STUTI
Standard Operating Procedures

1. Students should register themselves for placements with Department Coordinator of STUTI team in the beginning of the 6th Semester.

2. Department Coordinator of STUTI will collect data from students and create student list with aggregate and submit to the Placement Officer

3. Placement Training Program will be organised for all the students, it is mandatory to undergo training program if students wants to appear in selection process.

4. Based on the company request students database after obtaining willingness from students will be shared with the company.

5. Campus recruitment dates will be confirmed based on the mutual convenient days.

6. Students will be informed about the company visit three days in advance.

7. Results will be announced to the students at the end of the recruitment process.

8. Once the students receive the offer letter by mail, they have been asked to submit the same to the department coordinator of STUTI.

Principal
Sapthagiri College of Engineering
Chikkasandra, Hesaraghatta Road,
Bangalore- 560 057

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

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

SAPTHAGIRI
College of Engineering
Creating Tomorrow

Placements offered by our college sections into Two categories as

General Placements

Dream Slots

General Placements:

This involves companies with salary package up to 3 lakhs p.a.

Companies adhering to SHARING SLOT offer placements like EQUITAS, HP, I- EXCEED, TORRY HARRIS and also other companies visiting for recruitment in the salary up to 3 Lakhs P.A.

The eligibility criteria would be 10th, 12th - 60 % each and CGPA of 6.0 and above with no standing arrears. Eligibility could vary as per company's requirements.

Dream Slots:

Dream slot companies are like TECH MAHINDRA, IBM, ACCORD SYSTEMS, WIPRO, ARICENT TECHNOLOGIES, and DELL. The salary range is from 3 Lakhs to 6 Lakhs per annum.

The eligibility criteria would be 10th, 12th – 70 % each and CGPA of 7.0 and above with no standing arrears.

If Students selected in this category cannot appear for other companies unless the pay is above 6 Lakh P.A.

Convener

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

Principal
Sapthagiri College of Engineering
Chikkasandra, Hesaraghatta Road,
Bangalore- 560 057

Principal
Sapthagiri College of Engineering
Chikkasandra, Hesaraghatta Road,
Bangalore- 560 057

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 Career counselling / Personnel counselling /verbal aptitude and soft skill training for 3rd & 5th sem students from 27th July 2015 to 1st Aug 2015.

In the benefit of student welfare STUTI is Conducting training on Quantitative/ logical reasoning/verbal aptitude and soft skill training for pre final years from 27th July 2015 to 1st Aug 2015. So we request you to kindly approve for the above.

Sl.No.	Particular/Head	Amount in Rupees
1	Honorarium	1,00,575/-
2	Breakfast, Tea, Lunch, High Tea	5,000/-
3	Certificates	5,000/-
4	Miscellaneous	1000/-
	Total Amount Allocated in rupees	**1,11,575/-**

Thanking you

Principal
Sapthagiri College of Engineering
14/5, Chikkasandra, Hesaraghatta Main Road
Bengaluru - 560 057

Convenor

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

Principal
Sapthagiri College of Engineering
14/5, Chikkasandra, Hesaraghatta Main Road
Bengaluru - 560 057

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

SAPTHAGIRI
College of Engineering
Creating Tomorrow

24/07/2015

STUTI
CIRCULAR

This is to inform that all STUTI team members to attend the meeting held on 25/07/2015 at

1:30PM in Principal Cabin.

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	Prof .Prerana Chaithra	Associate Professor	Member	
3	Prof. Shobha Hugar	Asst. Professor	Member	Shobha
4	Prof. Shobha G	Asst. Professor	Member	
5	Prof .Madhushree	Asst. Professor	Member	
6	Prof .Madhu Kumar Y C	Asst. Professor	Member	
7	C Rakshith	Student	Member	C Rakshith
8	Chaitra C Mouli	Student	Member	Chaithra C Mouli

Convener

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

PRINCIPAL

Principal
Sapthagiri College of Engineering
14/5, Chikkasandra, Hesaraghatta Main Road
Bengaluru - 560 057

Principal
Sapthagiri College of Engineering
14/5, Chikkasandra, Hesaraghatta Main Road
Bengaluru - 560 057

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

25/07/2015

STUTI
MINUTES OF MEETING

The meeting was held by GROUP HEAD OF HRD on 25/07/2015 at 1:30PM in Principal Cabin.

Agenda of the meeting:

To conduct training on Quantitative/ logical reasoning/verbal aptitude and soft skill training for 3rd & 5th sem students from 27th July 2015 to 1st Aug 2015.

1. Discussed about resource person, conduction date (27/7/15 to 1/8/15) 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
27/7/15	Introduction to Communication Soft Skill • Verbal Communication	Communication Skill • Non Verbal Communication
28/7/15	• Visual Communication • Written Communication	• Active Listening • Clarity
29/7/15	• Confidence • Interviewing	• Compound interest • Clock
30/7/15	• Negotiation	• Personal Branding
31/7/15	• Persuasion	• Presentation Skills
1/8/15	• Group discussion	• Mock Interview

Convener

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

PRINCIPAL

Principal
Sapthagiri College of Engineering
14/5, Chikkasandra, Hesaraghatta Main Road
Bengaluru - 560 057

Principal
Sapthagiri College of Engineering
14/5, Chikkasandra, Hesaraghatta Main Road
Bengaluru - 560 057

NOTICE

It is hereby informed to all 3rd & 5th sem students, that the STUTI team of Sapthagiri College of engineering is organizing training on Career counselling / Personnel counselling /verbal aptitude and soft skill training for 3rd & 5th sem students from 27/7/2015 to 1/8/2015. So all the students are requested to register their names to department coordinator of STUTI team.

Principal
Sapthagiri College of Engineering
14/5, Chikkasandra, Hesaraghatta Main Road
Bengaluru - 560 057

Convenor

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

Principal
Sapthagiri College of Engineering
14/5, Chikkasandra, Hesaraghatta Main Road
Bengaluru - 560 057

NOTICE

This to inform all final year students that Schedule of Career counselling / Personnel counselling / soft skill training are as follows.

DATES	SESSION 1	SESSION 2
27/7/15	Introduction to Communication Soft Skill	Communication Skill • Non Verbal Communication
28/7/15	• Visual Communication • Written Communication	• Active Listening • Clarity
29/7/15	• Confidence • Interviewing	• Compound interest • Clock
30/7/15	• Negotiation	• Personal Branding
31/7/15	• Persuasion	• Presentation Skills
1/8/15	• Group discussion	• Mock Interview

Principal
Sapthagiri College of Engineering
14/5, Chikkasandra, Hesaraghatta Main Road
Bengaluru - 560 057

Convenor

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

Principal
Sapthagiri College of Engineering
14/5, Chikkasandra, Hesaraghatta Main Road
Bengaluru - 560 057

NOTICE

STUTI team hereby informing to all 3rd & 5th sem students, to attend Scheduled test on Career counselling / Personnel counselling / soft skill training on 6/8/2015. So all the students are requested to attend the training test without fail.

Principal
Sapthagiri College of Engineering
14/5, Chikkasandra, Hesaraghatta Main Road
Bengaluru - 560 057

Convenor

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

Principal
Sapthagiri College of Engineering
14/5, Chikkasandra, Hesaraghatta Main Road
Bengaluru - 560 057

QUESTION PAPER

1. 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

C. 64   D. 42

2. 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

3. 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

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

A. 160   B. 220

C. 120   D. 180

5.. 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

6 . 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

7. 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. $2 \times 2 \times 2 \times 3 \times 3 \times 7$

Principal
Sapthagiri College of Engineering
Chikkasandra, Hesaraghatta Road,
Bangalore-560 057

Principal
Sapthagiri College of Engineering
14/5, Chikkasandra, Hesaraghatta Main Road
Bengaluru - 560 057

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

A. 101

B. 99

C. 182

D. 176

9. 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

10. 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

11. 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°

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

A. 5 minutes past 7

B. 53115311 minutes past 7

C. 51115111 minutes past 7

D. 55115511 minutes past 7

13. 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

14. 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°

15. 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°

16. 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°

17. 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

18. 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

C. 4371143711 minutes past 5   D. 43 minutes past 5

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

A. 24   B. 22

20. 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

21. 504 can be expressed as a product of primes as

A. 2 × 2 × 3 × 3 × 7 × 7   B. 2 × 3 × 3 × 3 × 7 × 7

C. 2 × 3 × 3 × 3 × 3 × 7   D. 2 × 2 × 2 × 3 × 3 × 7

22. 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

23. 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

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

A. 70   B. 60

C. 50   D. 40

25. 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

26. .Point out the error in the program?

```c
#include<stdio.h>
#include<stdlib.h>

int main()
{
unsigned char;
FILE *fp;
fp=fopen("trial", "r");
if(!fp)
{
printf("Unable to open file");
exit(1);
}
fclose(fp);
return 0;
}
```

A. Error: in unsigned char statement

B. Error: unknown file pointer

C. No error

D. None of above

27. .Point out the error in the program?

```c
#include<stdio.h>
```

Principal
Sapthagiri College of Engineering
Chikkasandra, Hesaraghatta Road,
Bangalore-560 057

Principal
Sapthagiri College of Engineering
14/5, Chikkasandra, Hesaraghatta Main Road,
Bengaluru - 560 057

```
int main()
{
char ch;
int i;
scanf("%c", &i);
scanf("%d", &ch);
printf("%c %d", ch, i);
return 0;
}
```

A. Error: suspicious char to in conversion in scanf()

B. Error: we may not get input for second scanf() statement

C. No error

D. None of above

28..Point out the error/warning in the program?

```
#include<stdio.h>

int main()
{
unsigned char ch;
FILE *fp;
fp=fopen("trial", "r");
while((ch = getc(fp))!=EOF)
printf("%c", ch);
fclose(fp);
return 0;
}
```

A. Error: in unsigned char declaration

B. Error: while statement

C. No error

D. It prints all characters in file "trial"

29. .The keyword used to transfer control from a function back to the calling function is

A. switch

B. goto

C. go back

D. return

30.A function cannot be defined inside another function

SCHEME

1. 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 × 8 = 40

2. Answer: Option B

Explanation:

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

3. 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

4. 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

5. Answer: Option B

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.

---

6. 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

7. Answer: Option D

Explanation:

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

8. Answer: Option D

Explanation:

$99 = 1 \times 3 \times 3 \times 11$
=> Divisors of 99 are 1, 3, 11, 9, 33 and 99

$101 = 1 \times 101$
=> Divisors of 101 are 1 and 101

$182 = 1 \times 2 \times 7 \times 13$
=> Divisors of 182 are 1, 2, 7, 13, 14, 26, 91 and 182

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

Hence 176 has most number of divisors.

9. Answer: Option D

Explanation:

LCM of 3, 5, 7 and 8 = 840

$28523 \div 840 = 33$ remainder = 803

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

10. .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

$2772 \div 2 = 1386$

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.

11..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°

12. .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

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

13. .Answer: Option C

Explanation

Solution 1

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

14. Answer: Option A

Explanation:

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
$=30(H-\frac{M}{5})+\frac{M}{2}=30(H-\frac{M}{5})+\frac{M}{2}$ degree

When the minute hand is ahead of the hour hand, the angle between the two hands at MM minutes past HH 'o clock
$=30(\frac{M}{5}-H)-\frac{M}{2}$ degree$=30(\frac{M}{5}-H)-\frac{M}{2}$ degree

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

Hence the angle
$=30(H-\frac{M}{5})+\frac{M}{2}$ $=30(5-\frac{15}{5})+\frac{15}{2}$ $=30(5-3)+7.5$ $=30\times2+7.5$ $=67.5°=30(H-\frac{M}{5})+\frac{M}{2}$ $=30(5-\frac{15}{5})+\frac{15}{2}$ $=30(5-3)+7.5$ $=30\times2+7.5$ $=67.5°$

15. Answer: Option B

Explanation:

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
$=30(H-\frac{M}{5})+\frac{M}{2}=30(H-\frac{M}{5})+\frac{M}{2}$ degree

When the minute hand is ahead of the hour hand, the angle between the two hands at MM minutes past HH 'o clock
$=30(\frac{M}{5}-H)-\frac{M}{2}$ degree$=30(\frac{M}{5}-H)-\frac{M}{2}$ 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°

16. Answer: Option A

Explanation:

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 = 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°

17. 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.

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).

18. 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

$=60\times311=60\times311$ minutes past 3

$=18011=18011$ minutes past 3

$=16411=16411$ minutes past 3

19. 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).

20.. Answer: Option A

Explanation:

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

Let one number $=x=x$

$\Rightarrow 25 \times x = 5 \times 150 \quad 25 \times x = 5 \times 150$

$\Rightarrow x = \dfrac{5 \times 150}{25} = 30 \quad x = \dfrac{5 \times 150}{25} = 30$

21. Answer: Option D

Explanation:

It is clear that $504 = 2 \times 2 \times 2 \times 3 \times 3 \times 7$

22. Answer: Option C

Explanation:

Let present age of P and Q be $3x$ $3x$ and $4x$ $4x$ respectively.

Ten years ago, P was half of Q's age
$\Rightarrow (3x-10) = \dfrac{1}{2}(4x-10) \Rightarrow 6x-20 = 4x-10 \Rightarrow 2x=10 \Rightarrow x=5 \Rightarrow (3x-10) = \dfrac{1}{2}(4x-10) \Rightarrow 6x-20 = 4x-10 \Rightarrow 2x=10 \Rightarrow x=5$

Total of their present ages
$=3x+4x=7x=7 \times 5=35 = 3x+4x=7x=7 \times 5=35$

23. 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 $=2\dfrac{1}{2}=2\dfrac{1}{2}$ times of Sunils' age
$\Rightarrow (4x+8) = 2\dfrac{1}{2}(x+8) \Rightarrow 4x+8 = \dfrac{5}{2}(x+8) \Rightarrow 8x+16=5x+40 \Rightarrow 3x=40-16=24 \Rightarrow x=\dfrac{24}{3}=8 \Rightarrow (4x+8)=2\dfrac{1}{2}(x+8) \Rightarrow 4x+8=\dfrac{5}{2}(x+8) \Rightarrow 8x+16=5x+40 \Rightarrow 3x=40-16=24 \Rightarrow x=\dfrac{24}{3}=8$

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

24. Answer: Option C

Explanation:

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

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

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

25. 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

26.Answer: Option C
Explanation:
This program tries to open the file trial.txt in read mode. If file not exists or unable to read it prints "Unable to open file" and then terminate the program.

If file exists, it simply close the file and then terminates the program.

27Answer: Option B
Because this is the peculiarity of scanf(). After supplying data for the int i variable we would hit the enter key. What scanf() does it assigns the value what we gave to the variable i and keeps the enter key unread in the keyboard buffer (standard i/o buffer) , so when its time to supply another value the 2nd scanf() statement will read the enter key from the buffer thinking that user has entered the enter key. To AVOID this problem. WE USE THE FUNCTION flush (stdin). It is designed to remove or 'flush out' any data remaining in the buffer.

28.Answer: Option A
Explanation:
Here, EOF is -1. As 'ch' is declared as unsigned char it cannot deal with any negative value.

29.Answer: Option D
Explanation:
The keyword return is used to transfer control from a function back to the calling function.
Example:

```
#include<stdio.h>
int add(int, int); /* Function prototype */

int main()
{
    int a = 4, b = 3, c;
    c = add(a, b);
    printf("c = %d\n", c);
    return 0;
}
int add(int a, int b)
{
/* returns the value and control back to main() function */
    return (a+b);
}
```

Output:
c = 7

30.Answer: Option **A**
Explanation:

A function cannot be defined inside the another function, but a function can be called inside a another function.

Placement

SAPTHAGIRI
College of Engineering
Creating Tomorrow

LCS

STUTI
CAREER GUIDANCE AND PLACEMENT CELL

CERTIFICATE OF PERFORMANCE

THIS IS TO CERTIFYTHAT

Mr/Ms _____ *has participated in*
"Vocational Education and Training (VET)" from 6/7/2015 to 5/8/2015
organized by STUTI Team.

CONVENOR

PRINCIPAL

2 .REPORT ON CAREER COUNSELLING AND SOFT SKILL TRAINING

The Placement department of Sapthagiri College of engineering organized the Placement training on Career counselling and soft skill training from 27/7/2015 01/08/2015 and all the 3rd & 5th semester students attended the training program. The program was successfully organized and carried out by placement department.

The training program covered the following domains

1. Communication skill

2. HR Skills

3. Group Discussion

4. Mock interview

FEW SCREENSHOTS OF THE PROGRAM

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

Principal
Sapthagiri College of Engineering
14/5, Chikkasandra, Hesaraghatta Main Road
Bengaluru - 560 057

GROUP DISCUSSION

Convener

Principal

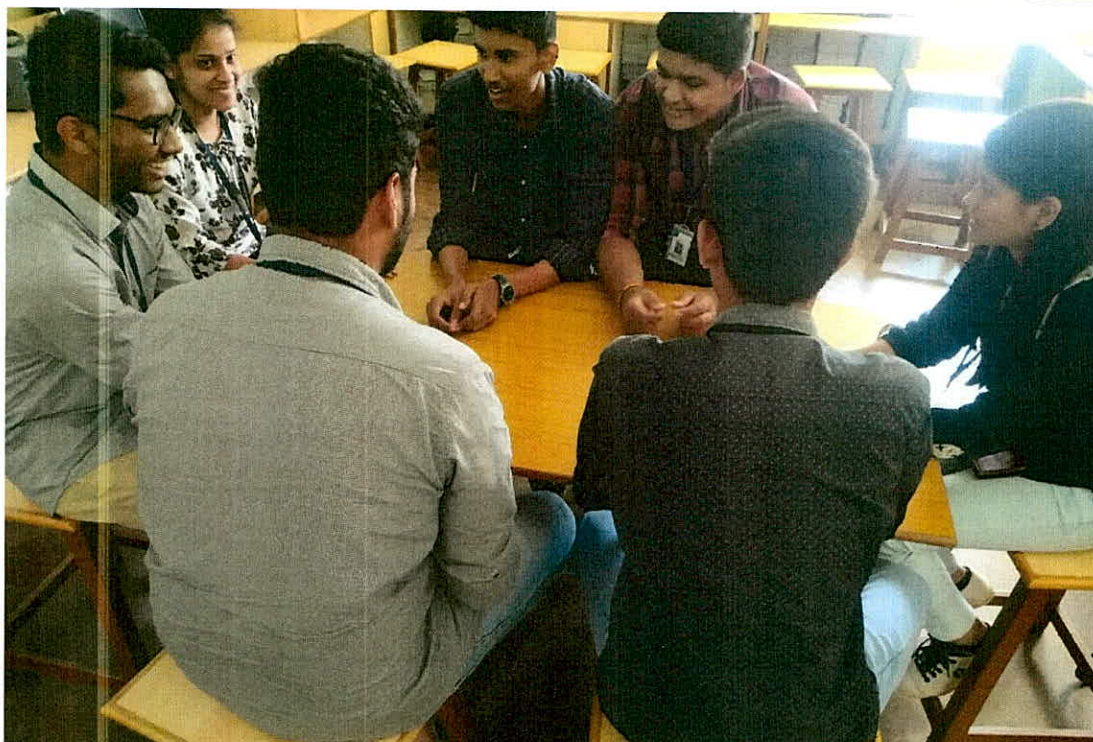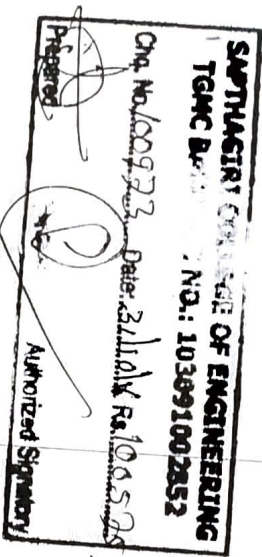SCE-2015-16

Contra Voucher

No. : 691

Dated : 17-Oct-2016

To	Particulars		Debit	Credit
TGMC-103091002852				
SBI- 30263521464		Dr	1,00,575.00	1,00,575.00

SAPTHAGIRI COLLEGE OF ENGINEERING
TGMC Bank
.NO.: 103091002852
Chq.No.100977 Date: 31/10/16 Rs.100575.00

Prepared

Authorized Signatory

On Account of :
Being towards transfer of
funds (Tds on M/s Ladder
consultancy)

	₹ 1,00,575.00	₹ 1,00,575.00

Checked by

Authorised Signatory

SCE-2015-16

Payment Voucher

No. : 2256

Dated : 17-Oct-2016

Account :	Particulars		Amount
M/s.Ladder Consultancy Services Pvt Ltd			
Agst Ref LSC/TS/579/08/16	9,05,175.00 Dr		9,05,175.00

SAPTHAGIRI COLLEGE OF ENGINEERING
TGMC Bank
.NO.: 103091002852
Chq.No.100930 Date: 31/10/16 Rs.905175.00

Prepared

Authorized Signatory
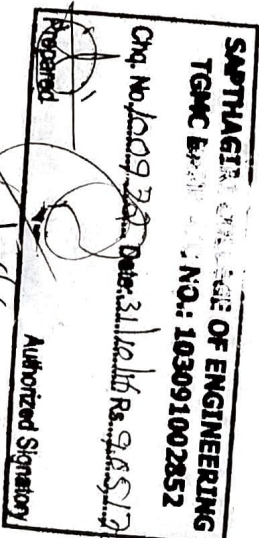
Through :
TGMC-103091002852

On Account of :
Being amount paid towards training of 1341
students each @750 students (training given
for 3 rd & 5 th sem students agasint Bill.No
LSC/TS/579/08/16)

Amount (in words) :
INR Nine Lakh Five Thousand One Hundred
Seventy Five Only

	₹ 9,05,175.00

Receiver's Signature:

Authorised Signatory