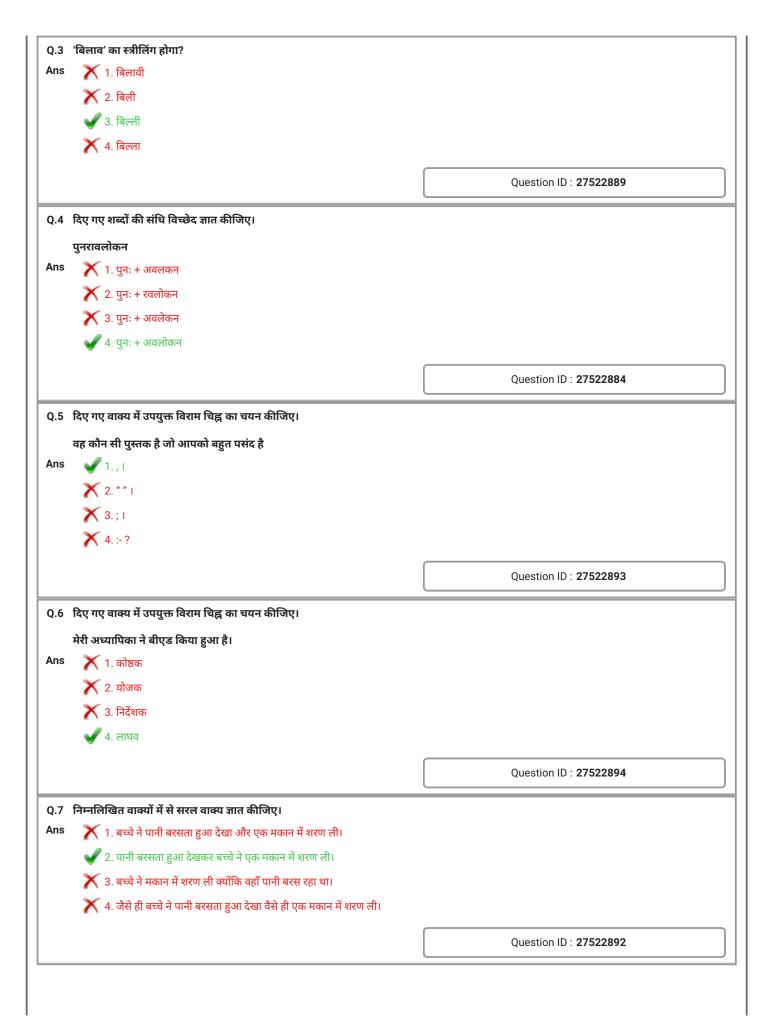
**X** 1. राव

X 2.7

¥ 2 21

📉 ३. अव

🖤 4. आव



Ans		
🔀 2. नौकारी		
💢 3. नोकरी		
💢 4. नोकरि		
	Quartien	ID : <b>27522887</b>
	Question	10 . 27322007
Q.9 दिए गए शब्द युग्म	का सही शब्द युग्म ज्ञात कीजिए।	
अहम् : अहम		
Ans 🧹 1. अहंकार	: महत्वपूर्ण	
🗶 2. ढेर : आव	कर	
🗙 ३. महत्वपूण	र्ग : आकर	
🗙 ४. अहंकार	: ढेर	
	Question	ID : <b>27522888</b>
	question	15 . 27 322333
	<b>गों में से शुद्ध वाक्य का चयन की</b> जिए।	
Ans 🔀 1. वो भूख ग		
🗸 2. वह भूख		
🗙 3. वह भुक		
🗶 ४. वह भूख	में तड़प रहा है।	
	Question	ID : <b>27522891</b>
Q.11 'भिखारी को रोटी व	दो' कौन सा कारक है?	
Ans 🗸 1. संप्रदान		
🗙 २. अपादान	T	
🗙 3. कर्ता		
🗶 4. कर्म		
	Question	ID : <b>27522890</b>
	***************************************	
Q.12 ानम्नालाखत प्रश्न म सर्वश्रेष्ठ रूप से व्यन्	में, दिए गए चार विकल्पों में से, उस विकल्प का चयन करें जो दिए गए मुहावरे के अर्थ को क्त करता है।	
उड़ती खबर		
Ans 🧹 1. अफवाह		
🗶 २. अपना म		
💢 3. बढ़-चढ़व	कर बातें करना	
🗶 4. दुष्टों का र	नेता	
		ID : 07500000
	Question	ID : <b>27522896</b>

Q.13	2.13  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. क्रोधित होना		
	🗙 2. शांत करना		
	🗸 3. कठिन जाँच		
	🗙 4. परिश्रम करना		
		Question ID : 27522895	
Q.14	दिए गए शब्द का उपसर्ग ज्ञात कीजिए।		
	दुबला		
Ans			
	🗙 2. दब		
	🗙 3. दुब		
	🗸 ४. दु		
		Question ID : 27522882	
Q.15	Q.15  दिए गए वाक्यांश के लिए उचित शब्द का चयन कीजिए।		
	जिसके समान कोई दूसरा न हो।		
Ans			
	🗙 2. अकल्पनीय		
	🗙 3. चमत्कारी		
	🗙 ४. द्वितीय		
		Question ID : 27522885	

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 जिटल समस्याएँ हैं जो देश के विकास में अवरोध उत्पन्न करती हैं। जनसंख्या वृद्धि भी देश की इन्हीं जिटल 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 वाला देश है। पंरतु जिस गित से हमारे देश की जनसंख्या वृद्धि 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 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?

Ans

🗙 1. कुपोषण

\chi 2. स्वर

🗙 3. भूखमरी

💞 ४. अशिक्षा

Question ID: 275228101

## 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 जिटल समस्याएँ हैं जो देश के विकास में अवरोध उत्पन्न करती हैं। जनसंख्या वृद्धि भी देश की इन्हीं जिटल 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 वाला देश है। पंरतु जिस गित से हमारे देश की जनसंख्या वाला देश है। पंरतु जिस गित 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 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 कितनी प्रतिशत जनसंख्या गरीबी रेखा के नीचे जीवन-यापन कर रही है?

Ans

1.30

2. 40

3. 50

**X** 4. 60

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 जिटल समस्याएँ हैं जो देश के विकास में अवरोध उत्पन्न करती हैं। जनसंख्या वृद्धि भी देश की इन्हीं जिटल 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 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: 18

## Q.18 उपर्युक्त गद्यांश का उपयुक्त शीर्षक क्या होगा?

Ans

🗹 1. जनसंख्या वृद्धि : एक जटिल समस्या

X 2. जनसंख्या वृद्धि : एक लाभ

X 3. जनसंख्या वृद्धि : शिक्षा का आभाव

X ४. जनसंख्या वृद्धि : भौतिक आवश्यकताओं की पूर्ति

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 जिटल समस्याएँ हैं जो देश के विकास में अवरोध उत्पन्न करती हैं। जनसंख्या वृद्धि भी देश की इन्हीं जिटल 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 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: 19

Q.19 हमारे देश की जटिल समस्या क्या है, जो देश के विकास में अवरोध उत्पन्न करती है?

Ans

🗶 1. शिक्ष

🗶 2. गरीब

💜 ३. जनसंख्य

🗶 ४ संघर्ष

एक गद्यांश दिया गया है। गद्यांश के आधार पर पाँच प्रश्न दिए गए हैं। गद्यांश को ध्यानपूर्वक पढें 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 पश्चात भारत सबसे अधिक जनसंख्या वाला देश है। पंरतू 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, रूढ़िवादिता तथा संकीर्ण विचार आदि जनसंख्या वृद्धि के प्रमुख कारण हैं। देश मे 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 संपूर्ण विश्व में किस देश की सर्वाधिक जनसंख्या है?

Ans

1. फ्रांस

2. जापान



🗙 ४. भारत

Question ID: 27522899

Section: Discipline1

Q.1 What is the value of (3564)<sub>8</sub> + (323232)<sub>4</sub>.

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





3. (1662)<sub>16</sub>

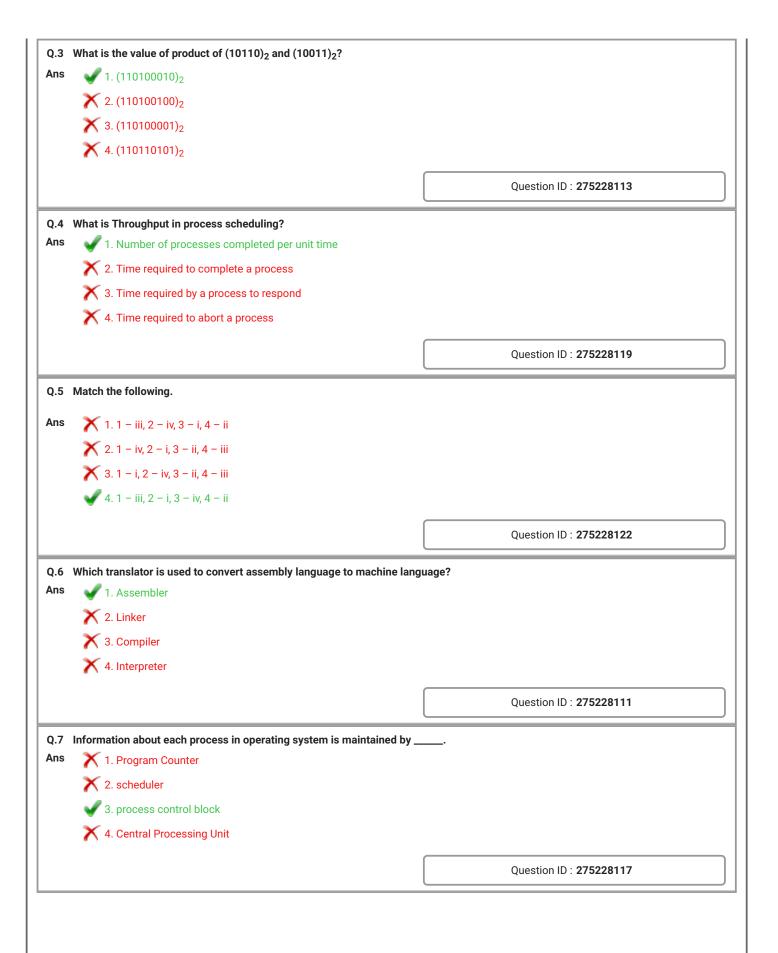
**X** 4. (1762)<sub>16</sub>

Question ID: 275228114

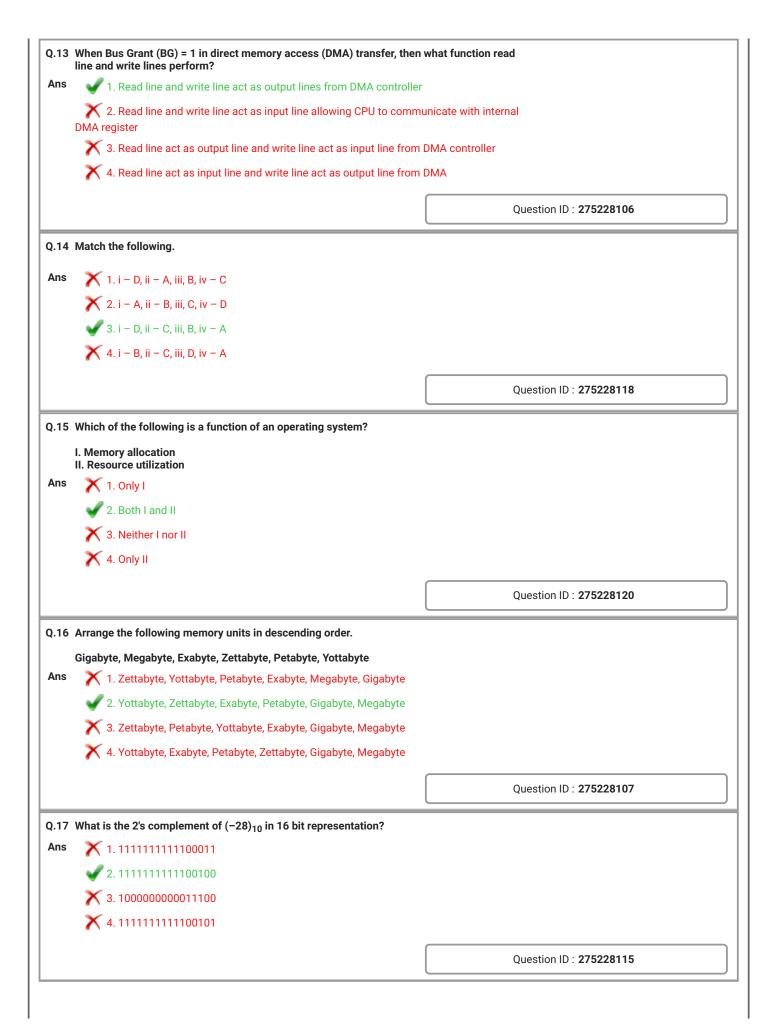
Q.2 How many 16 K × 1 bit RAM chips are needed to provide a memory capacity of 128 K × 1

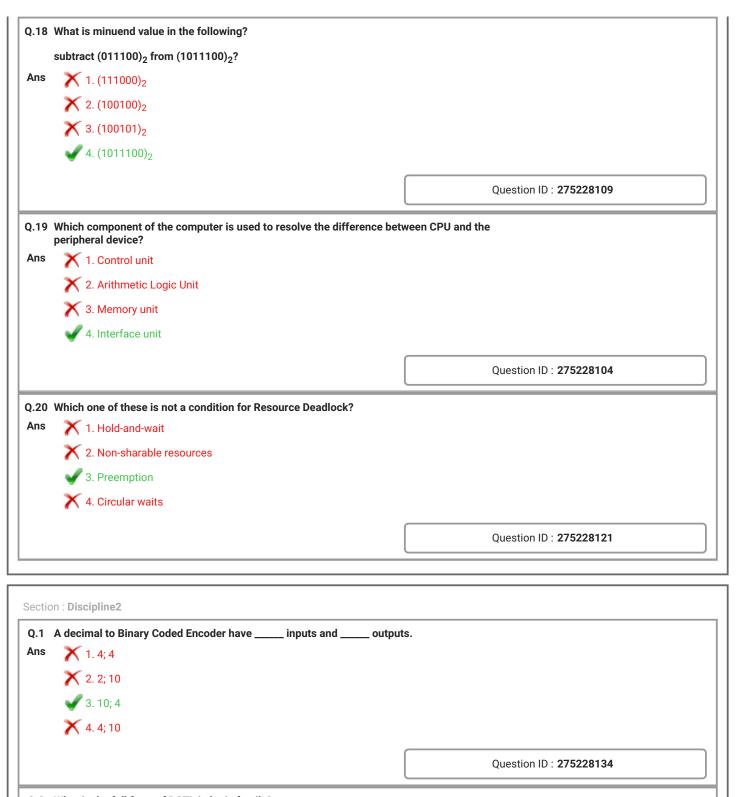
Ans

X 1. 128



# Q.8 What is the function of data input command in I/O command? Ans 1. It cause the interface to respond by transferring data from one of its register to bus 2. Activate the peripheral and to inform it what to do X 3. To check status conditions in the interface and the peripheral \chi 4. It cause the interface to respond by transferring data from bus into one of its registers Question ID: 275228105 Q.9 What is the function of the program counter register? Ans 1. It holds the address of next instruction X 2. It holds the address of previous instruction X 3. It holds the operand address 4. It holds the address of current instruction. Question ID: 275228103 Q.10 What is 6's complement of (1543)<sub>7</sub> of the computer? **X** 1. (5132)<sub>7</sub> **2**. (5123)<sub>7</sub> **X** 3. (6132)<sub>7</sub> **X** 4. (5432)<sub>7</sub> Question ID: 275228116 Q.11 When n bits are used to represent an operation (op) code, then how many different operations a computer can perform? Ans 1. 2<sup>n</sup> operations 2. 2/n operations X 3. n operations X 4. 2 × n operations Question ID: 275228112 Q.12 Which component of computer act as nervous system? X 1. Arithmetic Logic Unit 2. Control unit X 3. Input unit 4. Storage unit Question ID: 275228110





Q.2 What is the full form of DCTL in logic family?

Ans 1. Direct – circuit threshold logic

X 2. Diode – coupled transistor logic

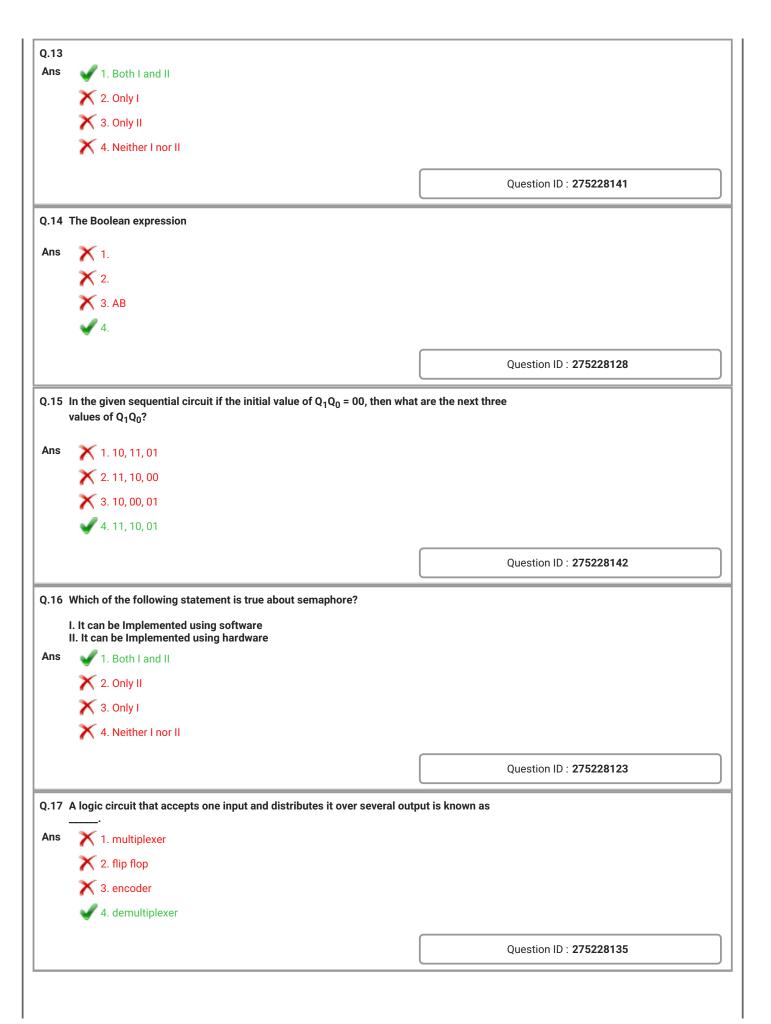
3. Direct – coupled transistor logic

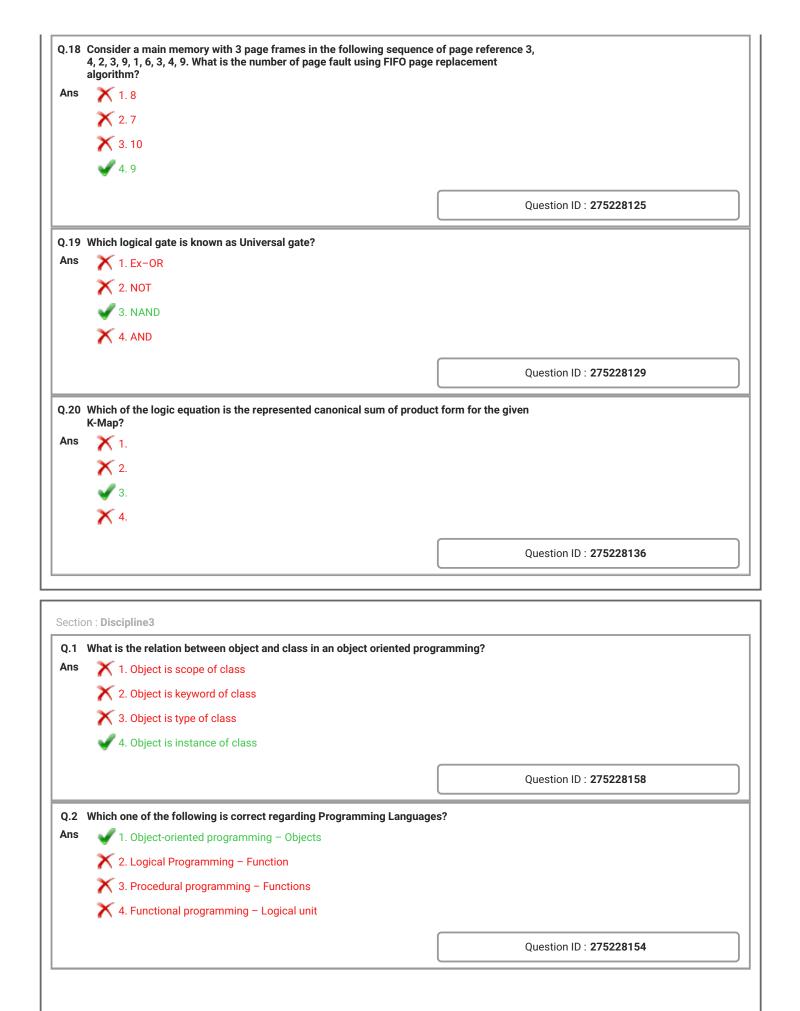
X 4. Direct – circuit transistor logic

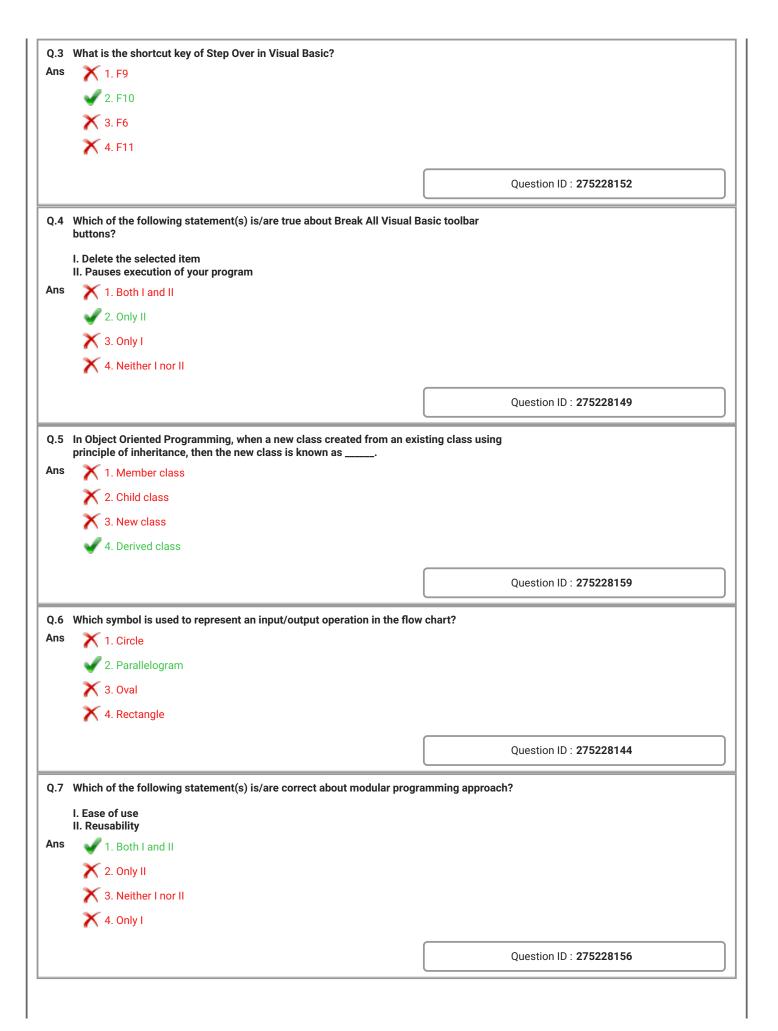
Ans	$\sqrt{1.2^{\text{N}}} = \text{M}$	
	× 2. 2M = N	
	$X = 3.2^{M} = N$	
	<b>X</b> 4. 2N = M	
		0 11 10 07500000
		Question ID : 275228138
Q.4	A product of sum (POS) form of logic function consist of only whi (SOP) form of logic function consist of only	le a sum of product
Ans	1. miniterms; minitersm	
	× 2. maxterms; maxterms	
	3. maxterms; miniterms	
	X 4. miniterms; maxterms	
	•	
		Question ID : <b>275228133</b>
Q.5	A free list contains three memory areas of sizes 6 KB, 15 KB and 12 KB. memory requests are for 10 KB, 2 KB and 14 KB. Which of the memory at that would be able to accommodate all the three requests?	
Ans	1. Best Ht	
	2. Next Fit	
	X 3. First Fit	
	X 4. Worst Fit	
		Question ID : <b>275228124</b>
Q.6 Ans	How many rows are there in a truth table having 'n' variables?	
Alla	<b>X</b> 1. 2n	
	<b>X</b> 2. log₂n	
	<b>X</b> 3. n <sup>2</sup>	
	<b>√</b> 4. 2 <sup>n</sup>	
		Question ID : <b>275228130</b>
Q.7	Which one of the following is not a condition for process state transition	n from running state
Ans	to wait state?	
Alls	1. If a higher priority process arrived	
	2. If a lower priority process arrived	
	3. If a process request an Input/Output operation	
	X 4. If a process waits for some action performed by another proces	s 
		Question ID : <b>275228126</b>

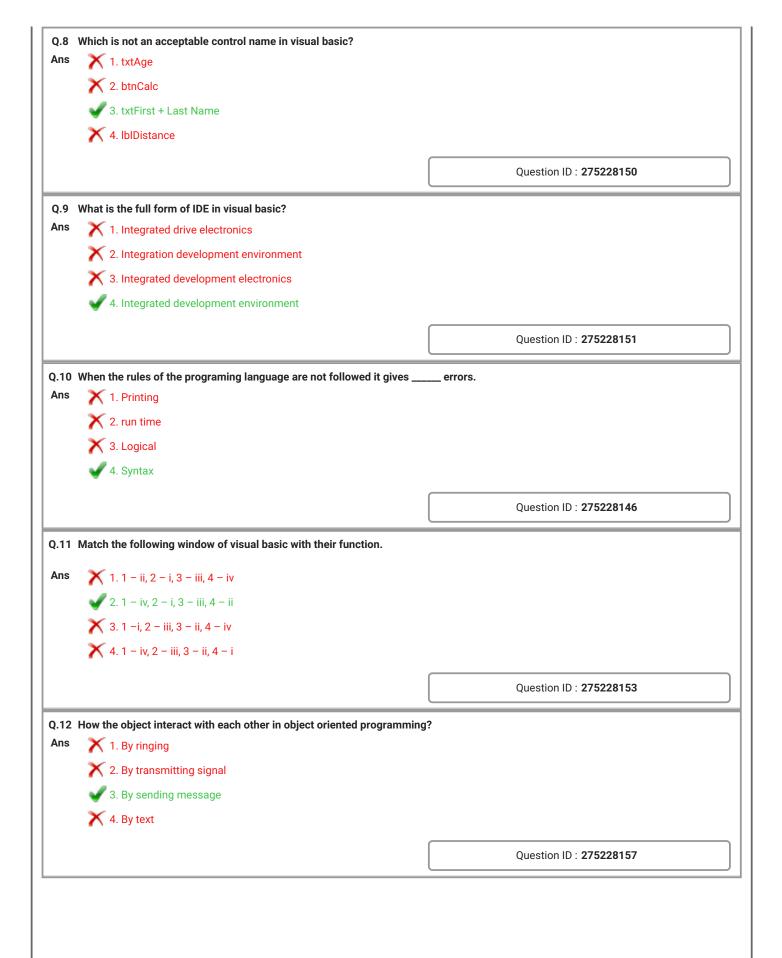
Q.3 What is the relation between N select inputs and M inputs lines in a multiplexer?

Q.8	Gray code representation of (27) <sub>10</sub> is		
Ans	<b>√</b> 1. 10110		
	<b>X</b> 2. 11010		
	<b>X</b> 3. 11011		
	<b>×</b> 4. 11100		
		Question ID : <b>275228140</b>	
Q.9	What is the correct answer of the given statements in the given orde	ler?	
	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			
	× 2. OR gate, nibble, T − flip-flop		
	X 3. NOR gate, byte, S − R flip-flop		
	√ 4. AND gate, nibble, D − flip-flop		
		Ougstion ID : 275220120	
		Question ID : <b>275228139</b>	
Q.10	What is the representation of (4589) <sub>10</sub> in Binary coded Decimal (BCD	CD) form?	
Ans	X 1. 1011001000100100		
	× 2. 0100011010001001		
	<b>√</b> 3. 0100010110001001		
	<b>×</b> 4. 1001011000100100		
		Out at in 10 10 27 2004 24	
		Question ID : <b>275228131</b>	
	In a disk system with 100 cylinders, the request to access the cylinder occur in 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 time taken to satisfy all requests if it takes 1 second to move from one cylinder to another? (Shortest seek time first policy is used)		
Ans	1.113 00001140		
	2. 129 seconds		
	X 3. 109 seconds		
	X 4. 139 seconds		
		Question ID : 275228127	
Q.12	The binary equivalent of (25.625) <sub>10</sub> is		
Ans			
	× 2. (11101.001) <sub>2</sub>		
	√ 3. (11001.101) <sub>2</sub>		
	× 4. (11011.100) <sub>2</sub>		
		0 11 12 22222	
		Question ID : <b>275228137</b>	

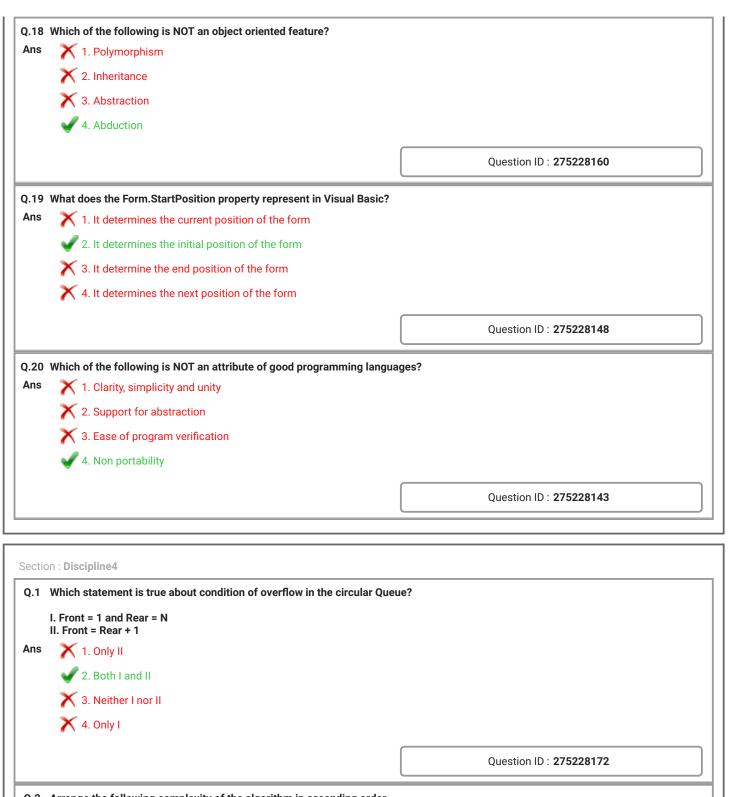








Q.13	13 In a modular programming approach problem is further divided into	
Ans	ns X 1. question	
	× 2. object	
	√ 3. modules	
	X 4. solution	
		Oversion ID: 075000155
		Question ID : <b>275228155</b>
Q.14	Which of the following is false regarding the machine language?	
Ans	🗙 1. It is made up of 1's and 0's	
	2. It easier to modify	
	X 3. It is difficult to program	
	X 4. It is machine dependent	
		Overstion ID : 075000145
		Question ID : <b>275228145</b>
Q.15	The speed of supercomputer is measured in	
Ans	1. Floating – point operations per second	
	2. Floating – point operations per hour	
	X 3. Floating – point operations per minute	
	🔀 4. Floating – point operations per day	
		Overstion ID : 075000147
		Question ID : 275228147
Q.16	What is the meaning of >>> in Python Language?	
Ans	1. Compiler is ready to take instruction	
	× 2. 3 left shift	
	X 3. 3 right shift	
	4. Interpreter is ready to take instruction	
		Outstion ID : 275222162
		Question ID : <b>275228162</b>
Q.17	Which one is NOT a feature of Python language?	
Ans	1. Case insensitive	
	× 2. Portable	
	🔀 3. Interpreted language	
	X 4. High level language	
		0 11 12 2
		Question ID : 275228161



 ${\bf Q.2} \quad {\bf Arrange\ the\ following\ complexity\ of\ the\ algorithm\ in\ ascending\ order.}$ 

Ans

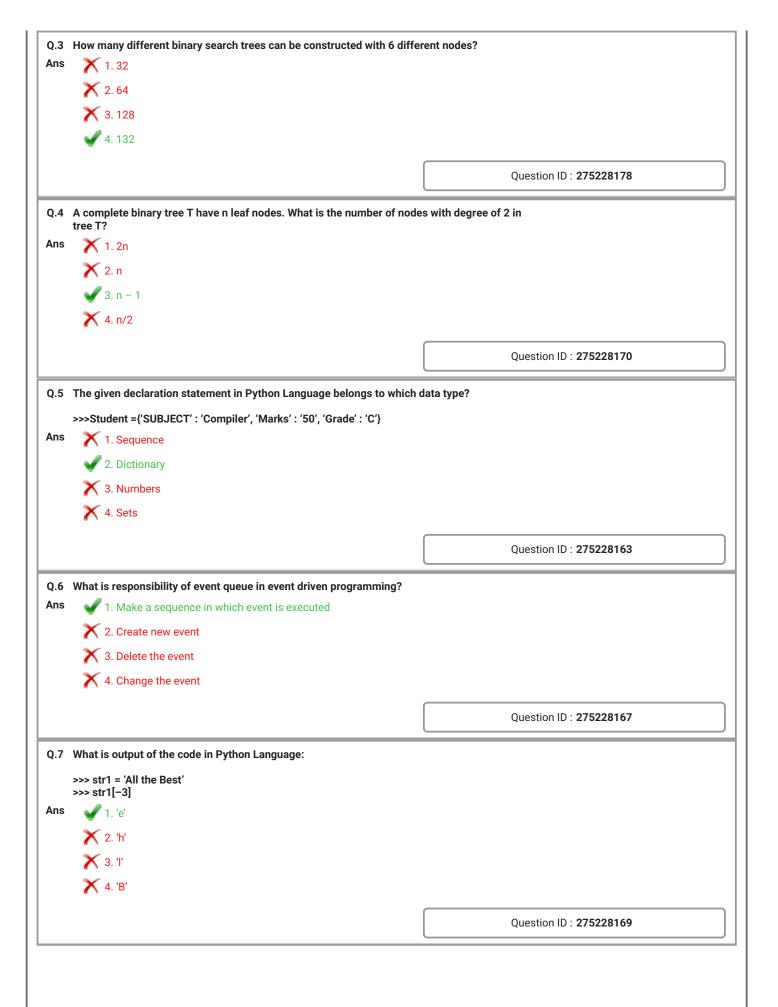
**X** 1.

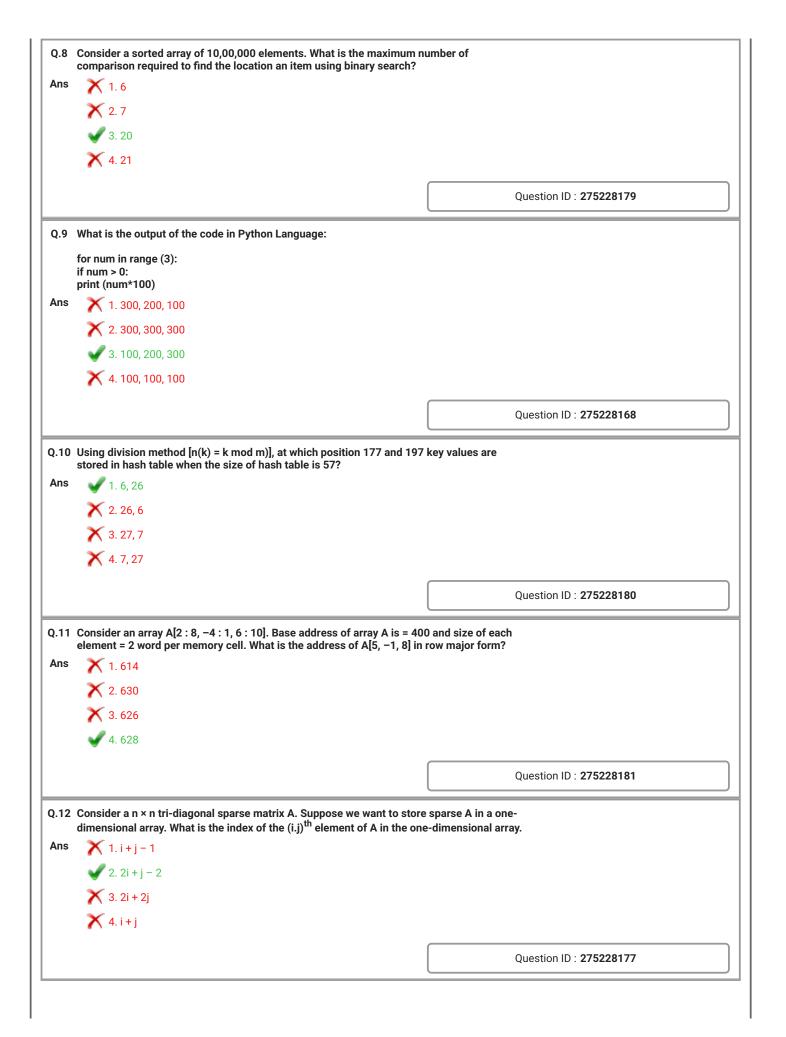


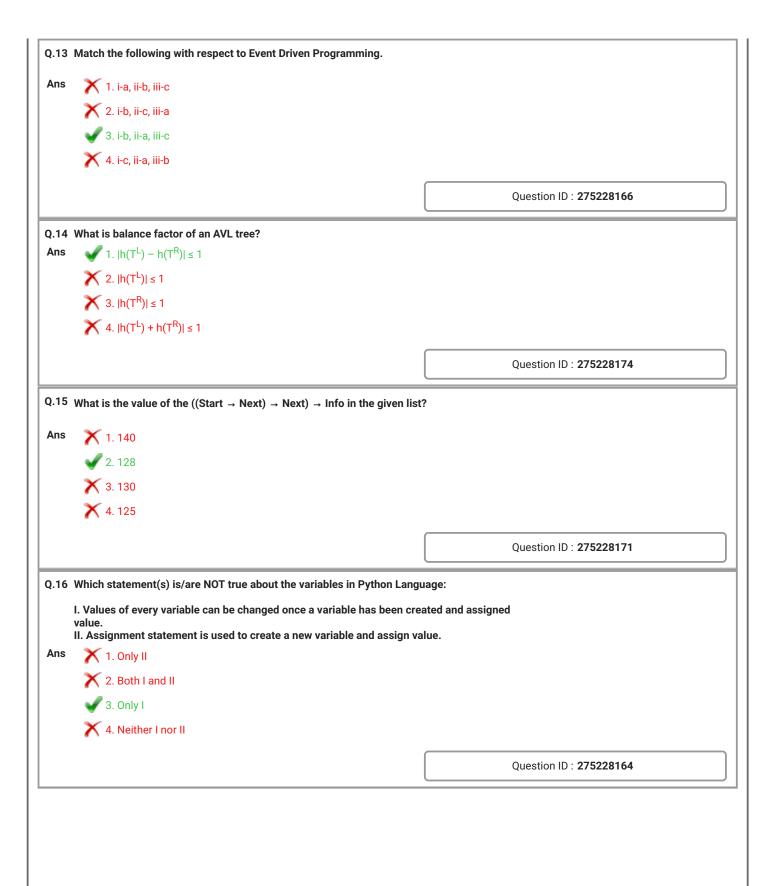
X 3

**X** 4

Question ID: 275228176



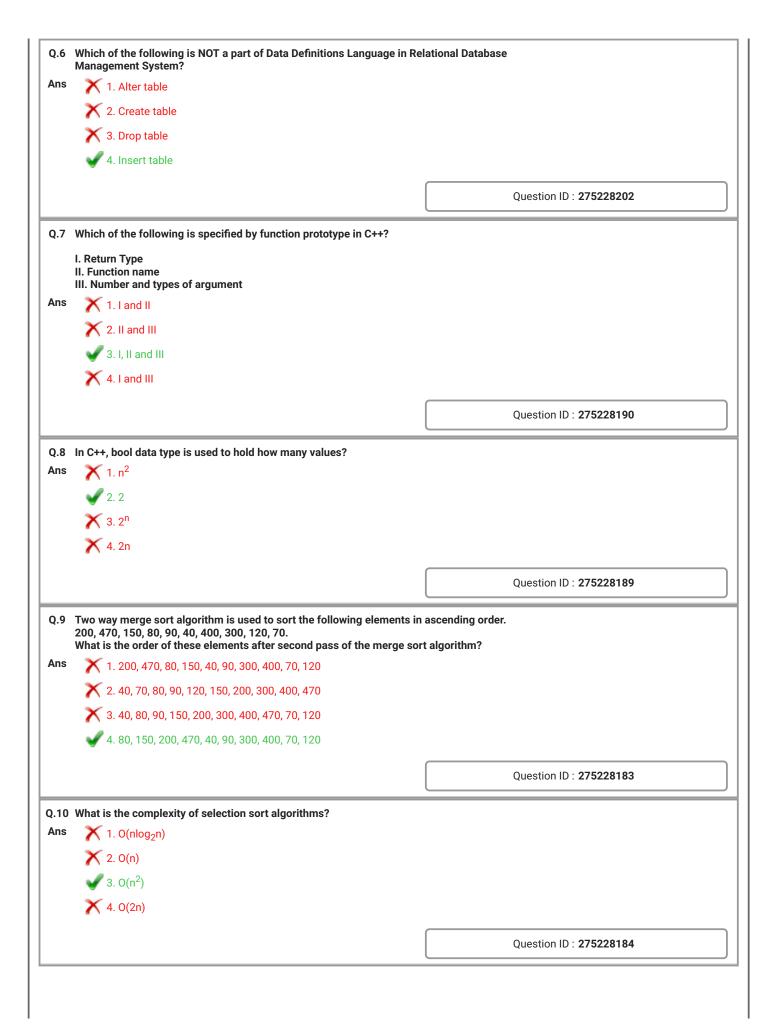




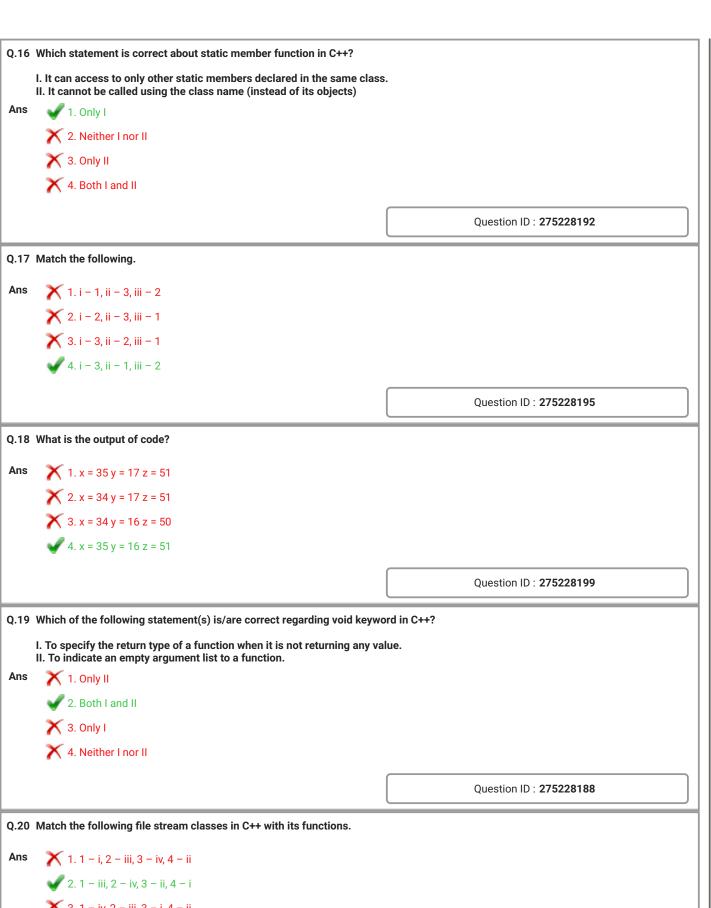
Q.17	What is the output of this code in Python Language:	
	>>> x = 125 >>> y = 13	
	>>> x // = y	
Ans	>>> <b>x</b> 1.9	
	× 2. 125/13	
	X 3. 10	
	X 4. 9.62	
	4. 9.02	
		Question ID : <b>275228165</b>
0.18	Inorder and postorder traversal of a binary tree are given.	
	In: E, I, C, F, B, G, D, J, H, K Post: I, E, F, C, G, J, K, H, D, B	
	What is the preorder traversal of the binary tree?	
Ans	✓ 1. B, C, E, I, F, D, G, H, J, K	
	× 2. B, C, E, I, F, D, G, H, K, J	
	X 3. B, C, E, F, G, H, K, D, J, I	
	X 4. B, F, I, E, C, D, G, H, J, K	
		Question ID : 275228182
Q.19	The numbers 70, 50, 10, 80, 30, 60, 100, 90, 40, 20 are inserted in the g binary search tree. What is the in-order traversal sequence of the result tree?	iven order in to a ant binary search
Ans	<b>X</b> 1. 70, 50, 10, 80, 30, 60, 100, 90, 40, 20	
	2. 100, 90, 80, 70, 60, 50, 40, 30, 20, 10	
	3. 10, 30, 50, 70, 90, 20, 40, 60, 80, 100	
	4. 10, 20, 30, 40, 50, 60, 70, 80, 90, 100	
		Question ID : 275228173
		Question D : 279220179
Q.20	What is the average number of comparisons required in sequential sear element?	ch to find an
Ans	<b>✓</b> 1.	
	<b>X</b> 2. n	
	<b>X</b> 3.	
	<b>★</b> 4. n <sup>2</sup>	
		Question ID : 275228175

Section: Discipline5

Q.1	Which of the following statement is NOT correct regarding Virtual function in C++?		
	I. It must be a member of some class. II. It is accessed by using object points.		
Ans	X 1. Only I		
	× 2. Both I and II		
	3. Neither I nor II		
	X 4. Only II		
		Question ID : <b>275228200</b>	
Q.2	In C++, "Out-of-range-index" belong to type exception while keyboalled exceptions.	pard interrupts are	
Ans	X 1. asynchronous; synchronous		
	X 2. synchronous; synchronous		
	3. synchronous; asynchronous		
	X 4. asynchronous; asynchronous		
		Question ID : <b>275228197</b>	
		Question ID . 273220197	
Q.3	Which statement is NOT correct regarding ternary operator in C++?		
Ans	1. It is also known as conditional operator		
	2. Its symbol is ?:		
	3. Operator overloading is possible in it		
	X 4. It is similar to if else		
		Question ID : <b>275228193</b>	
١.	In C++, operator '>>' is used along with object cin for reading input is kno	own as	
Ans	1. put to		
	2. output		
	X 3. get in		
	4. extraction		
		Question ID : 275228187	
0.5	What is in its according in Observation (OOL)		
Q.5 Ans	What is join operation in Structure Query Language (SQL)?  1. Join is an operation which work on a single row of a table and re	turn a single value	
	2. Join is an operation used to combine rows from two or more tak		
	more common fields between them.	ies based off offe of	
	X 3. Join is an operation which is used to combine two different data	keys.	
	4. Join is an operation used to select group rows of a table that co	ntains the same	
	values in a specific column.		
		Question ID: 275228201	



Q.11 Ans	Q.11 To convert the case of letters, which header file in C++ is to be included in the program?		
AllS	<b>▼</b> "		
	<b>X</b> 2.		
	<ul><li>★ 3.</li><li>★ 4.</li></ul>		
	4.		
		Question ID : 275228185	
0.10	to Out and the state of the sta		
Ans	2.12 In C++, namespace defines a for the identifiers that are used in a program.  Ans X 1. standard		
	✓ 2. scope		
	2. scope  X 3. syntax  X 4. size		
		Question ID : 275228186	
	By default in C++, the member of a class are, while, by default the structure are	e member of	
Ans	1. public; private		
	2. private; public		
	X 3. private;		
	3. private, private  4. public; public		
		Question ID : 275228194	
Q.14	What is output of the given code?		
Ans	<b>√</b> 1.12		
	<b>★</b> 2.3		
	<b>X</b> 3.18		
	<b>★</b> 4. 24		
		0	
		Question ID : 275228198	
Q.15	What is the symbol and associativity of the assignment operator in C+-	?	
Ans	X 1. = =, left to right		
	2. =, left to right		
	X 3. ®, right to left		
	√ 4. =, right to left		
		Question ID : 275228191	
		Question 15 . 279220171	



Question ID: 275228196

Section	on : <b>Discipline6</b>	
Q.1	Which of the following is the way to break a page in Microsoft Wo	rd?
Ans	1. Double Clicking at the beginning of the page	
	2. Pressing "Ctrl + Enter"	
	X 3. Pressing "Ctrl + Page Down"	
	X 4. Double Clicking at the end of the page	
		Question ID : <b>275228213</b>
	What is tag in HTML?	
Ans	1. It contains the number of nested tags in the page.	
	2. It contains information about the webpage.	
	X 3. It contains the address of the webpage.	
	X 4. It contains the number of tags in the web page.	
		Question ID : 275228222
Q.3	Which of the following is incorrect regarding user-friendly website	e?
Ans	X 1. It should have faster loading time	
	X 2. It should be easily accessible	
	3. It should be Cluttered	
	X 4. It should have browser consistency	
		Question ID: 275228219
Q.4	The selected text's font in Microsoft Word document will or	n pressing "Ctrl + ]" keys.
Ans	1. Decrease by 2 points	
	2. Increase by 1 points	
	X 3. Decrease by 1 points	
	4. Increase by 2 points	
		Question ID : 275228215
Q.5	What is the cardinality and degree of relation having 50 Tuples an	d 20 Attributes?

Ans

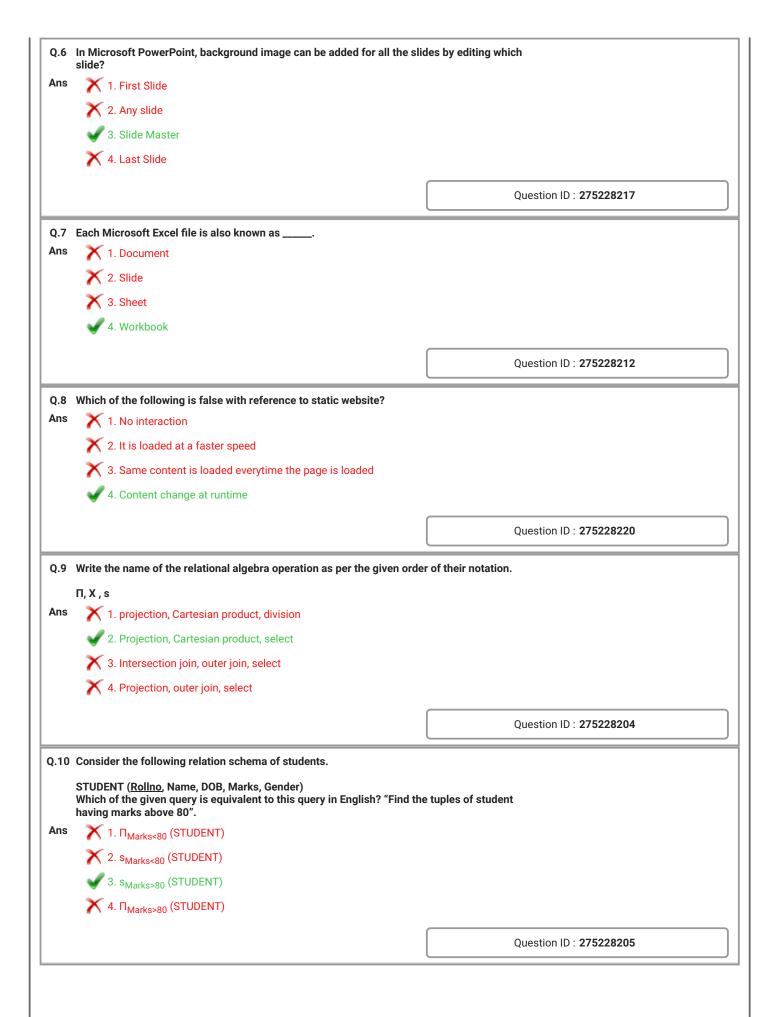
X 1. Cardinality - 50 Degree - 50

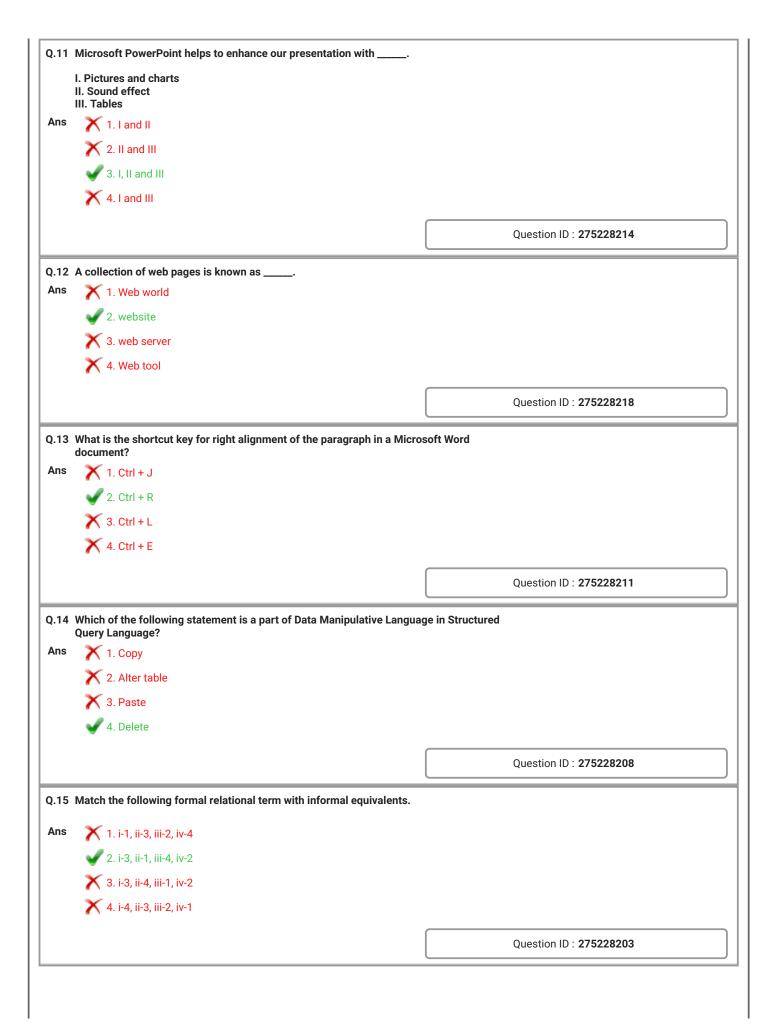
X 2. Cardinality - 70 Degree - 30

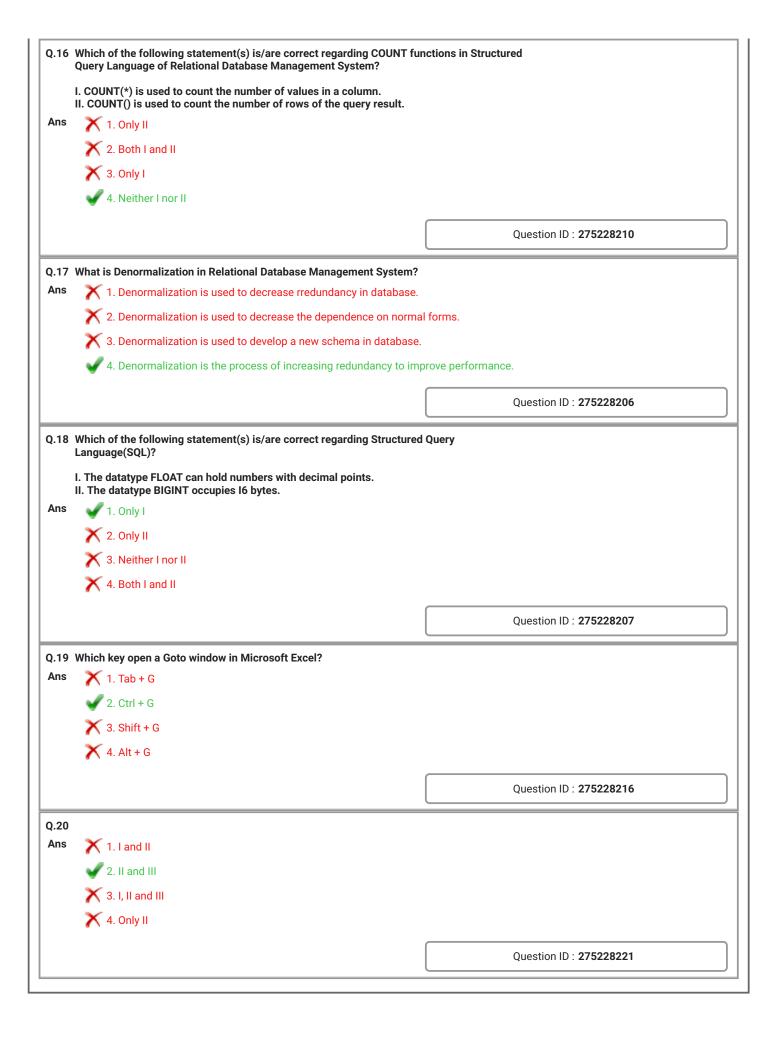
√ 3. Cardinality – 50 Degree – 20

X 4. Cardinality – 20 Degree – 50

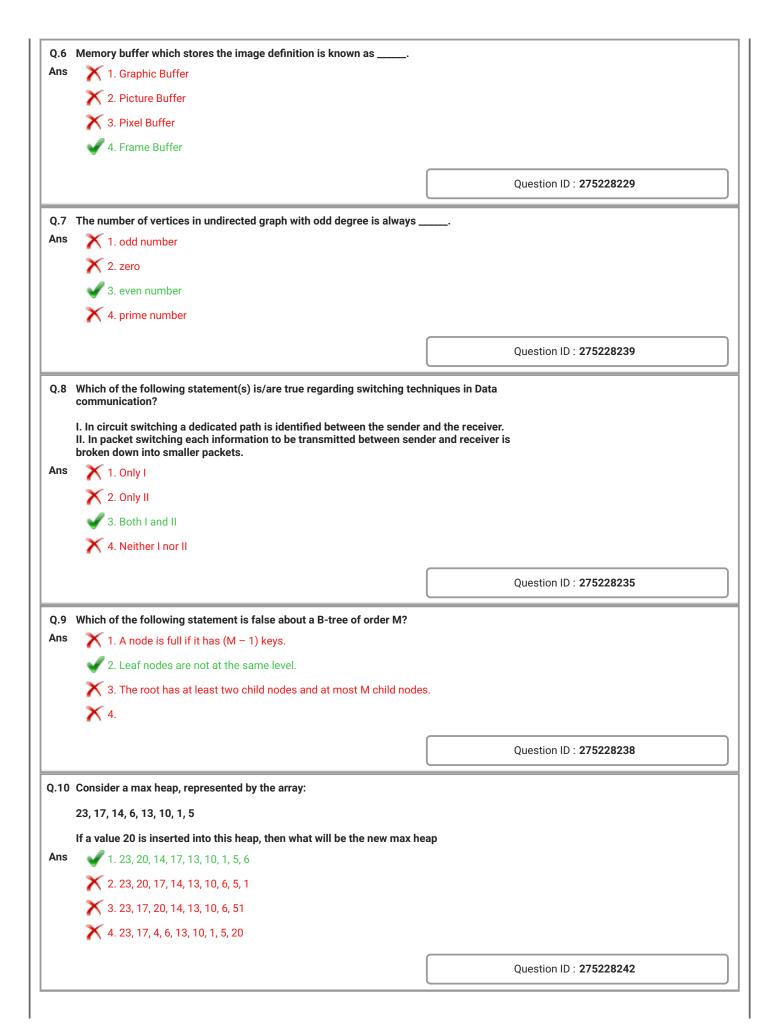
Question ID: 275228209

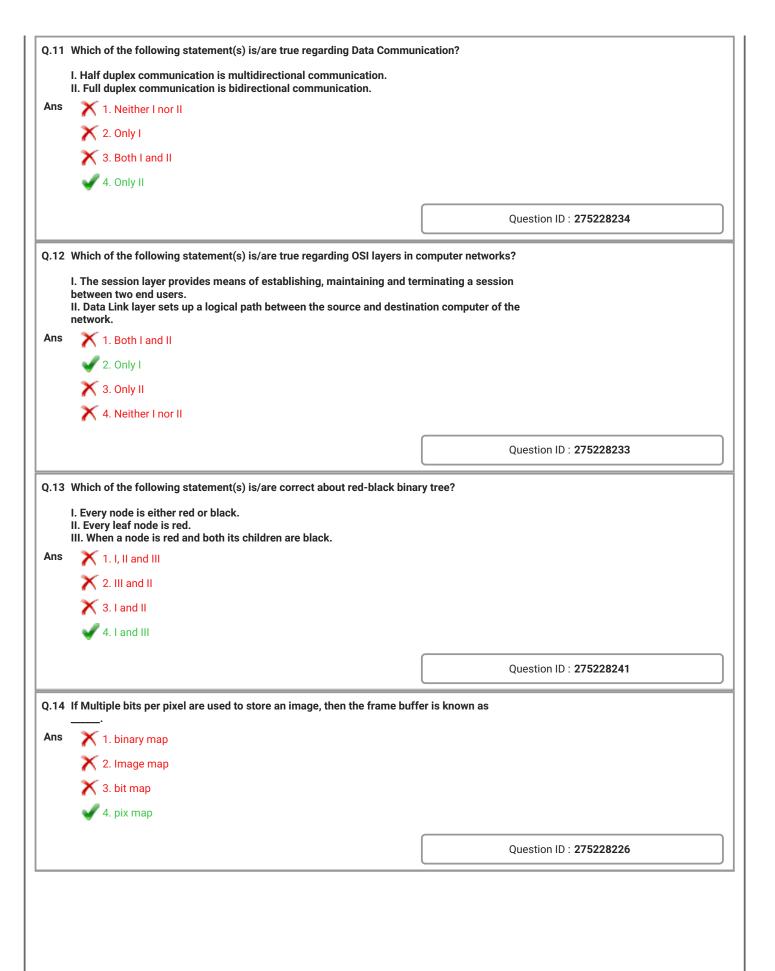






Section	Section: Discipline7			
Q.1	Which of the following is not a type of Network topology?			
Ans	1. Singleton Network			
	X 2. Star Network			
	X 3. Hybrid Network			
	X 4. Ring Network			
		Question ID : 275228232		
Q.2	Which of the following is not the file formats of graphics?			
Ans	<b>X</b> 1. GIF			
	✓ 2. WAV			
	X 3. JPG			
	<b>★</b> 4. PNG			
		0 10		
		Question ID : <b>275228225</b>		
Q.3	If complete graph have 'n' nodes, then it will have how many edges?			
Ans	<b>X</b> 1.			
	<b>X</b> 2.			
	<b>√</b> 3.			
	<b>X</b> 4.			
		Question ID : <b>275228236</b>		
		Question ID . 2/3226236		
	Aspect ratio is the ratio of to			
Ans	1. width; height			
	X 2. diagonal; height			
	X 3. height; width			
	X 4. height; diagonal			
		Question ID : <b>275228230</b>		
	Which of the following is Not a NP Complete problem?			
Ans	1. The Travelling Salesman Problem			
	2. Shortest Path Problem			
	3. Hamiltonian-Cycle problem			
	X 4. The Clique problem			
		Question ID : <b>275228240</b>		
		233333333333333		

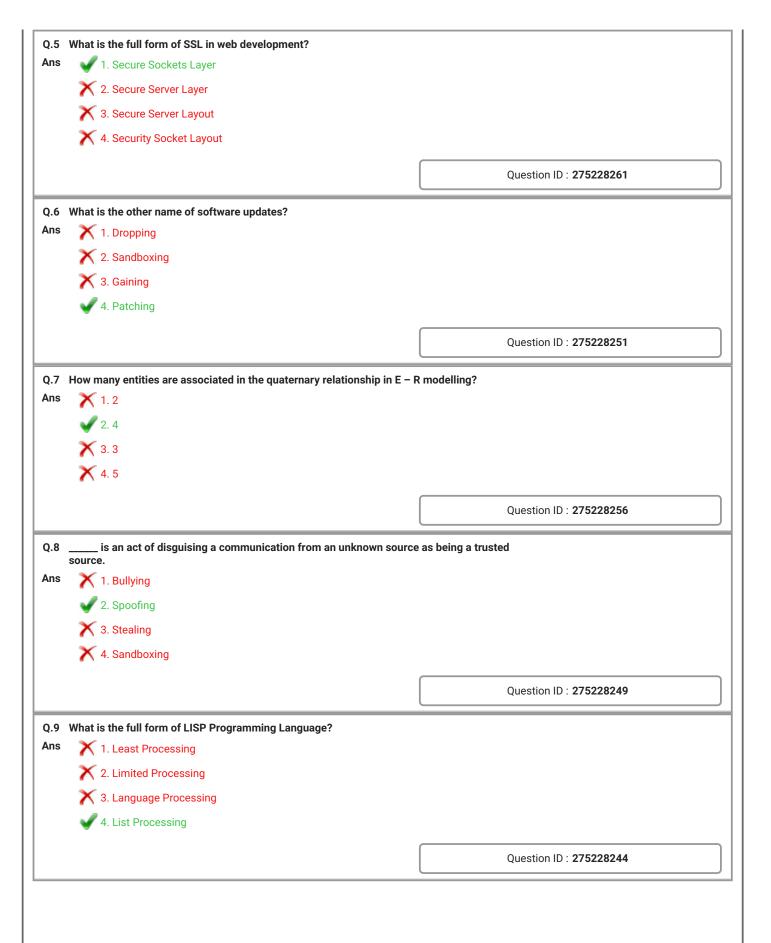


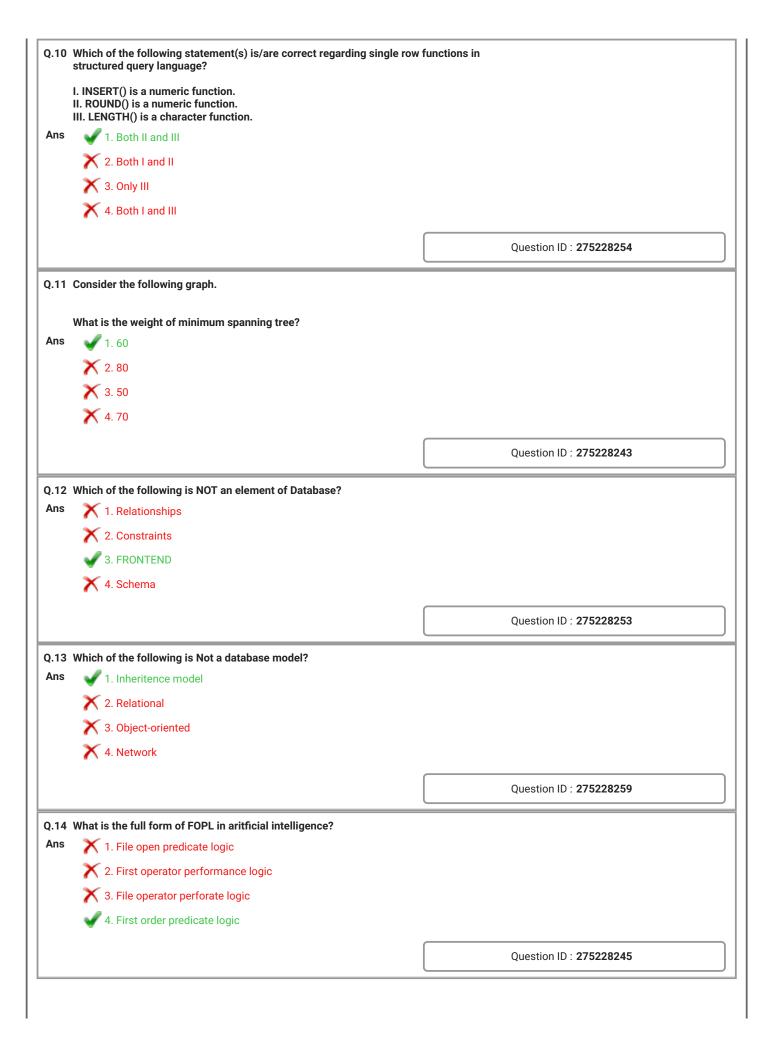


Q.15	Quicksort algorithm is based on which algorithm design technique?		
Ans	1. Divide and Conquer		
	2. Brute – Force		
	X 3. Dynamic programing		
	X 4. Greedy Algorithm		
		0 1: 15 07500007	
		Question ID : 275228237	
Q.16	of the image has a height of 4 inches and an aspect ratio of 3 : 2, then what will be the width		
Ans	X 1. 5.5 inches		
	X 2. 3 inches		
	3. 6 inches		
	X 4. 4 inches		
		Out at the ID + 07500007	
		Question ID : 275228227	
Q.17	Q.17 How many forms can we have on a webpage at the maximum?		
Ans	<b>X</b> 1.5		
	<b>X</b> 2. 10		
<ul><li>✓ 3. No limit</li><li>✓ 4. 1</li></ul>			
		Ougation ID : 275228222	
		Question ID : 275228223	
Q.18	What is image map in HTML?		
Ans	1. It is a special image in which different area point to different lo	cators on the web.	
	2. It is the backup copy of the image.		
	X 3. It contains the properties of the image.		
	X 4. It contains the number of pixels in the image.		
		Ougation ID : 27F228324	
		Question ID : 275228224	
Q.19	What is the resolution of 2 inch × 2 inch image which has 512 × 512 pix	els?	
Ans	1. 256 pixels per inch		
	X 2. 2048 pixels per inch		
	X 3. 512 pixels per inch		
	X 4. 128 pixels per inch		
		Outstien ID - CTFCCCCC	
		Question ID : 275228228	

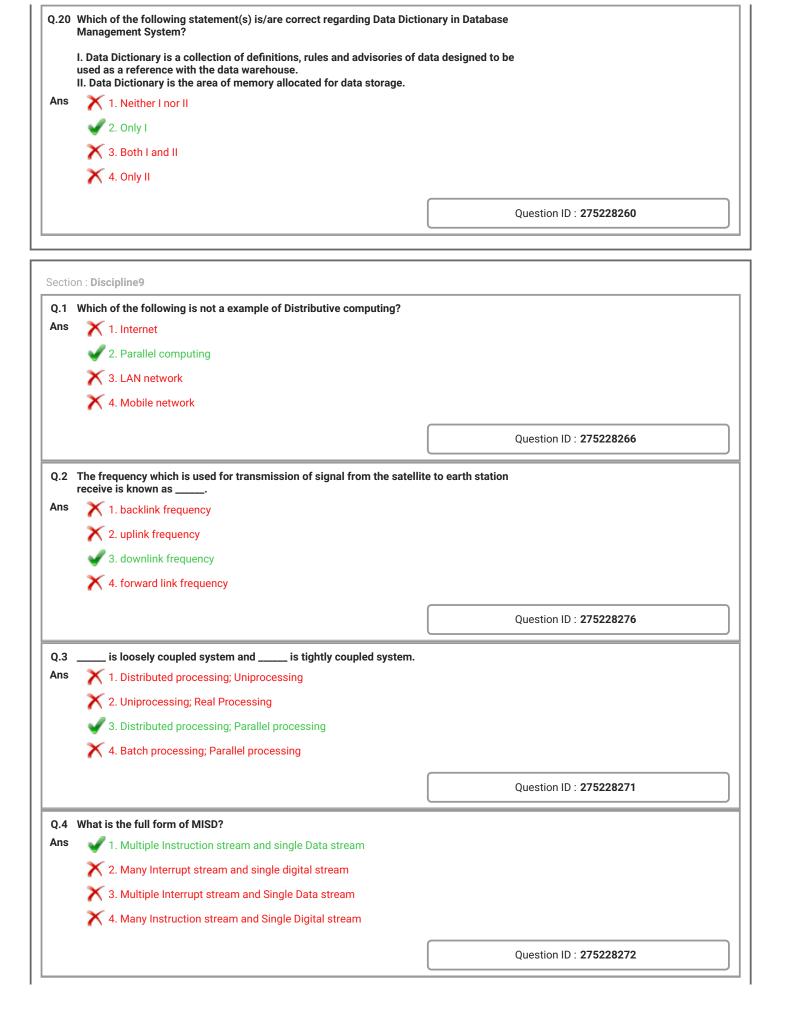
## Kilo bytes) if the system store 14 bits per pixel? Ans X 1. 7400 Kilo bytes (approximately) X 2. 6400 Kilo bytes (approximately) 3. 4400 Kilo bytes (approximately) X 4. 5400 Kilo bytes (approximately) Question ID: 275228231 Section: Discipline8 Q.1 What is Customer Relationship Management? \chi 1. Customer relationship management is a corporate level strategy which focuses on creating new customers. 2. Customer relationship management includes the methodologies, technology and capabilities that help an enterprise to manage customer relationships. 💢 3. Customer relationship management is the process of planning, implementation and controlling the operations of the supply chain. 💢 4. Customer relationship management is the process of daily production and Question ID: 275228262 Q.2 What are Honeypot systems? X 1. They are computer hardware having pre installed antivirus programs 2. They are decoy system to attract attackers in order to learn their tactics X 3. They are antivirus programs and act as a firewall X 4. It is the other name of distributed systems Question ID: 275228252 Q.3 In Structured Query Language, what is the GROUP BY clause? Ans 1. It combines data from two tables on specific conditions. 2. It groups the table with same name in the database. 🔀 3. It groups the columns together that contains the same values in a specific rows. 4. It groups the rows together that contain the same values in a specific column. Question ID: 275228258 act as a interface between a domain expert and an expert system. Q.4 Ans 1. Knowledge Editor 2. Language Editor 3. K editor 4. Intelligent editor Ouestion ID: 275228246

Q.20 If the system have resolution of 640 × 480, then what is the size of the refresh buffer (in

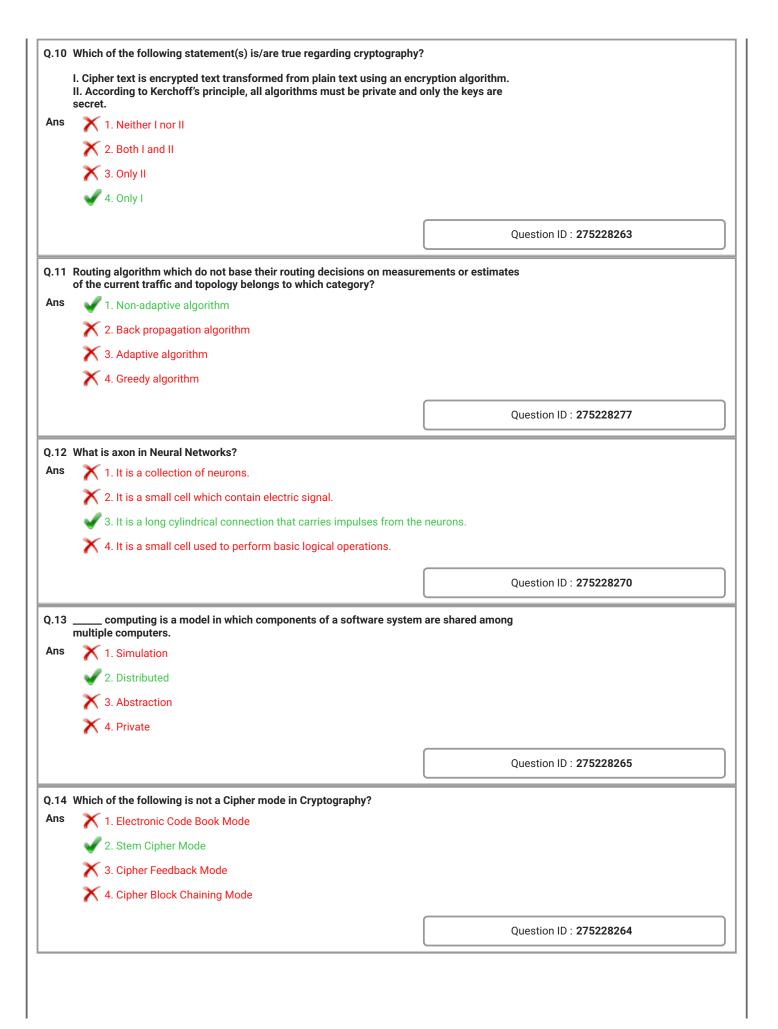




Q.15	is a way of providing control execution environment for extracted programs.	
Ans	X 1. Paycods	
	× 2. Spoofing	
	3. Sandboxing	
	X 4. Honeypot	
		Question ID : <b>275228250</b>
		Question ib . 273220230
	What is self join in Database Management System?	
Ans	1. In a self-join, a table is joined to itself	
	2. In a self join, a table is joined to a number	
	X 3. In a self-join, two databases are joined	
	X 4. In a self join, a table is joined with a query	
		Question ID : 275228255
Q.17	Express the given statement in FOPL?	
	Statement: Any two numbers can be added together.	
Ans	<b>✓</b> 1.	
	<b>★</b> 2.	
	<b>X</b> 3.	
	<b>×</b> 4.	
		Question ID : 275228247
		Question is . 270220247
	Which one of the following is NOT a part of the ACID properties of datal	pase transaction?
Ans	1. Atomicity	
	2. Instance	
	X 3. Consistency	
	X 4. Durability	
		Question ID : 275228257
	Which of the following is the correct sequence in Pattern Recognition p	rocess?
Ans	1. Feature Extraction, Data Acquisition, Matching, Classification	
	2. Matching, Data Acquisition, Feature Extraction, Classification	
	3. Data Acquisition, Feature Extraction, Matching, Classification	
	X 4. Data Acquisition, Feature Extraction, Classification, Matching	
		Question ID : 275228248



Q.5	Runge – Kutta method is used for	
Ans	1. solution of system of linear equation	
	2. ordinary differential equation	
	X 3. root finding	
	X 4. integration	
		Overtice ID - 075000070
		Question ID : <b>275228278</b>
Q.6	Newton – Raphson method is used to compute a root of the equation $x^2$ as the initial value. The approximate value after one iteration is	+ 4x - 9 = 0 with 1
Ans	X 1. 1.429	
	<b>X</b> 2. 1.528	
	<b>X</b> 3. 0.429	
	<b>√</b> 4. 1.571	
		Question ID : <b>275228279</b>
		Question ID . 27522277
Q.7	Sending incoming packet to every outgoing line except the one it arrived	l is known as
Ans	X 1. congestion	
	2. scratching	
	X 3. message calling	
	✓ 4. flooding	
		Question ID : <b>275228275</b>
Q.8	The process which digitized amplitude value of the image during digital image is known as	conversion of an
Ans	1. Quantization	
	× 2. extraction	
	X 3. sampling	
	X 4. filtering	
		0 11 10 07500000
		Question ID : <b>275228282</b>
Q.9	Which of the following is NOT a Data MINING technique?	
Ans	1. Database Segmentation	
	2. Link Analysis	
	X 3. Predictive Modeling	
	4. Evaluation	
		Outstier ID : 075000070
		Question ID : <b>275228273</b>



Q.15	15 Which of the following is NOT a Data MINING Language?		
Ans	5 1. BASIC		
	× 2. Weka		
	X 3. R. Language		
	X 4. Python		
		Out at in ID 1077000074	
		Question ID : <b>275228274</b>	
	An image may be defined as a 2-dimmensional function $f(x, y)$ where $x$ at the amplitude of the function is called of the image at the point ( $x$		
Ans	X 1. brightness; coordinates		
	2. coordinates; intensity		
	X 3. intensity; coordinates		
	X 4. intensity; brightness		
	Ouestion ID : 275228281		
		Question ID : 2/5228281	
Q.17	What is a neuron in Neural Networks?		
Ans	1. A neuron is a cell which has the capability to predict the situation	n from past trends.	
	2. A neuron is a cell that send electromagnetic signals to axons.		
	3. A neuron is a small cell that receives electrochemical signals from	om various sources	
	and transmit electrical impulses to other neurons.		
	X 4. A neuron is a small cell that sends electric impulses to ions.		
		Question ID : 275228269	
0.10	is the science of computers dealing with languages?		
Ans	X 1. Assembly Language		
	2. Machine language		
	✓ 3. Computational linguistics		
	3. Computational linguistics  4. Distributed computing		
	4. Distributed computing		
		Question ID : 275228280	
0.19	Which of the following is not an example of Simulation and Modeling?		
Q.19 Ans	Which of the following is not an example of Simulation and Modeling?  1. Video game		
	X 1. Video game		
	<ul><li>1. Video game</li><li>2. Logical gates</li></ul>		
	<ul><li>1. Video game</li><li>2. Logical gates</li><li>3. Computer table</li></ul>		
	<ul><li>1. Video game</li><li>2. Logical gates</li></ul>		

