Directions of Test

Test Name	LPU CA 02 - 01 (A)	Total Questions	30	Total Time	50 Mins

Section Name	No. of Questions	Time limit	Marks per Question	Negative Marking
Section 1	6	0:10(h:m)	1	1/4
Section 2	6	0:10(h:m)	1	1/4
Section 3	6	0:10(h:m)	1	1/4
Section 4	6	0:10(h:m)	1	1/4
Section 5	6	0:10(h:m)	1	1/4

Section : Section 1

DIRECTIONS for the question: *Solve the following question and mark the best possible option.*

Question No. : 1

A father has two sons. Four years ago, father was three times as old as his eldest son and four years hence the eldest son will be twice as old as the younger son. If the younger son is now 8 years old, find the father's present age.

A) 52 years B) 48 years C) 64 years D) 44 years

DIRECTIONS for the question: *Solve the following question and mark the best possible option.*

Question No. : 2

Seven years ago, the ratio of the ages of Sonu and Suresh was 3:4 respectively. 9 years hence, the ratio of their ages will be 7:8 respectively. What is the present age of Suresh?

A) 20 yrs B) 23 yrs C) 19 yrs D) 16 yrs

DIRECTIONS for the question: *Solve the following question and mark the best possible option.*

Question No. : 3

A family has 3 members (father, mother, and a daughter). Father's age is twice that of daughter's age and mother's present age is twice that of daughter's age two years ago. The sum of the ages of father and mother is 92. What is the present age of the daughter?

A) 22 years B) 24 years C) 26 years D) 28 years

DIRECTIONS for the question: *Solve the following question and mark the best possible option.*

Question No. : 4

Six years ago, the age of Ally was 4 times that of Bally, and the age of Cally was 2 times that of Bally. If the present age of Ally is 1.5 times the present age of Cally, then the present age of Bally is

A) 3 years B) 12 years C) 6 years D) 9 years

DIRECTIONS for the question: *Solve the following question and mark the best possible option.*

Question No. : 5

Present age of Rajesh is 4/3 times of what it was ten years ago. Find his present age.

A) 40 years B) 35 years C) 44 years D) 28 years

DIRECTIONS for the question: *Solve the following question and mark the best possible option.*

Question No. : 6

The sum of present ages of Arun and Barun is 7 times the difference of their ages. 5 years hence, their total ages will be 9 times the difference of their ages. What is the twice of present age of elder one?

A) 40 B) 60 C) 22 D) 30

Section : Section 2

DIRECTIONS for the question: *Solve the following question and mark the best possible option.*

Question No. : 7

Milk and water are in a can A as 4:1 and in can B as 3:2. For can C, if one takes equal quantities from A and B, find the ratio of milk to water in C.

A) 7:3 B) 4:7 C) 3:5 D) 5:4

DIRECTIONS for the question: *Solve the following question and mark the best possible option.*

Question No. : 8

Seats for Mathematics, Physics and Biology in a school are in the ratio 5 : 7 : 8. There is a proposal to increase these seats by 40%, 50% and 75% respectively. What will be the ratio of increased seats?

A) 2: 3: 4 B) 6: 7: 8 C) 6: 8: 9 D) None of these

DIRECTIONS for the question: *Solve the following question and mark the best possible option.*

Question No. : 9

The age proportion of a trio of grandfather, father, and son at present is 5:3:1 and the age gap between the father and son is 20 years. The age proportion of the trio will become 3:2:1 after

A) 5 years B) 10 years C) 15 years D) 20 years

DIRECTIONS for the question: *Solve the following question and mark the best possible option.*

Question No. : 10

In a colored painting, red and green colors are used in ratio of 5 : 3 respectively. If in the upper half, ratio of red and green is 3 :2, then in the lower half, what is the ratio of red to green color?

A)13:7 B)5:2 C)11:3 D)13:17

DIRECTIONS for the question: *Solve the following question and mark the best possible option.*

Question No. : 11

In a cage, there are sparrows, parrots and doves in the ratio 3:7:5. If the number of parrots was more that the number of sparrows by a multiple of both 9 and 7, what is the minimum number of birds in the cage?

A) 630 B) 238 C) 945 D) None of these

DIRECTIONS for the question: *Solve the following question and mark the best possible option.*

Question No. : 12

If p : q = 2 : 3 and q : r = 9 : 8, then what is the value of $\frac{p}{\sqrt{p^2+r^2}}$
A) 3/5 B) 1/3 C) 2/5 D) 2/3

Section : Section 3

DIRECTIONS for the question: *Solve the following question and mark the best possible option.*

Question No. : 13

Anil and Ruhi started a business by investing Rs. 2000 and Rs. 2800 respectively. After 8 months, Anil added Rs. 600 and Ruhi added Rs. 400. At the same time Teena joined them with Rs. 4200. Find the share of Teena if they get a profit of Rs. 34,300 after a year.

A) Rs.7700 B) Rs.7350 C) Rs. 11550 D) Rs.15400

DIRECTIONS for the question: *Solve the following question and mark the best possible option.*

Question No. : 14

Nirdesh started a business by investing Rs. 30,000. Three months later Hirdesh joined the business by investing Rs. 30,000. At the end of year, Nirdesh got Rs. 2000 more than Hirdesh out of the total profit. Find the total profit.

A) Rs. 7000 B) Rs. 9000 C) Rs. 11500 D) Rs. 14000

DIRECTIONS for the question: *Solve the following question and mark the best possible option.*

Question No. : 15

Sankar, Srinivas and Manohar start a business with Rs. 40,000, Rs. 30,000 and Rs. 70,000 respectively. Srinivas and Manohar leave after 5 months and 7 months respectively. Who gets the largest share of profit at the end of the year ?

A) Shankar B) Srinivas C) Manohar D) Cannot be determined

DIRECTIONS for the question: *Solve the following question and mark the best possible option.*

Question No. : 16

A, B and C enter into a partnership by investing in the ratio of 3 : 2 : 4. After one year, B invests another Rs. 2,70,000 and C, at the end of 2 years invests Rs. 2,70,000. At the end of three years, profits are shared in the ratio of 3 : 4 : 5. Find the initial investment of A, B and C.

A) Rs. 2,70,000; Rs. 1,80,000 and Rs. 3,60,000 B) Rs. 1,70,000; Rs. 1,80,000 and Rs. 3,60,000
C) Rs. 2,70,000; Rs. 80,000 and Rs. 3,60,000 D) Rs. 2,70,000; Rs. 1,80,000 and Rs. 3,00,000

DIRECTIONS for the question: *Solve the following question and mark the best possible option.*

Question No. : 17

In a business, A and C invested amounts in the ratio 2:1, whereas the ratio between amounts invested by A and B was 3:2. If Rs. 1,57,300 was their profit, how much amount did B receive?

A) Rs. 24,200 B) Rs. 36,300 C) Rs. 48,400 D) Rs. 72,600

DIRECTIONS for the question: *Solve the following question and mark the best possible option.*

Question No. : 18

Narendra & Mahendra invested Rs.12000 and Rs. 18000 respectively in a business. If the total profit at the end of the year is Rs. 7000 and Narendra being an active partner, gets an additional 15% of the profit, find the total profit of Narendra.

A) Rs. 3750 B) Rs. 3430 C) Rs. 3600 D) Rs. 3475

Section : Section 4

DIRECTIONS for the question: *Solve the following question and mark the best possible option.*

Question No. : 19

The Drizzle Pvt. Ltd., a squash company has 2 cans of juice. The first contains 25% water and the rest is fruit pulp. The second contains 50% water and rest is fruit pulp; How much juice should be mixed from each of the containers so as to get 12 litres of juice such that the ratio of water to fruit pulp is 3:5?

A) 6 litres, 6 litres B) 4 litres, 8 litres C) 5 litres, 7 litres D) 9 litres, 3 litres

DIRECTIONS for the question: *Solve the following question and mark the best possible option.*

Question No. : 20

A trader sells 10 litres of a mixture of paints A and B, where the amount of B in the mixture does not exceed that of A. The cost of paint A per litre is Rs. 8 more than that of paint B. If the trader sells the entire mixture for Rs. 264 and makes a profit of 10%, then the highest possible cost of paint B, in Rs. per litre, is

A) 20 B) 22 C) 16 D) 26

DIRECTIONS for the question: *Solve the following question and mark the best possible option.*

Question No. : 21

Tea leaves of worth Rs. 230 per kg and Rs. 245 per kg are mixed with a third variety in the ratio 1:1:2. If the mixture is worth Rs. 250 per kg, then find the price of the third variety per kg.

A) Rs. 237.5 per kg B) Rs. 248.5per kg C) Rs. 262.5 per kg D) Rs. 272.5 per kg ***DIRECTIONS for***

the question: *Solve the following question and mark the best possible option.*

Question No. : 22

In a zoo there are rabbits and pigeons. If their heads are counted, they are 70 while legs are 240. Find the number of rabbits in the zoo.

A) 50 B) 30 C) 20 D) None of these

DIRECTIONS for the question: *Solve the following question and mark the best possible option.*

Question No. : 23

Ravi has 200 kg of rice. He sells one part at 10% profit and the rest at 15% loss. On the whole, his loss is 12%. What is the quantity sold at 10% profit?

A) 176 kg B) 24 kg C) 20 kg D) 180 kg

DIRECTIONS for the question: *Mark the correct option*
Question No. : 24

There are three containers of equal capacity fully filled with different water-alcohol mixtures with water and alcohol in the ratio 2 : 3, 3 : 4 and 4 : 5 respectively. They are emptied into a big container. What fraction of the mixture in the bigger container should be replaced by water so that the resulting mixture has equal quantities of water and alcohol?

A) $\frac{43}{945}$ B) $\frac{143}{945}$ C) $\frac{43}{544}$ D) $\frac{143}{1088}$

Section : Section 5

DIRECTIONS for the question: *Solve the following question and mark the best possible option.*

Question No. : 25

25% content of a bottle filled with alcohol is replaced with water. This process is repeated 3 more times. Find the ratio of water to alcohol in the final solution.

A) 81: 175 B) 256: 81 C) 81: 256 D) 175: 81

DIRECTIONS for the question: *Solve the following question and mark the best possible option.*

Question No. : 26

A container is filled to its capacity with pure alcohol. Nine liters alcohol is withdrawn and was replaced with an equal amount of water. This process was repeated one more time. After that the container has 17.1 liters of alcohol less than what initially it had. Find the capacity of the container.

A) 120 litres B) 150 litres C) 90 litres D) 50 litres

DIRECTIONS for the question: *Solve the following question and mark the best possible option.*

Question No. : 27

A cask contains 64 litres mixture of Alcohol and Water in the ratio 3:1. Now 8 litres of this mixture is taken out and replaced with 8 litres of soda. Now again 8 litres of mixture is taken out and replaced with same quantity of soda. In what ratio are the three liquids left in the cask?

A) 147:49:60 B) 60:49:147 C) 147: 49: 7 D) 7:49:147

DIRECTIONS for the question: *Solve the following question and mark the best possible option.*

Question No. : 28

Abhay goes on a camping tour in interior Himalayas. He has got a 1.6 litre bottle full of an energy drink with him. To save the energy drink the first day, he drinks 100 ml and refills the bottle with water; the second day he drinks 200 ml of the mixture and refills the bottle with water; the third day he drinks 300 ml of the mixture and refills the bottle with water. The procedure continues till the entire bottle is finished. How many ml of water in all does Abhay drink?

A) 1200 B) 12000 C) 13600 D) 13854

DIRECTIONS for the question: *Solve the following question and mark the best possible option.*

Question No. : 29

A 90 litres tank is completely filled with a mixture of liquids A and B in the ratio 2:3. 10 litres of mixture is taken out and is replenished back by the same quantity of liquid A. 15 litres of the mixture is then taken out and is replenished back with liquid B. What is the ratio of liquids B to A in the mixture now?

A) 2:3 B) 3:2 C) 7:11 D) 11:7

DIRECTIONS for the question: *Solve the following question and mark the best possible option.*

Question No. : 30

A milk vendor sells 10 litres of milk from a can containing 40 litres of pure milk to the 1^{st} customer. He then adds 10 litres of water to the milk can. He again sells 10 litres of mixture to the 2^{nd} customer and then adds 10 litres of water to the can. Again he sells 10 litres of mixture to the 3^{rd} customer and then adds 10 litres of water to the can and so on. What amount of pure milk will the 5^{th} customer receive?

A) $\frac{510}{128}$ litres B) $\frac{505}{128}$ litres C) $\frac{410}{128}$ litres D) $\frac{405}{128}$ litres