Registration No.: [redacted]

22232PEA8991
Paper Code: A

Course Code:PEA308
Course Title:ADVANCED ANALYTICAL SKILLS-II

Time Allowed: 2 hrs

Max. Marks: 80

Read the following instructions carefully before attempting the question paper.

1. *Match the Paper Code shaded on the OMR Sheet with the Paper code mentioned on the question paper and ensure that both are the same.*
2. *This question paper contains 80 questions of 1 mark each. 0.25 marks will be deducted for each wrong answer.*
3. *Attempt all the questions in serial order.*
4. *Do not write or mark anything on the question paper and/or on rough sheet(s) which could be helpful to any student in copying, except your registration number on the designated space.*
5. *Submit the question paper and the rough sheet(s) along with the OMR sheet to the invigilator before leaving the examination hall.*
6. ***Use of calculator/log table is not allowed.***

Q(1) Four persons, A, B, C, and D are assigned to complete a work. A, C and D together can complete the task in 8 days, while A and C together can complete the same work in 72/7 days. If B is 20% more efficient than D, then find the sum of the number of days taken by B and C to complete the task individually if it is given that ratio of efficiency of A and C is 3: 4, respectively. CO2,L5

(a) A. 54 days (b) B. 56 days (c) C. 48 days (d) D. 36 days

Q(2) Two persons, A and B together, can complete the work in 18 days, and B and C together can do it in 30 days. All three arrived at the work site and for the first 14 days, only B and C worked together, then A worked alone for some days, and then he left for his home. After A has left, B and C complete the remaining work in 18 days, with B working on every 1st and 3rd day and C working on every 2nd day. After how many days A left the work site? CO1,L3

(a) A. 16 days (b) B. 18 days (c) C. 20 days (d) D. 22 days

Q(3) Twenty men take 30 days to complete a job working 9 hours a day. How many hour a day should 30 men take in 15 days to complete the job? CO1,L3

(a) 15 (b) 12 (c) 18 (d) 10

Q(4) A can do a work in 16 days. P who is 60 % more efficient than A. Find how much time they will take together to do the same work? CO1,L3

(a) 150/13 days (b) 80/13 days (c) 70/13 days (d) 90/31 days

Q(5) A and B together can complete a particular task in 4 days. If A alone can complete the same task in 12 days. How many days will B take to complete the task if he works alone? CO1,L3

(a) 9 days (b) 7 days (c) 6 days (d) 5 days

Q(6) 12 boys, working 3 hours a day can complete a work in 20 days. How many hours a day must 18 boys work to complete the same work in 10 days? CO1,L3

(a) 4 hrs (b) 18 hrs (c) 10 hrs (d) 12 hrs

Q(7) Two pipes A and B can fill a tank in 15 hours and 20 hours respectively while a third pipe C can empty the full tank in 25 hours. All the three pipes are opened in the beginning and after 10 hours, C is closed. The total time taken to fill the tank is: CO1,L3

(a) 12 hrs (b) 14 hrs (c) 16 hrs (d) 18 hrs

Q(8) Sahil took 8 days to finish a piece of work. Mohan takes 12 days to finish the same piece of work. Raj works twice as fast as Sahil. How many days will all three of them together take to finish the same piece of work? CO1,L3

(a) 25/11 (b) 47/13 (c) 48/13 (d) 24/11.

Q(9) P, Q, and R together earn Rs. 300 per day, while P and R together earn Rs. 188, and Q and R together earn Rs. 152. The daily earning of R is: CO1,L3

(a) Rs 40 (b) Rs 68 (c) Rs 112 (d) Rs 150.

Q(10) Ashokan is thrice as good a workman as Nitin and is, therefore, able to finish a piece of work in 40 days less than Nitin. Find the number of days in which they can do it working together. CO1,L3

(a) 15 (b) 7 (c) 16 (d) 13

Q(11) Two shots were fired from the same place at an interval of 12 min; but a person in the train approaching the place hears the second shot 10 min after the first. The speed of the train, if speed of sound is 330 m/sec is CO1,L3

(a) 56 m/sec (b) 56 Km/hr (c) 66 m/sec (d) 66 Km/hr

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Q(12) A plane travels 2500 km, 1200 km and 500 km at speeds of 500 km/hr, 400 km/hr and 250 km/hr respectively. It's average speed is
(a) 375 km/hr (b) 405 km/hr (c) 410 km/hr (d) 420 km/hr

Q(13) There is a gap of 200 km between two trains which simultaneously starts towards each other. If they cross each other at a distance of 110 km from one of the stations, then what is the ratio of their speeds? CO2,L5
(a) 11:20 (b) 9:20 (c) 11:9 (d) 17:9

Q(14) Two trains travel in opposite directions one at 36 km/hr and the other at 45 km/hr. A man sitting in the slower train passes the faster train in 8 sec. The length of the faster train is CO2,L5
(a) 110 m (b) 120 m (c) 150 m (d) 180 m

Q(15) Train 'A' of length 300m crosses another train 'B' of length of 200m which is approaching 'A' with a speed of 56km/hr. Train 'A' crosses a car traveling in the same direction as that of train A and the speed of the car is 45km/hr. Find the ratio of the time taken by Train 'A' to cross the car to the time taken by Train 'A' to cross Train 'B' if the speed of Train 'A' is 66 km/hr. CO2,L5
(a) 121:35 (b) 35:123 (c) 122:35 (d) 125:33

Q(16) Lonavala and Khandala are two stations 600 km apart. A train starts from Lonavala and moves towards Khandala at the rate of 25 km/h. After two hours, another trains starts from Khandala at the rate of 35 km/h. How far from Lonavala will they will cross each other? CO2,L5
(a) 250 km (b) 300 km (c) 279.166 km (d) 475 km

Q(17) A cyclist moving on a circular track of radius 100 meters completes one revolution in 2 minutes. What is the average speed of cyclist (approx.)? CO2,L5
(a) 314 m/minute (b) 20 m/minute (c) 300 m/minute (d) 900 m/minute

Q(18) A motorboat went downstream for 28 km and immediately returned. It took the boat twice as long to make the return trip. If the speed of the river flow were twice as high, the trip downstream and back would take 672 minutes. Find the speed of the boat in still water and the speed of the river flow. CO2,L5
(a) 9 km/h, 3 km/h (b) 9 km/h, 6 km/h (c) 8 km/h, 2 km/h (d) 12 km/h, 3 km/h

Q(19) Two trains are running on parallel lines in the same direction at speeds of 40 kmph and 20 kmph recpectively. The faster train crosses a man in the second train in 36 seconds. The length of the faster train is CO2,L5
(a) 200 meters (b) 185 meters (c) 225 meters (d) 210 meters

Q(20) In a 100 m race, Shyam runs at 1.66 m/s. If Shayam gives Sujit a start of 4 m and still beats him by 12 seconds, what is Sujit's speed? CO2,L5
(a) 1.11 m/s (b) 0.75 m/s (c) 1.33 m/s (d) 1 km/h

Q(21) In a class Rajni got the 11th rank and she was 31st from the bottom of the list of girls passed. Three girls did not take the examination and one failed. What is the total strength of the class? CO2,L5
(a) 32 (b) 42 (c) 46 (d) 45

Q(22) Sudesh is 7 ranks ahead of Ashok in the class of 39 students. If Ashok's rank is 17th from the last, what is Sudesh's rank from the start? CO1,L3
(a) 16 (b) 23 (c) 24 (d) 15

Q(23) In a row of children, Ravi 10th from the left and Vimla is 12th from the right. When they exchange their places Ravi is 16th from the left. What is the new position of vimla from the right? CO1,L3
(a) 16^{th} (b) 17^{th} (c) 18^{th} (d) 20th

Q(24) Statements : CO1,L3
All tubes are cubes.
No cube is sky.
No bird is sky.
Conclusions :

I. No tube is bird.
II. All birds being cubes is a possibility.

(a) If only conclusion I follow
(b) If only conclusion II follow
(c) If neither conclusion I nor conclusion II follows
(d) If both the conclusions follow

Statements:
All grades are grades. No grade is a score. All scores are letters. Some letters are characters.
Conclusions: I. Some scores are characters.
II. All marks being letters is a possibility.
III. All characters are grades is a possibility.

(a) Only II follows (b) Only II and III follows (c) All follows (d) Only I nor III follows

Q(26) Solve for x, if (log 400/log20) = log x CO3,L3
(a) 2 (b) 10 (c) 100 (d) 400

Q(27) 5 = (logP)/(log3), find P CO3,L3
(a) 27 (b) 81 (c) 243 (d) 729

Q(28) Statements: No cap is a shirt.
Some trousers are caps.
All belts are shirts.
Conclusions: I. No cap is a trouser.
II. All caps being trousers is a possibility.

(a) If only conclusion I follows
(b) If only conclusion II follows
(c) If either conclusion I or II follows
(d) If neither conclusion I nor II follows

Q(29) In a north-facing row of NCC Cadets, Trisha is 9th from the left end and Tina is 12th from the right end. There are 5 cadets between Trisha and Tanya who is equidistant to Tina. Find how many cadets are there in the row. CO1,L3
(a) 34 (b) 32 (c) 31 (d) 33

Q(30) Statements: Some milk is curd.
Some curd is butter milk.
All butter milk is butter.
No butter is ghee.
Conclusions: I. No butter milk is ghee.
II. Some butter is curd.
III. Some curd is not ghee. CO1,L3

(a) If only conclusion I follows
(b) If only conclusion II follows
(c) If either conclusion I or II follows
(d) If all conclusions I, II, and III follow

Q(31) Ratio of length, breath of a rectangular box is 5:4. Area of box is 2000 square meter. Find diagonal of the box (approximately). CO1,L3
a. 64 m b. 68None c. 74 m d. None

Q(32) In a triangle ABC, point D is on side AB and point E is on side AC, such that BCED is a trapezium. DE: BC = 3: 5. Calculate ratio of area of triangle ADE and the trapezium BCED?
(a) 3:4 (b) 9:16 (c) 3:5 (d) 9:25

Q(33) At the rate of Rs. 2 per sq m, cost of painting a rectangular floor is Rs 5760. If the length of the floor is 80% more than its breadth, then what is the length of the floor?
(a) 25m (b) 35m (c) 72m (d) 75m

Q(34)A 5 m long and 4 m wide cistern contains water up to a breadth of 1 m 25 cm. Find the total surface area of the surface immersed in water? CO4,L3
(a) 42.5 m2 (b) 49.5 m2 (c) 52.5 m2 (d) 64.5 m2

Q(35) How many bricks, each measuring 25cm*11.25cm*8cm, will be needed to build a wall 8m*7m*22.5m? CO4,L3
(a) 540000 (b) 560000 (c) 640000 (d) 630000

Q(36) Two ships are sailing in the sea on the two sides of a lighthouse. The angle of elevation of the top of the lighthouse is observed from the ships are 30° and 45° respectively. If the lighthouse is 100 m high, the distance between the two ships is? CO4,L3
(a) 173m (b) 200m (c) 273m (d) 300m

Q(37) Find the cost of carpeting a room 13 m long and 9 m broad with a carpet 75 cm wide at the rate of Rs. 12.40 per metre?(in Rs) CO4,L3
(a) 1934.40 (b) 1265.43 (c) 1374.40 (d) 1300

Q(38) The length of a rectangle is twice its breadth. If its length is decreased by 5 cm and breadth is increased by 5 cm, the area of the rectangle is increased by 75 sq cm. find the length of the rectangle
(a) 40cm (b) 20cm (c) 10cm (d) 5cm CO1,L3

Q(39) The angle of elevation of a tower from a distance 50 m from its foot is 30°. The height of the tower is
(a) $50\sqrt{3}$ m (b) $50 / \sqrt{3}$ m (c) $75\sqrt{3}$ m (d) $75 / \sqrt{3}$ m CO1,L3

Q(40) A cone and a hemisphere have equal base diameter and equal volumes. The ratio of their heights is
(a) 3:1 (b) 2:1 (c) 1:2 (d) 1:3 CO4,L3

Q(41) A conical vessel has a capacity of 15 L of milk, its height is 50 cm and base radius is 25 cm. How much milk can be contained in a vessel in cylindrical form having the same dimensions as that of the cone?
(a) 15L (b) 30L (c) 45L (d) 60L CO4,L3

Q(42) From the top of a hill, the angles of depression of two consecutive 1 kilometer stone due west are found to be 30° and 45°. The height of the hill is
(a) 491 m (b) 1366 m (c) 1065 m (d) 1296 m CO4,L3

Q(43) From a point A on a level ground, the angle of elevation of the top steel rope is 30°. If the tower is 150 m high, the distance of point A from the foot of the rope is
a. $150\sqrt{3}$ b. $190\sqrt{3}$ c. $250\sqrt{3}$ d. None

Q(44) The radius of the cone is 10 cm. The ratio of the curved surface area and the total surface area of the cone is 4: 5. Find the slant height of the cone.
(a) 30 cm (b) 40 cm (c) 35 cm (d) 42 cm CO1,L3

Q(45) A circle is inscribed in a square of side 48 cm. Find the area of the remaining portion of the square which is not enclosed by the circle.
(a) 465.715 cm2 (b) 439.715 cm2 (c) 493.715 cm2 (d) 433.715 cm2 CO1,L3

Q(46) The height of a cylindrical-shaped wood is 15 cm less than the circumference of the base and the curved surface area is 154 cm2, then what is the volume (in cm3) of the cylinder-shaped wood?
(a) 289.5 (b) 269.5 (c) 462 (d) 462.5 CO1,L3

Q(47) It was Sunday on Jan 1, 2006. What was the day of the week Jan 1, 2010?
(a) Sunday (b) Saturday (c) Friday (d) Wednesday CO5,L3

Q(48) What was the day of the week on 28th May, 2006?
(a) Thursday (b) Friday (c) Saturday (d) Sunday CO5,L3

Q(49) A watch gains 6 minutes in one hour and was set right at 8 am. What time will it show at 7 pm on the same day?
(a) 8: 06 pm (b) 7: 07 pm (c) 8:30 pm (d) 7: 30 pm CO5,L3

Q(50) Statement: $M \geq R$ $C = M$
Conclusions: I. $A > R$ II. $C \geq H$
(a) If only conclusion I is true (b) If only conclusion II is true
(c) If either conclusion I or II is true (d) If neither conclusion I nor II is true CO1,L3

Q(51) Eight people of which A, B, C, and D are women and P, Q, R, and S are men sit around a circular table facing towards the centre.
None of the women sit as immediate neighbour. A is not facing B. Q, who is immediate neighbour of C, faces P. R is immediate neighbour of D but not of C. D does not sit second to the right C. At least one person sits between A and R.

Who sit to the immediate right of S?
(a) C (b) A (c) P (d) Q CO1,L3

Q(52) Eight people of which A, B, C, and D are women and P, Q, R, and S are men sit around a circular table facing towards the centre. None of the women sit as immediate neighbour. A is not facing B. Q, who is immediate neighbour of C, faces P. R is immediate neighbour of D but not of C. D does not sit second to the right C. At least one person sits between A and R.
Who sits in front of B?
(a) D (b) C (c) S (d) Q CO1,L3

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W δ X, X @ Y, Y #Z
I W @ Y II.Z # C
conclusion I is true
conclusion I or II is true

(b) if only conclusion II is true
(d) if neither conclusion I nor II is true

CO5,L3

Eight friends A, B, C, D, E, F, G and H are sitting around a circle facing the center. B is third to the right of A of H who sits second to the left of G. F is second to the right of E who is not an immediate neighbor of B. D sits second to the given arrangement and so form a group. Which is one that does not belong to the group?
AD (b) HG (c) EF (d) BF

CO5,L3

Q(55) A clock is set right at 8 a.m. The clock gains 10 minutes in 24 hours will be the true time when the clock indicates 1 p.m. on the following day?
(a) 48 min. past 12. (b) 46 min. past 12. (c) 45 min. past 12. (d) 47 min. past 12.

CO1,L3

Q(56) A, B, C, D and E are sitting along a circle facing the centre. C is neighbor of A and B. E is to the immediate left of B. Which of the following is false statement?
(a) E is the immediate right of D
(b) D is 2nd to the right of C
(c) A is 3rd to the right of C
(d) None is false

CO5,L3

Q(57) The last day of a century cannot be
(a) Tuesday (b) Monday (c) Wednesday (d) Friday

CO1,L3

Q(58) How many times are the hands of a clock at right angle in a day?
a. 22 b. 33 c. 66 d. None

CO1,L3

Q(59) Chirag's birthday is on Thursday 1st June. On what day of the week will be Reyansh's Birthday in the same year if Reyansh was born on 3rd December?
(a) Wednesday (b) Sunday (c) Friday (d) Saturday

CO1,L3

Q(60) Today is Friday. After 62 days, what day will it be?
(a) Thursday (b) Saturday (c) Friday (d) Sunday

CO1,L3

Q(61) If today is Monday, which day of the week will it be after one year?
(a) Tuesday (b) Wednesday (c) Monday (d) Either (a) or (b)

CO1,L3

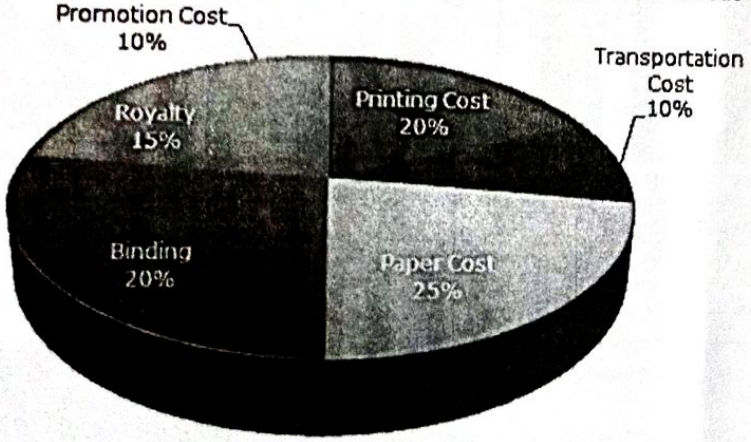
Q(62) If the time in a clock is 6 hours 45 minutes, then what time does it show on the mirror?
(a) 6 hrs. 45 min. (b) 4 hrs. 15 min. (c) 7 hrs. 45 min. (d) 5 hrs. 15 min

CO1,L3

Q(63) An accurate clock shows 8 O'clock in the morning. Through how many degrees will the hour-hand rotate when the clock shows 2 O'clock in the afternoon?
(a) 30° (b) 180° (c) 90° (d) 150°

CO1,L3

Q(64) The following pie-chart shown the percentage distribution of the expenditure incurred in publishing a book. Study the pie-chart and the answer the questions based on it. Various Expenditures (in percentage)



Incurred in publishing a Book
What is the central angle of the sector corresponding to the expenditure incurred on Royalty?

(a) 15° (b) 24° (c) 54° (d) 48°

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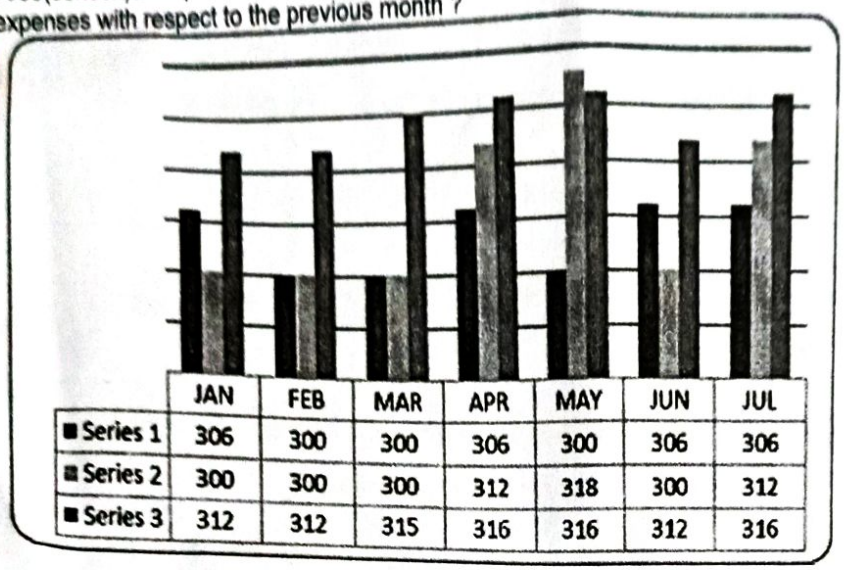
Q(65) Question: How much was the total sale of the company ?

Statements:
The company sold 8000 units of product A each costing Rs. 25.
This company has no other product line.

(a) I alone is sufficient while II alone is not sufficient.
(b) II alone is sufficient while I alone is not sufficient.
(c) Neither I nor II is sufficient.
(d) Both I and II are sufficient.

CO6,L1

Q(66) Refer to the following bar graph and solve the questions based on it The following bar chart shows the monthly expenditure of a family over a period of seven months during three different years 1998(series1), 1999(series2)2000(series3). In any of the given years, which month sees the maximum percentage increase in expenses with respect to the previous month ?

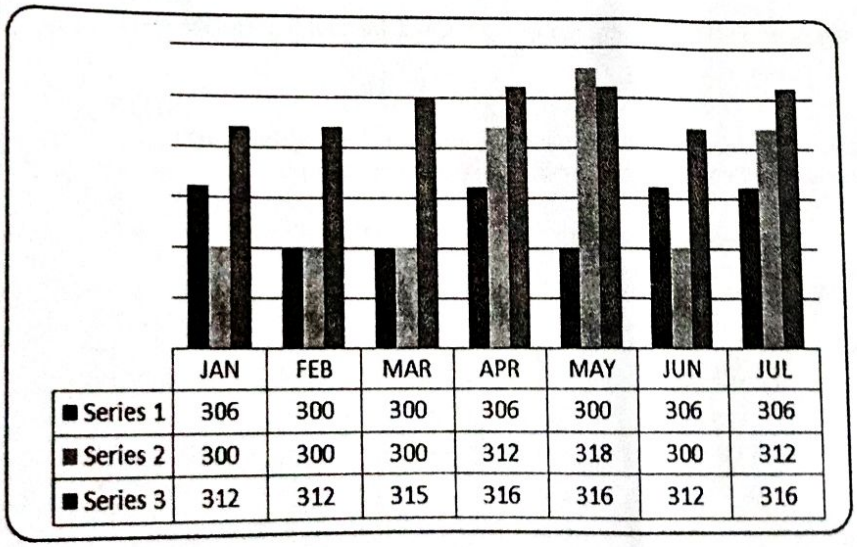


	JAN	FEB	MAR	APR	MAY	JUN	JUL
Series 1	306	300	300	306	300	306	306
Series 2	300	300	300	312	318	300	312
Series 3	312	312	315	316	316	312	316

(a) February (b) March (c) April (d) June

CO6,L1

Q(67) Refer to the following bar graph and solve the questions based on it. The following bar chart showns the monthly expenditure of a family over a period of seven months during three different years 1998(series1).1999(seriees2), 2000(series3).



	JAN	FEB	MAR	APR	MAY	JUN	JUL
Series 1	306	300	300	306	300	306	306
Series 2	300	300	300	312	318	300	312
Series 3	312	312	315	316	316	312	316

Which of the following statements is correct ?

(a) In 1998, May-June were the two consecutive months during which the expenditure was the maximum.
(b) During May-June 1999, the expenditure was the maximum for the year.
(c) Expenditure during January-February was the same in 1999 as well as in 2000.
(d) None of these

CO6,L1

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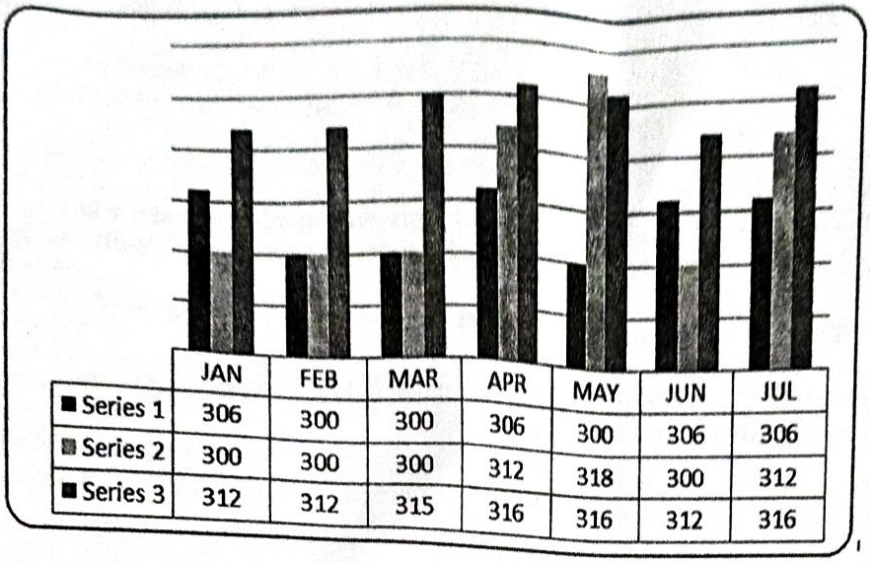
Q(68) Refer to the following bar graph and solve the questions based on it. The following bar chart showns the monthly expenditure of a family over a period of seven months during three different years 1998(series1),1999(seriees2), 2000(series3)



	JAN	FEB	MAR	APR	MAY	JUN	JUL
Series 1	306	300	300	306	300	306	306
Series 2	300	300	300	312	318	300	312
Series 3	312	312	315	316	316	312	316

Out of the following months in the options, Which months accounts for the maximum combined expenditure for three years ?

(a) March (b) May (c) June (d) February

CO6,*L1*

Q(69) What is the remainder when P is divided by 20?

I. P is a multiple of 4.

II. P is a multiple of 5.

Mark your answer as:
(a) If the question can be answered by using one of the statement alone but cannot be answered by using the other statement alone.
(b) If the question can be answered by using either of the statement (I) or (II) alone.
(c) If the question can be answered by using both the statements together but not by either statement alone.
(d) If the question cannot be answered even by using both the statements together.

CO6,L1

Q(70) What is the value of the ratio a : b : c?

I. The ratio of a : b = 1 : 5

II. The ratio of b : c = 3 : 2

Mark your answer as:
(a) If the question can be answered by using one of the statement alone but cannot be answered by using the other statement alone.
(b) If the question can be answered by using either of the statement (I) or (II) alone.
(c) If the question can be answered by using both the statements together but not by either statement alone.
(d) If the question cannot be answered even by using both the statements together.

CO6,L1

Q(71) Directions for questions: In the following questions each question is followed by two statements I and II. Read the question and the statements carefully and choose your answer according to which set of statement(s) is/are sufficient to answer the question.
What is the present age of Ramesh?
I. The ratio of the ages of Ramesh and Rakesh is 4 : 5.
II. The current age of Rakesh is 50 years.

a.All I and II together b. Only I c. Only II d. Either I or II

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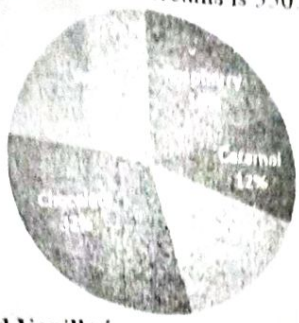
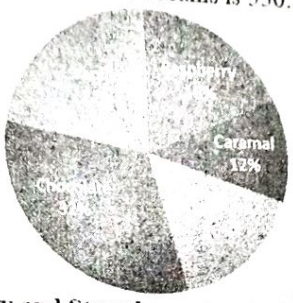
Q(72) Given below is the pie chart which shows the percentage distribution of the five type of icecreams available in a ice-cream parlor. Total number of ice-creams is 550



If number of females who purchased Vanilla ice-cream is 21 more than number of males who purchased same flavored ice-cream, then find the number of females who purchased Vanilla ice-cream?

(a) 71 (b) 75 (c) 58 (d) 84

Q(73) Given below is the pie chart which shows the percentage distribution of the five type of icecreams available in a ice-cream parlor. Total number of ice-creams is 550. CO6,L1

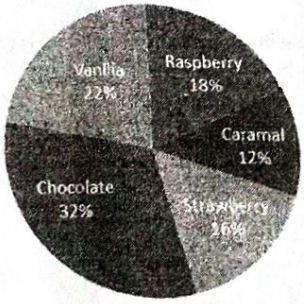


What is the ratio of total Raspberry and Strawberry ice-creams sold to the total Chocolate and Vanilla ice-creams sold?

(a) 15:17 (b) 15:27 (c) 17:27 (d) none of these

CO6,L1

Q(74) Given below is the pie chart which shows the percentage distribution of the five type of icecreams available in a ice-cream parlor. Total number of ice-creams is 550.



What is the difference between average number of Raspberry and Vanilla ice-creams sold together and average number of Strawberry and Chocolate ice-creams sold together?

(a) 22 (b) 32 (c) 30 (d) 42

CO6,L1

Q(75) What is the sum of x and y?

Statement I : $15x + 4y = 108$
Statement II : $y = 27 - 3.75x$

(a) The data in statements I alone is sufficient to answer the question, while the data in statement II alone is not sufficient to answer the question.
(b) The data in statements II alone is sufficient to answer the question, while the data in statement I alone is not sufficient to answer the question.
(c) Either Statement I or Statement II alone is sufficient to answer the question.
(d) The data in both the statements I and II is not sufficient to answer the question.

CO6,L1

Registration No.:_____

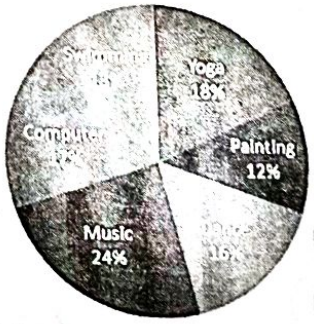
A train can cross a 600 meters platform in 30 seconds. What is the length of train?
Statement I : A man running at the speed of 20 meters per second in the opposite direction of train can pass the train completely in 6 seconds.
Statement II : The train can pass a boy standing on the platform in 10 second.
(a) The data in statements I alone is sufficient to answer the question, while the data in statement II alone is not sufficient to answer the question.
(b) The data in statements II alone is sufficient to answer the question, while the data in statement I alone is not sufficient to answer the question.
(c) Either Statement I or Statement II alone is sufficient to answer the question.
(d) The data in both the statements I and II is not sufficient to answer the question.

CO6,L1

Q(77) Find the number of boys in the college, if 60% of the total boys and 40% of the total girls participated in an event.
Statement I : The number of girls participated in the event is 120. There are more than 300 boys in the college.
Statement II : The number of girls in the college is 25% more than the number of boys who participated in the event.
(a) A. If the data in statement I alone is sufficient to answer the question, while the data in statement II alone is not sufficient to answer the question
(b) B. If the data in statement II alone is sufficient to answer the question, while the data in statement I alone is not sufficient to answer the question
(c) C. If the data either in statement I alone or in statement II alone is sufficient to answer the question
(d) D. If the data in both statements I and II together are necessary to answer the question

CO6,L1

Q(78) Study the following pie chart carefully and answer the questions given beside. The pie-chart given below shows total number of children who opted different courses in summer camp in May 2019. Total



Children = 300

A Total number of children who opted for Yoga and Painting together is how much less than total number of children who opted for Music and Dance together.

(a) 24 (b) 27 (c) 33 (d) 30

CO6,L1

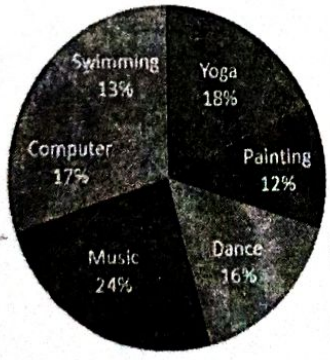
Q(79)

Find the total number of children who came to the camp in May 2020 if the total number of children increased by 30% in May 2020 as compared to May 2019?

(a) 310 (b) 340 (c) 390 (d) 360

CO6,L1

Q(80)



Find the central angle of the total number of children who opted for dance ?
(a) 57.6° (b) 57.4° (c) 54.2° (d) 58.4°

CO6,L1

--End of Question paper--