

Registration No.: _____

Course Code: PEA306
Course Title: ANALYTICAL SKILLS-II

Paper C

Time Allowed: 01:00 hr.

Read the following instructions carefully before attempting the question paper.

Max. Marks:

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 40 questions of 1 mark each. 0.25 marks will be deducted for each wrong answer.
3. All questions are compulsory.
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) A man can reach a certain place in 10 hours. If he reduces his speed by $1/4$ th, he goes 20 km less in that time. Find his speed per hour.

- (a) 6 km/hr. (b) $11\frac{1}{2}$ km/hr. (c) 22 km/hr. (d) 8 km/hr

CO2,L3

Q(2) While going to office, Ramesh travels at a speed of 30 kmph and on his way back, he travels at a speed of 45 kmph. What is his average speed of the whole journey?

- (a) 45 kmph (b) 36 kmph (c) 32 kmph (d) 42 kmph

CO2,L3

Q(3) A man rows a boat at a speed of 5 km/hr in still water. Find the speed of a river if it takes him 1 hr to row a boat to a place 2.4 km away and return back

- (a) 5 kmph (b) 6 kmph (c) 3 kmph (d) 1 kmph

CO2,L3

Q(4) Buses start from a bus terminal with a speed of 20 km/hr at intervals of 10 minutes. What is the speed of a man coming from the opposite direction towards the bus terminal if he meets the buses at intervals of 8 minutes?

- (a) 3 km/hr (b) 4 km/hr (c) 5 km/hr (d) 7 km/hr

CO2,L3

Q(5) The ratio between the speeds of two trains is 7 : 8. If the second train runs 100 km in 1 hour, What is the speed of the first train?

- (a) 87.5 kmph (b) 909 kmph (c) 8765 kmph (d) None

CO1,L3

Q(6) Convert 630 km/hr in m/sec

- (a) 175 m/s (b) 180 m/s (c) 190 m/s (d) 220 m/s

CO2,L3

Q(7) In a row, A is 9th from the left, and B is 19th from the right. If they interchange their positions, A becomes 15th from the left. How many girls are there in the row?

- (a) 28 (b) 27 (c) 34 (d) 33

CO3,L3

Q(8) Statement - I. All fruits are lions

II. All lions are foxes

III. Some foxes are beggars

Conclusion - I. All fruits are foxes.

II. Some fruits are beggars.

(a) Only I follows

(b) Only II follows

(c) Only III follows

(d) Only I and II follows

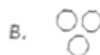
CO3,L3

Q(9) In a row of children, Ramu is 8th from the left, and Ajit is 10th from the right. When they interchange their places among themselves, Ramu becomes 15th from the left. Then what will Vijay's position be from the right?

- (a) 15th (b) 16th (c) 17th (d) 18th

CO3,L3

Q(10) Which of the following diagrams indicates the best relation between Adult, Singer and Children?



CO3,I

- Q(11) A Person does 25% work in 10 days. How many days to complete the whole work?
 (a) 2.5 days (b) 25 days (c) 40 days (d) 50 days
- Q(12) A is thrice as good as workman as B and therefore is able to finish a job in 50 days less than B. Working together, they can do it in:
 (a) 12.75 (b) 8.75 (c) 18.75 (d) 28.75
- Q(13) Susan can type 10 pages in 5 minutes. Mary can type 5 pages in 10 minutes. Working together, many pages can they type in 40 minutes?
 (a) 50 (b) 75 (c) 100 (d) 150
- Q(14) A alone can do a piece of work in 6 days and B alone in 8 days. A and B undertook to do it for Rs. 3200. With the help of C, they completed the work in 3 days. How much is to be paid to C.
 (a) 200 (b) 600 (c) 400 (d) 800
- Q(15) Sam is three times as good as Saan. If they finish a task together in 18 days, calculate the days taken by Sam alone to complete the work.
 (a) 22 (b) 23 (c) 24 (d) 25
- Q(16) A large water tank can be filled by a pump A in 10 minutes, and by B can fill the same tank in 20 minutes. If both the pumps work together to fill the tank, how long will it take to fill the tank.
 (a) $15\frac{1}{4}$ (b) $20\frac{1}{3}$ (c) 4 (d) None of these
- Q(17) P can complete a work in 12 days working 8 hours a day. Q can complete the same work in 8 days working 10 hours a day. If both p and Q work together, working 8 hours a day, in how many days can they complete the work?
 (a) $55\frac{1}{11}$ (b) $65\frac{1}{11}$ (c) $60\frac{1}{11}$ (d) None
- Q(18) A large tanker can be filled by two pipes A and B in 60 minutes and 40 minutes respectively. How many minutes will it take to fill the tanker from empty state if B is used for half the time and A and B fill it together for the other half?
 (a) 20min (b) 30min (c) 25min (d) 55min
- Q(19) A is 30% more efficient than B. How much time will they, working together, take to complete a job which A alone could have done in 23 days?
 (a) 12 (b) 20 (c) 13 (d) 22
- Q(20) A & B working together can do a piece of work in 12 days. B & C working together can do a piece of work in 15 days. C & A working together can do a piece of work in 20 days. In how many days A can do the same work?
 A. 20 B. 30 C. 40 D. 60
- Q(21) Statements: Some red are blue. All white are blue. All yellow are red. Some white are orange.
 Conclusions: I. Some white are yellow. II. Some orange are definitely red.
 III. At least some blue are orange.
 (a) If both conclusions I and III follow (b) If both conclusions I and II follow
 (c) If only conclusion III follows (d) If all conclusions follows
- Q(22) In a town of 500 people, 285 read Hindu and 212 read Indian Express and 127 read Times of India. 20 read Hindu and Times of India and 29 read Hindu and Indian Express and 35 read Times of India and Indian express. 50 read no news paper. Then how many read only one paper?
 (a) 123 (b) 231 (c) 321 (d) 132
- Q(23) In a row, all the persons are facing north. Sarah is 24th from the left end, and on the right side of Sarah, there are only 17 persons. Find out the total number of persons in this queue?
 (a) 40 (b) 41 (c) 39 (d) none
- Q(24) Nitin ranks 20th from top in a class of 49 students. What is rank from the last?
 (a) 18 (b) 25 (c) 30 (d) 32
- Q(25) Sam ranked 9th from the top and 38th from the bottom in a class. How many students are there in the class?
 (a) 45 (b) 46 (c) 47 (d) 48

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- Q(26) How many numbers amongst the numbers 72 to 540 are there which are exactly divisible by 6 but not by 3 ?
 (a) 1 (b) 5 (c) 2 (d) 0
- Q(27) Rohit is seventeenth from the left end of a row of 29 boys and Karan is seventeenth from the right end in the same row. How many boys are there between them in the row?
 (a) 3 (b) 5 (c) 6 (d) Data inadequate
- Q(28) In a row of 205 boys, Kunal is twelfth from the left and Nakul is eighth from the right. How many boys are between them?
 (a) 11 (b) 29 (c) 20 (d) None
- Q(29) In a row of labourers, A is 13th from the left and D is 17th from the right. If in this row A is 11th from the right then what is the positions of D from the left?
 (a) 7th (b) 8th (c) 9th (d) 11th
- Q(30) In a row of thirty boys, P is fourth from the right end and Q is tenth from the left end. How many boys are there between P and Q?
 (a) 15 (b) 16 (c) 17 (d) 18
- Q(31) Pipe P is 4 times as fast as Q in filling a tank. If P takes 20 minutes to fill a tank, then what is the time taken by both the pipe P and Q to fill the tank?
 (a) 12 (b) 16 (c) 18 (d) 20
- Q(32) 10 men and 15 women together can complete a work in 6 days. It takes 100 days for one man alone to complete the same work. How many days will be required for one woman alone to complete the same work?
 A. 90 B. 125 C. 145 D. 225
- Q(33) If 5 men or 8 women can do a piece of work in 12 days, how many days will be taken by 2 men and 4 women to do the same work?
 (a) 15 days (b) 13.5 days (c) 40/3 days (d) 10 days
- Q(34) Two trains of equal length take 12 and 15 seconds, respectively, to cross a telegraph post. If the length of each train is 180 meters, at what time in seconds will trains cross each other, traveling in opposite directions??
 (a) 13 (b) 13.333 (c) 14 (d) 15
- Q(35) A boy goes to school with $\frac{4}{5}$ th of original speed and he reached school 5 min. late. Find actual time?
 (a) 8 min. (b) 16 min. (c) 20 min. (d) None of these
- Q(36) A boy walk at 8 kmph and reaches his school 10 min late. If speed has been 10 kmph, he will reach 20 min early. Find distance between home and school.
 (a) 10 (b) 20 (c) 30 (d) 15
- Q(37) A car travelling with $\frac{5}{7}$ of its actual speed covers 42 km in 1 hr 40 min 48 sec. Find the actual speed of the car.
 (a) 30kmph (b) 33kmph (c) 35kmph (d) 40kmph
- Q(38) "1. A boat goes 13 km upstream in 65 minutes. The speed of stream is 2 km/hr. The speed of boat in still water is
 A] 6 kmph B] 10 kmph C] 17 kmph D] 8.5 kmph
- Q(39) When a person cycled at 10 km per hour he arrived at his office 6 minutes late. He arrived 6 minutes early, when he increased his speed by 2 km per hour. The distance of his office from the starting place is (1) 2) (3) (4)
 a) 6 km (b) 7 km (c) 12 km (d) 16 km
- Q(40) A train 300 m long is running at a speed of 25 metres per second, it will cross a bridge 200 metres long in
 (a) 5 seconds (b) 10 seconds (c) 20 seconds (d) 25 seconds

--End of Question paper--