SAPTHAGIRI College of Engineering Creating Tomorrow

Sapthagiri College of Engineering

(Affiliated to Visvesvaraya Technological University, Belagavi& Approved by AICTE, New Delhi)
#14/5, Chikkasandra, Hesaraghatta Main Road, Bengaluru – 560057
Phone:080-28372800/1/2 www.sapthagiri.edu.in Fax: 080-28372797

From,

Convenor
STUTI(Career Guidance and Placement Cell)
Sapthagiri College of Engineering
Bangalore - 560057.

Through
IQAC COORDINATOR
Sapthagiri College of Engineering
Bangalore - 560057.

To,

THE PRINCIPAL
Sapthagiri College of Engineering
Bangalore - 560057.

Respected Sir,

Subject: Requisition to conduct training on Quantitative/ logical reasoning/verbal aptitude and soft skill training for final years from 9th July 2018 to 21st July 2018.

In the benefit of student welfare STUTI is Conducting training on Quantitative/ logical reasoning/verbal aptitude and soft skill training for final years from 9th July 2018 to 21st July 2018. So we request you to kindly approve for the above.

Sl.No.	Particular/Head	Amount in Rupees
1	Honorarium	2,99,000
2	Breakfast, Tea, Lunch, High Tea	25,000/-
3	Certificates	10,000/-
4	Miscellaneous	1000/-
	Total Amount Allocated in rupees	**3,35,000/-**

Thanking you

Convenor

SUMA VISHWANATH
Group Head HRD
Sapthagiri College of Engineering
Sapthagiri Institute of Medical Sciences & Research Centre

Principal
Sapthagiri College of Engineering
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25/06/2018

STUTI
CIRCULAR

This is to inform that all STUTI team members to attend the meeting held on 29/06/2018 at 1:30PM in Principal cubical

Agenda of the meeting:

1. To Discuss about resource person for training, and to finalize Conduction dates.

2. To Discuss and finalize about Course content.

Sl. No.	Name	Designation		Signature
1.	Dr. Ravi. K. N	Professor	Member	
2.	Dr. Ranganatha	Professor	Member	H R Ranga
3.	Madhushree	Asst. Professor	Member	
4.	Madhu Kumar	Asst. Professor	Member	
5.	Geetha T S	Asst. Professor	Member	
6.	Priya kumari	Student	Member	Priya
7.	Nikil Gowda C	Student	Member	

Convener

SUMA VISHWANATH
Group Head HRD
Sapthagiri College of Engineering
Sapthagiri Institute of Medical
Sciences & Research Centre

PRINCIPAL
Principal
Sapthagiri College of Engineering
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29/06/2018

STUTI
MINUTES OF MEETING

The meeting was held by Convenor Stuti Team on 29/06/2018 at 1:30PM in Principal cubical.

Agenda of the meeting:

To Conduct training on Quantitative/ logical reasoning/verbal aptitude and soft skill training for final years from 9th July 2018 to 21st July 2018.

1. Discussed about resource person, conduction date(9/7/18 to 21/7/18) and decided Resource person from ladder consultancy service pvt ltd.
2. Discussed about Course content and finalized. Course Schedule and Contents are as shown in the table
3. Informed STUTI team to coordinate with ladder consultancy service pvt ltd to conduct training smoothly.

DATES	SESSION 1	SESSION 2
9/7/2018	Introduction to Communication Soft Skill • Verbal Communication	Communication Skill • Non Verbal Communication
10/7/18	• Visual Communication • Written Communication	• Active Listening • Clarity
11/07/18	• Confidence • Interviewing	• Compound interest • Clock
12/07/18	• Negotiation	• Personal Branding
13/07/18	• Persuasion	• Presentation Skills
14/07/18	• Public Speaking	• Story telling
16/07/18	• Diplomacy	• Empathy

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17/07/18	• Friendliness	• Humor
18/07/18	• Networking	• Patience
19/07/18	• Positive Reinforcement	• Sensitivity & Tolerance
20/07/18	• Group discussion	• Group discussion
21/07/18	• Mock Interview	• Mock Interview

Convenor

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NOTICE

It is hereby informed to all final year students, that the STUTI team of Sapthagiri College of Engineering is organizing training on Quantitative/ logical reasoning/verbal aptitude and soft skill training from 9/7/2018 to 21/7/2018. So all the students are requested to register their names to department coordinator of STUTI team.

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Convenor

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NOTICE

This to inform all final year students that Schedule of Quantitative/ logical reasoning/verbal aptitude and soft skill training is as follows.

DATES	SESSION 1	SESSION 2
9/7/2018	Introduction to Communication Soft Skill • Verbal Communication	Communication Skill • Non Verbal Communication
10/7/18	• Visual Communication • Written Communication	• Active Listening • Clarity
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NOTICE

STUTI team hereby informing to all final year students, to attend Scheduled test on Quantitative/ logical reasoning/verbal aptitude and soft skill training on 23/7/2018.So all the students are requested to attend the training test without fail.

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QUESTION PAPER

1. Ten years ago, P was half of Q's age. If the ratio of their present ages is 3:43:4, what will be the total of their present ages?

A. 45 B. 40

C. 35 D. 30

2. Father is aged three times more than his son Sunil. After 88 years, he would be two and a half times of Sunil's age. After further 88 years, how many times would he be of Sunil's age?

A. 44 times B. 55 times

C. 22 times D. 33 times

3. A man's age is 125%125% of what it was 1010 years ago, but 5313%8313% of what it will be after 1010 years. What is his present age?

A. 70 B. 60

C. 50 D. 40

4. A man is 2424 years older than his son. In two years, his age will be twice the age of his son. What is the present age of his son?

A. 23 years B. 22years

C. 21 years D. 20 years

5. Two numbers are in the ratio 2 : 3. If their L.C.M. is 48. what is sum of the numbers?

A. 28 B. 40

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C. 64 D. 42

6. What is the greatest number of four digits which is divisible by 15, 25, 40 and 75 ?

A. 9800 B. 9600

C. 9400 D. 9200

7. Three numbers are in the ratio of 2 : 3 : 4 and their L.C.M. is 240. Their H.C.F. is:

A. 40 B. 30

C. 20 D. 10

8. What is the lowest common multiple of 12, 36 and 20?

A. 160 B. 220

C. 120 D. 180

9. What is the least number which when divided by 5, 6, 7 and 8 leaves a remainder 3, but when divided by 9 leaves no remainder?

A. 1108 B. 1683

C. 2007 D. 3363

10 . The H.C.F. of two numbers is 5 and their L.C.M. is 150. If one of the numbers is 25, then the other is:

A. 30 B. 28

C. 24 D. 20

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11. 504 can be expressed as a product of primes as

A. $2 \times 2 \times 3 \times 3 \times 7 \times 7$ B. $2 \times 3 \times 3 \times 3 \times 7 \times 7$

C. $2 \times 3 \times 3 \times 3 \times 3 \times 7$ D. $2 \times 2 \times 2 \times 3 \times 3 \times 7$

12. Which of the following integers has the most number of divisors?

A. 101 B. 99

C. 182 D. 176

.

13. The least number which should be added to 28523 so that the sum is exactly divisible by 3, 5, 7 and 8 is

A. 41 B. 42

C. 32 D. 37

14. What is the least number which when doubled will be exactly divisible by 12, 14, 18 and 22 ?

A. 1286 B. 1436

C. 1216 D. 1386

15. A clock is started at noon. By 10 minutes past 5, the hour hand has turned through

A. 155° B. 145°

C. 152° D. 140°

16. At what time between 7 and 8 o'clock will the hands of a clock be in the same straight line but not

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together?

A. 5 minutes past 7

B. 53115311 minutes past 7

C. 51115111 minutes past 7

D. 55115511 minutes past 7

17. At what time between 5.30 and 6 will the hands of a clock be at right angles?

A. 44 minutes past 5

B. 4471144711 minutes past 5

C. 4371143711 minutes past 5

D. 43 minutes past 5

18. At what angle the hands of a clock are inclined at 15 minutes past 5?

A. 6712°6712°

B. 6212°6212°

C. 70°

D. 6334°6334°

19. At 3:40, the hour hand and the minute hand of a clock form an angle of

A. 135°

B. 130°

C. 120°

D. 125°

20. The angle between the minute hand and the hour hand of a clock when the time is 8.30, is

A. 75°

B. 85°

C. 80°

D. 70°

21. How many times in a day, are the hands of a clock in straight line but opposite in direction?

A. 48

B. 22

C. 24

D. 12

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22. At what time between 3 o'clock and 4 o'clock, both the needles of a clock will coincide each other?

A. 1621116211 minutes past 3 B. 1641116411 minutes past 3

23. How many times will the hands of a clock coincide in a day?

A. 24 B. 22

24. The H.C.F. of two numbers is 5 and their L.C.M. is 150. If one of the numbers is 25, then the other is:

A. 30 B. 28

C. 24 D. 20

25. 504 can be expressed as a product of primes as

A. $2 \times 2 \times 3 \times 3 \times 7 \times 7$ B. $2 \times 3 \times 3 \times 3 \times 7 \times 7$

C. $2 \times 3 \times 3 \times 3 \times 3 \times 7$ D. $2 \times 2 \times 2 \times 3 \times 3 \times 7$

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SCHEME

1. Answer: Option C

Explanation:

Let present age of P and Q be 3x3x and 4x4x respectively.

Ten years ago, P was half of Q's age
⇒(3x−10)=12(4x−10)⇒6x−20=4x−10⇒2x=10⇒x=5⇒(3x−10)=12(4x−10)⇒6x−20=4x−10⇒2x=10⇒x=5

Total of their present ages
=3x+4x=7x=7×5=35=3x+4x=7x=7×5=35

2. Answer: Option C

Explanation:

Assume that Sunil's present age =x=x.
Then, father's present age =3x+x=4x=3x+x=4x

After 88 years, father's age =212=212 times of Sunils' age
⇒(4x+8)=212(x+8)⇒4x+8=52(x+8)⇒8x+16=5x+40⇒3x=40−16=24⇒x=243=8⇒(4x+8)=212(x+8)⇒4x+8=52(x+8)⇒8x+16=5x+40⇒3x=40−16=24⇒x=243=8

After further 88 years,
Sunil's age =x+8+8=8+8+8=24=x+8+8=8+8+8=24
Father's age =4x+8+8=4×8+8+8=48=4x+8+8=4×8+8+8=48

Father's age/Sunil's age =4824=2=4824=22

3. Answer: Option C

Explanation:

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Let the age before 1010 years =x=x. Then,

125x100=x+10⇒125x=100x+1000⇒x=100025=40125x100=x+10⇒125x=100x+1000⇒x=1000 25=40

Present age =x+10=40+10=50=x+10=40+10=50

4. Answer: Option B

Explanation

Let present age of the son =x=x years
Then, present age the man =(x+24)=(x+24) years

Given that, in 22 years, man's age will be twice the age of his son
⇒(x+24)+2=2(x+2)⇒x=22⇒(x+24)+2=2(x+2)⇒x=22

5. Answer: Option B

Explanation:

Let the numbers be 2x2x and 3x3x

LCM of 2x2x and 3x3x =6x =6x (∵ LCM of 2 and 3 is 6. Hence LCM of 2x2x and 3x3x is 6x6x)

Given that LCM of 2x2x and 3x3x is 48

=> 6x=486x=48
=> x=486=8x=486=8

Sum of the numbers
=2x+3x=5x=2x+3x=5x
$= 5 \times 8 = 40$

6. Answer: Option B

Explanation:

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Greatest number of four digits = 9999

LCM of 15, 25, 40 and 75 = 600

9999 ÷ 600 = 16, remainder = 399

Hence, greatest number of four digits which is divisible by 15, 25, 40 and 75
= 9999 - 399 = 9600

7. Answer: Option C

Explanation:

Let the numbers be 2x2x, 3x3x and 4x4x

LCM of 2x2x, 3x3x and 4x4x = 12x12x

12x=240 ⇒x=24012=2012x=240 ⇒x=24012=20

H.C.F of 2x2x, 3x3x and 4x4x =x=20=x=20

8. Answer: Option D

Explanation:

2	12, 36, 20
2	6, 18, 10
3	3, 9, 5
	1, 3, 5

LCM = 2 × 2 × 3 × 1 × 3 × 5 = 180

9. Answer: Option B

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Explanation:

Solution 1

LCM of 5, 6, 7 and 8 = 840

Hence the number can be written in the form (840k + 3) which is divisible by 9.

If k = 1, number = (840 × 1) + 3 = 843 which is not divisible by 9.
If k = 2, number = (840 × 2) + 3 = 1683 which is divisible by 9.

Hence 1683 is the least number which when divided by 5, 6, 7 and 8 leaves a remainder 3, but when divided by 9 leaves no remainder.

Solution 2 - Hit and Trial Method

Just see which of the given choices satisfy the given condtions.

Take 3363. This is not even divisible by 9. Hence this is not the answer.

Take 1108. This is not even divisible by 9. Hence this is not the answer.

Take 2007. This is divisible by 9.
2007 ÷ 5 = 401, remainder = 2 . Hence this is not the answer

Take 1683. This is divisible by 9.
1683 ÷ 5 = 336, remainder = 3
1683 ÷ 6 = 280, remainder = 3
1683 ÷ 7 = 240, remainder = 3
1683 ÷ 8 = 210, remainder = 3
Hence 1683 is the answer

10. Answer: Option A

Explanation:

Product of two numbers = Product of their HCF and LCM.

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Let one number =x=x

=> 25×x=5×15025×x=5×150

=> x=5×15025=30x=5×15025=30

11. Answer: Option D

Explanation:

It is clear that 504 = 2 × 2 × 2 × 3 × 3 × 7

12. Answer: Option D

Explanation:

99 = 1 × 3 × 3 × 11
=> Divisors of 99 are 1, 3, 11, 9, 33 and 99

101 = 1 × 101
=> Divisors of 101 are 1 and 101

182 = 1 × 2 × 7 × 13
=> Divisors of 182 are 1, 2, 7, 13, 14, 26, 91 and 182

176 = 1 × 2 × 2 × 2 × 2 × 11
=> Divisors of 176 are 1, 2, 11, 4, 22, 8, 44, 16, 88, 176

Hence 176 has most number of divisors.

13. Answer: Option D

Explanation:

LCM of 3, 5, 7 and 8 = 840

28523 ÷ 840 = 33 remainder = 803

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Hence the least number which should be added = 840 - 803 = 37

14.Answer: Option D

Explanation:

LCM of 12, 14, 18 and 22 = 2772

Hence the least number which will be exactly divisible by 12, 14, 18 and 22 = 2772

2772 ÷ 2 = 1386

1386 is the number which when doubled, we get 2772

Hence, 1386 is the least number which when doubled will be exactly divisible by 12, 14, 18 and 22.

15.Answer: Option A

Explanation:

We know that angle traced by hour hand in 12 hrs = 360°

Time duration from noon to 10 minutes past 5
= 5 hours 10 minutes
=51060=51060 hour =316=316 hour

Hence the angle traced by hour hand from noon to 10 minutes past 5
=316×36012=316×30 =31×5=155°=316×36012=316×30 =31×5=155°

16.Answer: Option D

Explanation:

Solution 1

The two hands of a clock will be in the same straight line but not together between HH and (H+1)(H+1) o' clock at

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5H−30)1211 minutes past H, when H>6 (5H+30)1211 minutes past H,
when H<6{(5H−30)1211 minutes past H, when H>6 (5H+30)1211 minutes past H, when H<6

Here H = 7.

Hands of the clock will point in opposite directions at

(5×7−30)1211(5×7−30)1211 minutes past 7

=5×1211=5×1211 minutes past 7

=6011=6011 minutes past 7

=5511=5511 minutes past 7

Solution 2

It's better to use formula as it can save lots of time in exams. However we should understand the basics for sure. Please find the method given below to solve the same problem in the traditional way.

If the hands of the clock are in the same straight line, but not together, they will be 30 minute spaces apart.

At 7'o clock, the hands of the clock are 25 minute spaces apart. Hence the minute hand should gain 5 minute spaces over the hour hand so that the hands will be 30 minute spaces apart.

In 60 minutes, minute hand gains 55 minute spaces over the hour hand.

Hence, to gain 5 minute spaces for the minute hand, time needed
=6055×5=6011=6055×5=6011 minutes =5511=5511 minutes

That means when the time is 55115511 minutes past 7, the hands of a clock will be in the same straight line but not together.

17.Answer: Option C

Explanation

Solution 1

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The two hands of the clock will be at right angles between HH and (H+1)(H+1) o' clock at (5H±15)1211(5H±15)1211 minutes past HH 'o clock

Let's see the times at which right angles are formed between 5 and 6

Let's take H=5. Hence the two hands will be at right angles between 5 and 6 at

(5×5±15)1211(5×5±15)1211 minutes past 5 'o clock

=(25±15)1211=(25±15)1211 minutes past 5 'o clock

=10×1211=10×1211 minutes past 5 'o clock and 40×121140×1211 minutes past 5 'o clock

=12011=12011 minutes past 5 'o clock and 4801148011 minutes past 5 'o clock

=101011=101011 minutes past 5 'o clock and 4371143711 minutes past 5 'o clock

101011101011 minutes past 5 comes before 5.30. 4371143711 minutes past 5 comes between 5.30 and 6. The question is to find out the time between 5.30 and 6 when the hands of a clock will be at right angles. Hence the required time is 4371143711 minutes past 5

Solution 2

At 5, the hands are 25 minutes spaces apart.

To get a right angle when the time is between 5.30 and 6, the minute hand has to gain (25 + 15) = 40 minute spaces over the hour hand.

In 60 minutes, minute hand gains 55 minute spaces over the hour hand.

Hence, to gain 40 minute spaces for the minute hand, time needed
=6055×40=1211×40 =48011=43711 minutes.=6055×40=1211×40 =48011=43711 minutes.

That means when the time is 4371143711 minutes past 5, the hands of a clock will be at right angles

14. Answer: Option A

Explanation:

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Solution 1

Angle between hands of a clock

When the minute hand is behind the hour hand, the angle between the two hands at MM minutes past HH 'o clock
=30(H−M5)+M2=30(H−M5)+M2 degree

When the minute hand is ahead of the hour hand, the angle between the two hands at MM minutes past HH 'o clock
=30(M5−H)−M2 degree=30(M5−H)−M2 degree

Here H = 5, M = 15 and the minute hand is behind the hour hand.

Hence the angle
=30(H−M5)+M2 =30(5−155)+152 =30(5−3)+7.5 =30×2+7.5 =67.5°=30(H−M5)+M2 =30(5−155)+152 =30(5−3)+7.5 =30×2+7.5 =67.5°

Solution 2

15 minutes past 5
= 5 hour 15 minutes
=51560=51560 hour =514=514 hour =214=214 hour.

Angle traced by hour hand in 12 hours = 360°

Hence angle traced by hour hand in 214214 hour
=36012×214=30×214=30×5.25=36012×214=30×214=30×5.25 = 157 5°

Angle traced by minute hand in 60 minutes = 360°

Angle traced by minute hand in 15 minutes =36060×15=36060×15 = 90°

Required angle = 157.5 - 90 = 67.5°

15. Answer: Option B

Explanation:

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Solution 1

Angle between hands of a clock

When the minute hand is behind the hour hand, the angle between the two hands at MM minutes past HH 'o clock
=30(H−M5)+M2=30(H−M5)+M2 degree

When the minute hand is ahead of the hour hand, the angle between the two hands at MM minutes past HH 'o clock
=30(M5−H)−M2 degree=30(M5−H)−M2 degree

Here H = 3, M = 40 and minute hand is ahead of the hour hand.

Hence the angle
=30(M5−H)−M2 =30(405−3)−402 =30(8−3)−20 =30×5−20 =130°=30(M5−H)−M2 =30(405−3) −402 =30(8−3)−20 =30×5−20 =130°

Solution 2

3:40 = 3 hour 40 minutes =34060=34060 hour =323=323 hour =113=113 hour

Angle traced by hour hand in 12 hours = 360°

Hence angle traced by hour hand in 113113 hour
=36012×113=30×113 =10×11=110°=36012×113=30×113 =10×11=110°

Angle traced by minute hand in 60 minutes = 360°

Angle traced by minute hand in 40 minutes
=36060×40=240°=36060×40=240°

Required angle = 240 - 110= 130°

20 Answer: Option A

Explanation:

Solution 1

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Angle between hands of a clock

When the minute hand is behind the hour hand, the angle between the two hands at MM minutes past HH 'o clock
=30(H−M5)+M2=30(H−M5)+M2 degree

When the minute hand is ahead of the hour hand, the angle between the two hands at MM minutes past HH 'o clock
=30(M5−H)−M2 degree=30(M5−H)−M2 degree

Here H = 8, M = 30 and minute hand is behind the hour hand.

Hence the angle
=30(H−M5)+M2 =30(8−305)+302 =30(8−6)+15 =30×2+15 =75°=30(H−M5)+M2 =30(8−305)+302 =30(8−6)+15 =30×2+15 =75°

Solution 2

8.30 = 8 hour 30 minutes =812=812 hour = 172172 hour.

Angle traced by hour hand in 12 hours = 360°

Hence angle traced by hour hand in 177177 hour
=36012×172=30×172 =15×17=255°=36012×172=30×172 =15×17=255°

Angle traced by minute hand in 60 minutes = 360°

Angle traced by minute hand in 30 minutes
=36060×30=180°=36060×30=180°

Required angle = 255- 180= 75°

21 Answer: Option B

Explanation:

The hands of a clock point in opposite directions (in the same straight line, making an angle 180° between them) 11 times in every 12 hours because between 5 and 7 they point in opposite directions at 6 'o clock only.

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Hence the hands point in the opposite directions 22 times in a day.

This is already given as a formula and it's is better to learn the answer by heart as 22 which can save time in competitive exams.(However you should know the theory behind).

22. Answer: Option B

Explanation:

Solution 1

The two hands of a clock will be together between HH and (H+1)(H+1) o' clock at (60H11)(60H11) minutes past HH o' clock.

Here H = 3. Hands will be together at

60H1160H11 minutes past 3

=60×311=60×311 minutes past 3

=18011=18011 minutes past 3

=16411=16411 minutes past 3

Solution 2

At 3 o' clock, the hands are 15 minute spaces apart.

Hence minute hand needs to gain 15 more minute spaces over the hour hand so that the hands will coincide each other.

In 60 minutes, minute hand gains 55 minute spaces over the hour hand.

Hence, time taken for gaining 15 minute spaces by minute hand
=6055×15=6055×15 minute =1211×15=1211×15 minute

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=18011=18011 minute =16411=16411 minute.

Hence hands will coincide at 1641116411 minute past 3

23. Answer: Option B

Explanation:

The hands of a clock coincide 11 times in every 12 hours (Between 11 and 1, they coincide only once, at 12 o'clock).

12:00 am
1:05 am
2:11 am
3:16 am
4:22 am
5:27 am
6:33 am
7:38 am
8:44 am
9:49 am
10:55 am
12:00 pm
1:05 pm
2:11 pm
3:16 pm
4:22 pm
5:27 pm
6:33 pm
7:38 pm
8:44 pm
9:49 pm
10:55 pm

Hence the hands coincide 22 times in a day.

This is already given as a formula and it's is better to learn the answer by heart as 22 which can save time in competitive exams.(However you should know the theory behind).

Solution 2 - Hit and Trial Method

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Just see which of the given choices satisfy the given condtions.

Take 3363. This is not even divisible by 9. Hence this is not the answer.

Take 1108. This is not even divisible by 9. Hence this is not the answer.

Take 2007. This is divisible by 9.
2007 ÷ 5 = 401, remainder = 2 . Hence this is not the answer

Take 1683. This is divisible by 9.
1683 ÷ 5 = 336, remainder = 3
1683 ÷ 6 = 280, remainder = 3
1683 ÷ 7 = 240, remainder = 3
1683 ÷ 8 = 210, remainder = 3
Hence 1683 is the answer

24. Answer: Option A

Explanation:

Product of two numbers = Product of their HCF and LCM.

Let one number =x=x

=> 25×x=5×15025×x=5×150

=> x=5×15025=30x=5×15025=30

25.Answer: Option D

Explanation:

It is clear that 504 = 2 × 2 × 2 × 3 × 3 × 7

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STUTI
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CERTIFICATE OF PERFORMANCE

THIS IS TO CERTIFY THAT

*Mr/Ms*_____*has participated in "Quantitative/ logical reasoning/verbal aptitude and soft skill training" form 9/7/2018 to 27/7/2018 organized by STUTI Team.*

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REPORT ON QUANTITATIVE/ LOGICAL REASONING/VERBAL APTITUDE AND SOFT SKILL TRAINING

The STUTI Team had organized the training on Quantitative/logical reasoning/verbal aptitude and soft skill training from 9/7/2018 to 21/7/2018 and all the final year students attended Pthe training program. The program was successfully organized and carried out by STUTI Team.

The training program covered the following domains

1. Communication skill
2. HR Skills
3. Group Discussion
4. Mock interview

Discussion regarding Quantitative Aptitude, Logical reasoning, Verbal Aptitude and HR Skills

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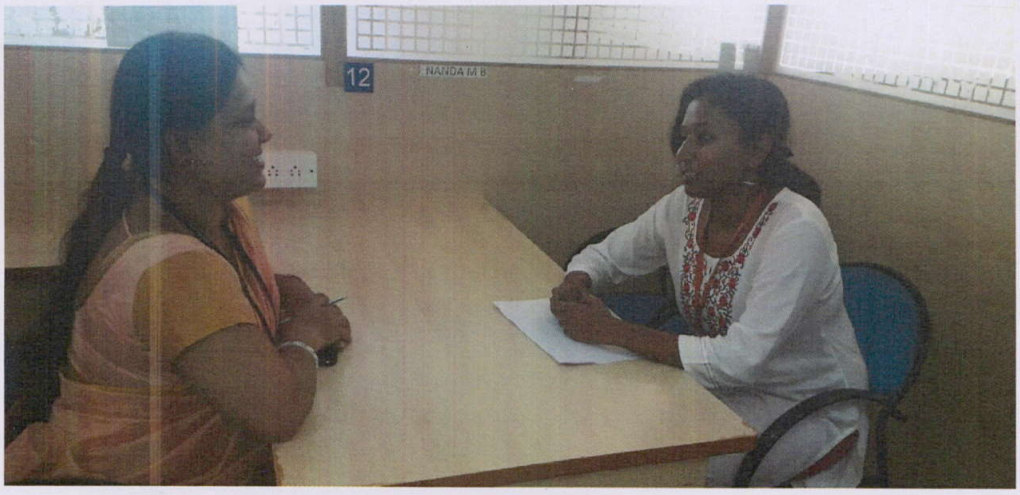

Mock Interview done by the trainer for individual student.

Group Discussion regarding trending technologies.

Convenor

PRINCIPAL

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From,

Convenor
STUTI(Career Guidance and Placement Cell)
Sapthagiri College of Engineering
Bangalore - 560057.

Through
IQAC COORDINATOR
Sapthagiri College of Engineering
Bangalore - 560057.

To,

THE PRINCIPAL
Sapthagiri College of Engineering
Bangalore - 560057.

Respected Sir,

Subject: Requisition to conduct Technical training for pre final years from 23rd July 2018 to 11th August 2018.

In the benefit of student welfare STUTI is Conducting Technical training for final years from 23rd July 2018 to 11th August 2018.So we request you to kindly approve for the above.

Sl.No.	Particular/Head	Amount in Rupees
1	Honorarium	2,99,000
2	Breakfast, Tea, Lunch, High Tea	25,000/-
3	Certificates	10,000/-
4	Miscellaneous	1000/-
	Total Amount Allocated in rupees	**3,35,000/-**

Thanking you

Convener

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Group Head HRD
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17/07/2018

CIRCULAR

This is to inform that all STUTI team members to attend the meeting held on 17/07/2018 at 1:30 PM in Principal cubical.

Agenda of the meeting:

1. To Discuss about Placement training, resource person and to finalize Conduction dates.

2. To Discuss and finalize about Course content.

Sl. No.	Name	Designation		Signature
1	Dr. Ravi. K. N	Professor	Member	
2	Dr.Ranganatha H R	Professor	Member	H R Ranga
3	Madhushree	Asst. Professor	Member	
4	Madhu Kumar Y C	Asst. Professor	Member	
5	Geetha T S	Asst. Professor	Member	
6	Priya kumari	Student	Member	Priya
7	Nikil Gowda C	Student	Member	

Convener

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Group Head HRD
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21/07/2018

MINUTES OF MEETING

The meeting was held by Convenor Stuti Team on 21/07/2018 at 1:30PM in Principal cubical.

Agenda of the meeting:

To Conduct Technical training for pre final years from 23/7/2018 to 11/8/2018.

1. Discussed about resource person, conduction date from 23rd july 2018 to 11th august 2018 also decided Resource person from ladder consultancy service pvt ltd.
2. Discussed about Course content and finalized.
3. Informed STUTI team to coordinate with ladder consultancy service pvt ltd to conduct Placement training smoothly.

DATES	SESSION 1 (8:30AM TO 12:30AM)	SESSION 2 (1:30 TO 4:30PM)
23/7/2018	• C language	• C language
24/7/18	• C language	• C language
25/07/18	• C language	• C language
26/07/18	• C++	• C++
27/07/18	• C++	• C++
28/07/18	• C++	• C++
30/07/18	• Data Structures	• Data Structures
31/07/18	• Data Structures	• Data Structures
1/08/18	• Data Structures	• Data Structures
2/08/18	• DBMS	• DBMS
3/08/18	• DBMS	• DBMS

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4/08/18	• DBMS	• DBMS
6/08/18	• Operating Systems	• Operating Systems
7/08/18	• Operating Systems	• Operating Systems
8/08/18	• Operating Systems	• Operating Systems
9/08/18	• Java	• Java
10/08/18	• Java	• Java
11/08/18	• Big Data	• Big Data

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NOTICE

It is hereby informed to all final year students, that the STUTI team of Sapthagiri College of Engineering is organizing Technical training from 23/7/2018 to 11/8/2018. So all the students are requested to register their names to department coordinator of STUTI team.

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20/07/2018

NOTICE

This to inform all final year students the Schedule of Technical Training is as follows.

The Schedule of the course is as follows,

DATES	SESSION 1 (8:30 AM TO 12:30 PM)	SESSION 2 (1:30 PM TO 4:30PM)
23/7/2018	• C language	• C language
24/7/18	• C language	• C language
25/07/18	• C language	• C language
26/07/18	• C++	• C++
27/07/18	• C++	• C++
28/07/18	• C++	• C++
30/07/18	• Data Structures	• Data Structures
31/07/18	• Data Structures	• Data Structures
1/08/18	• Data Structures	• Data Structures
2/08/18	• DBMS	• DBMS
3/08/18	• DBMS	• DBMS
4/08/18	• DBMS	• DBMS
6/08/18	• Operating Systems	• Operating Systems
7/08/18	• Operating Systems	• Operating Systems
8/08/18	• Operating Systems	• Operating Systems
9/08/18	• Java	• Java
10/08/18	• Java	• Java
11/08/18	• Big Data	• Big Data

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NOTICE

STUTI team hereby informing to all final year students, to attend Scheduled test on Technical Training on 11/8/2018.So all the students are requested to attend the training test without fail.

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QUESTION PAPER

1. Which four options describe the correct default values for array elements of the types indicated?

int -> 0

String -> "null"

Dog -> null

char -> '\u0000'

float -> 0.0f

boolean -> true

A. 1, 2, 3, 4

B. 1, 3, 4, 5

C. 2, 4, 5, 6

D. 3, 4, 5, 6

2. Which one of these lists contains only Java programming language keywords?

A. class, if, void, long, Int, continue

B. goto, instanceof, native, finally, default, throws

C. try, virtual, throw, final, volatile, transient

D. strictfp, constant, super, implements, do

E. byte, break, assert, switch, include

3. Which will legally declare, construct, and initialize an array?

A. int [] myList = {"1", "2", "3"};

B. int [] myList = (5, 8, 2);

C. int myList [] [] = {4,9,7,0};

D. int myList [] = {4, 3, 7};

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4. Which is a reserved word in the Java programming language?

A. method

B. native

C. subclasses

D. reference

E. array

5. Which is a valid keyword in java?

A. interface

B. string

C. Float

D. unsigned

6.What are the different types of real data type in C ?

A. float, double

B. short int, double, long int

C. float, double, long double

D. double, long int, float

7. What will you do to treat the constant 3.14 as a long double?

A. use 3.14LD

B. use 3.14L

C. use 3.14DL

D. use 3.14LF

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C.candidate keys.

D.foreign keys.

21. Which of the following statements is correct about the C#.NET code snippet given below?

```
class Student s1, s2; // Here 'Student' is a user-defined class.
s1 = new Student();
s2 = new Student();
```

A.Contents of s1 and s2 will be exactly same.

B.The two objects will get created on the stack.

C.Contents of the two objects created will be exactly same.

D.The two objects will always be created in adjacent memory locations.

E.We should use delete() to delete the two objects from memory.

22. Which of the following statements is correct about the C#.NET code snippet given below?

```
class Sample
{
   private int i;
   public Single j;
   private void DisplayData()
   {
      Console.WriteLine(i + " " + j);
   }
   public void ShowData()
   {
      Console.WriteLine(i + " " + j);
```

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```
    }
}
```

A.j cannot be declared as public.

B.DisplayData() cannot be declared as private.

C.DisplayData() cannot access j.

D.ShowData() cannot access to i.

E.There is no error in this class.

23. Which of the following statements are correct?

Instance members of a class can be accessed only through an object of that class.

A class can contain only instance data and instance member function.

All objects created from a class will occupy equal number of bytes in memory.

A class can contain Friend functions.

A class is a blueprint or a template according to which objects are created.

A.1, 3, 5

B.2, 4

C.3, 5

D.2, 4, 5

E.None of these

24. Which of the following statements is correct?

A.Procedural Programming paradigm is different than structured programming paradigm.

B.Object Oriented Programming paradigm stresses on dividing the logic into smaller parts and writing procedures for each part.

C.Classes and objects are corner stones of structured programming paradigm.

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C.Both A and B.

D.We cannot use the constant while defining the function.

13 Which of the following statement is correct?

A.Overloaded functions can have at most one default argument.

B.An overloaded function cannot have default argument.

C.All arguments of an overloaded function can be default.

D.A function if overloaded more than once cannot have default argument.

14. Which of the following statement is correct?

A.Two functions having same number of argument, order and type of argument can be overloaded if both functions do not have any default argument.

B.Overloaded function must have default arguments.

C.Overloaded function must have default arguments starting from the left of argument list.

D.A function can be overloaded more than once.

15. Which of the following statement will be correct if the function has three arguments passed to it?

A.The trailing argument will be the default argument.

B.The first argument will be the default argument.

C.The middle argument will be the default argument.

D.All the argument will be the default argument.

16. Every time attribute A appears, it is matched with the same value of attribute B, but not the same value of attribute C. Therefore, it is true that:

A. $A \rightarrow B$.

B. $A \rightarrow C$.

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C. A → (B,C).

D. (B,C) → A.

17. The different classes of relations created by the technique for preventing modification anomalies are called:

A.normal forms.

B.referential integrity constraints.

C.functional dependencies.

D.None of the above is correct.

18. A relation is in this form if it is in BCNF and has no multivalued dependencies:

A.second normal form.

B.third normal form.

C.fourth normal form.

D.domain/key normal form.

19. Row is synonymous with the term:

A. record.

B. relation.

C. column.

D. field.

20. The primary key is selected from the:

A.composite keys.

B.determinants.

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8. If the binary eauivalent of 5.375 in normalised form is 0100 0000 1010 1100 0000 0000 0000 0000. what will be the output of the program (on intel machine)?

```
#include<stdio.h>

#include<math.h>

int main()

{

   float a=5.375;

   char *p;

   int i;

   p = (char*)&a;

   for(i=0; i<=3; i++)

      printf("%02x\n", (unsigned char)p[i]);

   return 0;

}
```

A. 40 AC 00 00

B. 04 CA 00 00

C. 00 00 AC 40

D. 00 00 CA 04

9. Which of the following range is a valid long double (Turbo C in 16 bit DOS OS) ?

A. 3.4E-4932 to 1.1E+4932

B. 3.4E-4932 to 3.4E+4932

C. 1.1E-4932 to 1.1E+4932

D. 1.7E-4932 to 1.7E+4932

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10. Which statement will you add in the following program to work it correctly?

```
#include<stdio.h>
int main()
{
   printf("%f\n", log(36.0));
   return 0;
}
```

A. #include<conio.h>

B. #include<math.h>

C. #include<stdlib.h>

D. #include<dos.h>

11. Which of the following function prototype is perfectly acceptable?

A.int Function(int Tmp = Show());

B.float Function(int Tmp = Show(int, float));

C.Both A and B.

D.float = Show(int, float) Function(Tmp);

11.Answer: Option A

Explanation:

No answer description available for this question. Let us discuss.

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12. Which of the following statement is correct?

A.C++ enables to define functions that take constants as an argument.

B.We cannot change the argument of the function that that are declared as constant.

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D.Object Oriented Programming paradigm gives equal importance to data and the procedures that work on the data.

E.C#.NET is a structured programming language.

25. Which of the following is the correct way to create an object of the class Sample?

Sample s = new Sample();

Sample s;

Sample s; s = new Sample();

s = new Sample();

A.1, 3

B.2, 4

C.1, 2, 3

D.1, 4

E.None of these

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SCHEME

QUESTION PAPER

1.Answer: Option B

Explanation:

(1), (3), (4), (5) are the correct statements.

(2) is wrong because the default value for a String (and any other object reference) is null, with no quotes.

(6) is wrong because the default value for boolean elements is false.

2.Answer: Option B

Explanation:

All the words in option B are among the 49 Java keywords. Although goto reserved as a keyword in Java. goto is not used and has no function.

Option A is wrong because the keyword for the primitive int starts with a lowercase i.

Option C is wrong because "virtual ' is a keyword in C++, but not Java.

Option D is wrong because "constant" is not a keyword. Constants in Java are marked static and final.

Option E is wrong because "include" is a keyword in C, but not in Java.

3.Answer: Option D

Explanation:The only legal array declaration and assignment statement is Option D

Option A is wrong because it initializes an int array with String literals.

Option B is wrong because it use something other than curly braces for the initialization.

Option C is wrong because it provides initial values for only one dimension, although the declared array is a two-dimensional array.

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4.Answer: Option B

Explanation:

The word "native" is a valid keyword, used to modify a method declaration.

Option A, D and E are not keywords. Option C is wrong because the keyword for subclassing in Java is extends, not 'subclasses'.

5.Answer: Option A

Explanation:

interface is a valid keyword.

Option B is wrong because although "String" is a class type in Java, "string" is not a keyword.

Option C is wrong because "Float" is a class type. The keyword for the Java primitive is float.

Option D is wrong because "unsigned" is a keyword in C/C++ but not in Java

6.Answer: Option C

Explanation:

The floating point data types are called real data types. Hence float, double, and long double are real data types.

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7. Answer: Option B

Explanation:

Given 3.14 is a double constant.

To specify 3.14 as long double, we have to add L to the 3.14. (i.e 3.14L)

8.Answer: Option C

Explanation:

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No answer description available for this question. Let us discuss.

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9.Answer: Option A

Explanation:

The range of long double is 3.4E-4932 to 1.1E+4932

10. Which statement will you add in the following program to work it correctly?

```
#include<stdio.h>
int main()
{
   printf("%f\n", log(36.0));
   return 0;
}
```

A. #include<conio.h>

B. #include<math.h>

C. #include<stdlib.h>

D. #include<dos.h>

11.Answer: Option A

Explanation:

No answer description available for this question. Let us discuss.

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12.Answer: Option C

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Explanation:

No answer description available for this question. Let us discuss.

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13.Answer: Option C

Explanation:

No answer description available for this question. Let us discuss.

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14.Answer: Option D

Explanation:

No answer description available for this question. Let us discuss.

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15.Answer: Option A

16.Answer: Option A

Explanation:

No answer description available for this question. Let us discuss.

17.Answer: Option A

Explanation:

No answer description available for this question. Let us discuss.

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18.Answer: Option C

19.Answer: Option A

Explanation:

No answer description available for this question. Let us discuss.

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20.Answer: Option C

21.Answer: Option C

22.Answer: Option E

Explanation:

No answer description available for this question. Let us discuss.

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23. Which of the following statements are correct?

Instance members of a class can be accessed only through an object of that class.

A class can contain only instance data and instance member function.

All objects created from a class will occupy equal number of bytes in memory.

A class can contain Friend functions.

A class is a blueprint or a template according to which objects are created.

A.1, 3, 5

B.2, 4

C.3, 5

D.2, 4, 5

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E.None of these

23.Answer: Option A.

24.Answer: Option D

25.Answer: Option A

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REPORT ON TECHNICAL TRAINING

The STUTI Team had organized the training on Technical training from 23/7/2018 to 11/8/2018 and all the final year students attended the training program. The program was successfully organized and carried out by STUTI Team.

The training program covered the following domains

1. C
2. C++
3. Data Structures
4. DBMS
5. JAVA
6. Big Data

SCREENSHOT OF THE PROGRAM

Discussion regarding C, C++, Data Structures, DBMS, JAVA, Big Data

Convenor

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