| | QUESTION BANK | |
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| | Program: B.TECH | |
| | Course Name: Q AND R Course Code: QR | |
| | Academic year: 2023-27 Semester/ Year: 3 rd /2nd | |
| | | |
| S.No. | Questions | CO* |
| Q1. | A shopkeeper sold an article at a discount of 20% and makes a profit of | |
| | ₹40. Cost price of article is ₹600 | |
| | Quantity I. Marked price of article. | |
| | Quantity II. An article sold at ₹1800 and cost price of article is ₹1000. | |
| | Find profit on article. | |
| | (A) Quantity I > Quantity II | |
| | (B) Quantity I < Quantity II | |
| | (C) Quantity I ≥ Quantity II | |
| | (D) Quantity I ≤ Quantity II | |
| | (E) Quantity I = Quantity II or no relation | |
| Q2. | When a person sold an article, his profit percent is 60% of the selling | |
| | price. If the cost price is increased by 75% and the selling price remains | |
| | the same, then find decrement in the profit is what percent of the selling | |
| | price of the article? | |
| | (A) 25% | |
| | (B) 30% | |
| | (C) 40% | |
| | (D) 27.5% | |
| | (E) None of these | |
| Q3. | A sold an article for ₹8000 and incurred a loss. Had he sold the article for | |
| | ₹9800, his gain would have been twice the amount of loss. At what price | |
| | should the article be sold to earn 20% profit? | |
| | (A) ₹10840 | |
| | (B) ₹9820 | |
| | (C)₹10320 | |
| | (D) ₹9840 | |
| | (E) ₹10480 | |
| Q4. | Shyamji sold a commodity at a loss of 2%. If he has been able to sell it at a | |
| | profit of 10% he would have fetched ₹12000 more than what he did. What | |
| | was the cost price of the commodity? | |
| | (A) ₹2.5 lakh | |
| | (B) ₹1 lakh | |
| | (C) ₹0.5 lakh | |
| | (D) ₹1.5 lakh | |
| | (E) ₹3 lakh | |

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| Q5. | A seller sells his goods at 20% profit. Had he bought it at 10% more and | |
| | sold it for ₹140 more, he would have earned a profit of 25%. Find the cost | |
| | price of the goods. | |
| | (A) ₹600 | |
| | (B) ₹1000 | |
| | (C) ₹900 | |
| | (D) ₹800 | |
| | (E) ₹750 | |
| Q6. | A shopkeeper buys a dozen of bananas for ₹15 out of which 4 Bananas | |
| | were found to be rotten and could not be sold. He sold the remaining | |
| | bananas and earned an overall profit of 20%. For how much did the | |
| | shopkeeper sell 4 bananas which were not rotten? | |
| | (A) ₹9 | |
| | (B) ₹5.5 | |
| | (C)₹2.25 | |
| | (D)₹7 | |
| | (E)₹10 | |
| Q7. | The profit earned when a book is sold for ₹600 is thrice the profit earned | |
| | when the same book is sold for ₹400. What should be the selling price if | |
| | seller wants to earn 60% profit? | |
| | (A) ₹420 | |
| | (B) ₹440 | |
| | (C)₹460 | |
| | (D) ₹480 | |
| | (E)₹500 | |
| Q8. | Arun bought an old computer and spent ₹110 on its repairs. He then sold it | |
| | to Bhola at a profit of 20%. Bhola sold it to Chandan at a loss of 10%. | |
| | Chandan finally sold it for ₹1188 at a profit of 10%.How much did Arun pay | |
| | for the article? (A) ₹1050 | |
| | (B) ₹890 | |
| | (C) ₹750 | |
| | (D) ₹640 | |
| | (E) ₹1290 | |
| Q9. | Sumit bought a book from flipkart at ₹500 but flipkart also charged an | |
| • | additional, ₹25 for packaging and ₹50 for delivering the book. For what | |
| | amount Sumit should sell his book to get a profit of 16%? | |
| | (A) ₹667 | |
| | (B) ₹783 | |
| | (C) ₹612 | |
| | (D)₹458 | |
| | (E)₹532 | |
| Q10. | A and B sold two articles at 25% profit and 40% profit respectively. If total | |
| ₹ 10. | profit is ₹178 and the cost price of A is ₹120 less than B. find the CP of B. | |
| | (A) ₹310 | |
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| (B) ₹370 (C) ₹320 | |
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| (0) (020 | |
| (D) ₹430 | |
| (E) None of these | |
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| questions given below. | |
| Nine persons i.e. P, Q, R, S, T, U, V, W, X were born on different months i.e. | |
| January, March, April, May, July, August, September, October, November | |
| but not necessarily in same order. Four persons were born between P and | |
| T. P was born before T. Q was born in the month of 30 days after July. T was | |
| born after Q and before R. There were as many persons born before X as | |
| after R. one person was born between U and V. S was born before U and | |
| after W. | |
| How many persons were born between X and V? | |
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| (A) R | |
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| | Direction (11-15): Study the following information carefully and answer the questions given below: Nine persons i.e. P, Q, R, S, T, U, V, W, X were born on different months i.e. anuary, March, April, May, July, August, September, October, November but not necessarily in same order. Four persons were born between P and T. P was born before T. Q was born in the month of 30 days after July. T was born after Q and before R. There were as many persons born before X as after R. one person was born between U and V. S was born before U and after W. How many persons were born between X and V? A) Two B) Three C) One D) Four E) More than four Who among the following was born on August? A) R B) S C) T D) P E) None of these n which of the following month S was born? A) March B) April C) June D) October E) None of these f W is related to April, V is related to July then, P is related to which of the following? A) March B) May C) June D) August E) October Four of the following five are alike in certain way based from a group, find the one which does not belong to that group? |

| | (O) T | |
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| | (C) T | |
| | (D) U | |
| | (E) V | <u> </u> |
| | Direction (6-10): Read the following information carefully and answer the | |
| | following questions. | |
| | Seven persons A, B, C, D, E, F and G were born in different months viz. | |
| | January, February, March, April, June, August and December of the same | |
| | year, but not necessarily in the same order. Not more than three persons | |
| | were born before B. A was born immediately before the month in which C | |
| | was born. A was not born in the month having 30 days nor in the month | |
| | having least number of days. C was not born in the month immediately | |
| | before D. Only three persons were born between A and E, who is born in | |
| | one of the months after F. B was not born in the month having 31 days. | |
| | Only two persons were born between B and D. | |
| Q16. | How many persons were born after G? | |
| | (A) One | |
| | (B) Three | |
| | (C) Two | |
| | (D) More than Three | |
| | (E) No | |
| Q17. | Who among the following was born immediately before the month in | |
| | which A was born? | |
| | (A) G | |
| | (B) B | |
| | (C) C | |
| | (D) No One | |
| | (E) None of these | |
| Q18. | Who among the following was born in the month having least number of | |
| | day? | |
| | (A) F | |
| | (B) C | |
| | (C) G | |
| | (D) D | |
| | (E) None of these | |
| Q19. | G was born in which of the following month? | |
| | (A) January | |
| | (B) March | |
| | (C) August | |
| | (D) December | |
| | (E) None of these | |
| Q20. | B was born in which of the following month? | |
| | (A) February | |
| | (BS) December | |
| | | |

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| | (C) January | |
| | (D) March | |
| | (E) None of these | |
| | Direction (21-23): Study the following information carefully and answer the | |
| | questions given below. | |
| | | |
| | In a family, there are ten members P, Q, R, S, T, U, V, W and X. P and Q are | |
| | married couple. S is the only son of R, who is the brother of P. T and W are | |
| | siblings of S. Q is daughter-in-law of U. X is mother of V, who is sister of P. L | |
| | is sister-in-law of V, who is unmarried. | |
| | | |
| Q21. | How is U related to S? | |
| | (A) Father | |
| | (B) Brother in-law | |
| | (C) Grand-son | |
| | (D) Grand-father | |
| | (E) None of these | |
| Q22. | How is Q related to V? | |
| | (A) Sister in-law | |
| | (B) Daughter | |
| | (C) Cousin | |
| | (D) Sister | |
| | (E) Mother | |
| Q23. | How is L related to W? | |
| | (A) Sister in-law | |
| | (B) Mother | |
| | (C) Daughter | |
| | (D) Wife | |
| | (E) None of these | |
| Q24. | Binni points towards a person and says, "That person is the wife of only | |
| | son-in-law of my father's only son's wife." | |
| | How is Binni related to that person? | |
| | (A) Aunt | |
| | (B) Mother | |
| | (C) Grandmother | |
| | (D) Wife | |
| | (E) None of the above | |
| Q25. | Saurav said pointing towards a lady in a picture, "That person is daughter | |
| | of my mother's father's only son". | |
| | How is the lady in the picture related to Saurav? | |
| | (A) Father's sister | |
| | (B) Mother's sister | |
| | (C) Cousin (maternal brother) | |
| | (D) Cousin (maternal sister) | |
| | (b) Cousin (maternat sister) | |

| | (E) None of the above | |
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| | Direction (26-28): Study the information carefully and answer the | |
| | questions given below. Five members in a family viz. A, B, C, D and E | |
| | sitting in row facing north. B is sitting third to the left of his daughter. A is | |
| | sitting immediate right of D's father in law. C is sitting between A and A's | |
| | sister who is sitting to the right of his only brother. D who is daughter in | |
| | law of C is sitting at one of the extreme end of the row. A's wife is not | |
| | neighbour of A's sister. There is two married couple in the family. | |
| Q26. | If all the persons are sitting in an alphabetical order from left to right than | |
| | how many persons position will remain unchanged? | |
| | (A) One | |
| | (B) Two | |
| | (C) Three | |
| | (D) More than Three | |
| | (E) None of these | |
| Q27. | What is the position of Daughter in law of C with respect to C's husband? | |
| | (A) Second to the left | |
| | (B) Second to the right | |
| | (C) Immediate right | |
| | (D) Immediate left | |
| | (E) Third to the left | |
| Q28. | Which of the following person is sitting exactly middle of the row? | |
| | (A) Daughter of C | |
| | (B) Father of A | |
| | (C) Mother-in-law of D | |
| | (D) Can't be determined | |
| | (E) None of these | |
| | Direction (29-30): Read the following information carefully and answer the | |
| | questions given below it. | |
| | In a family, there are nine members A, B, C, D, E, F, G,H and I. A and B are a | |
| | married couple, A being the male member. D is the only son of C, who is | |
| | the brother of A. E is the sister of D. B is the daughter-in-law of F. H is sister | |
| | of D .I is the mother of G, who is sister of A? | |
| Q29. | How is F related to A? | |
| | (A) Father | |
| | (B) Sister-in-law | |
| | (C) Sister | |
| | (D) Mother-in-law | |
| | (E) None of these | |
| Q30. | How is B related to G? | |
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| | (B) Daughter | |
| | (C) Cousin | |
| | (D) Sister | |
| | (E) Mother | |
| | Direction (31 – 35): Find the wrong number in the following number series? | |
| _ | | |
| Q31. | 1, 3, 7, 15, 31, 64, 127 | |
| | (A) 1 | |
| | (B) 3 | |
| | (C) 15 | |
| | (D) 64 | |
| | (E) 127 | |
| Q32. | 1, 15, 119, 475, 949, 947, 473 | |
| | (A) 947 | |
| | (B) 475 | |
| | (C) 15 | |
| | (D) 473 | |
| | (E) 1 | |
| Q33. | 250, 260, 291, 314, 340, 370, 405 | |
| | (A) 370 | |
| | (B) 314 | |
| | (C) 260 | |
| | (D) 405 | |
| | (E) 250 | |
| Q34. | 750, 535, 411, 348, 322, 314, 315 | |
| | (A) 315 | |
| | (B) 750 | |
| | (C) 411 | |
| | (D) 348 | |
| | (E) 314 | |
| Q35. | 2, 7, 27, 107, 427, 1708, 6827 | |
| | (A) 107 | |
| | (B) 1708 | |
| | (C) 2 | |
| | (D) 6827 | |
| | (E) 7 | |
| | Direction (36 – 40): In the following series one number is wrong which does | |
| | not follow the pattern. Find the wrong number. | |
| Q36. | 900, 896, 912, 848, 1105, 80 | |
| | (A) 900 | |
| | (B) 912 | |
| | (C) 896 | |
| | (D) 1105 | |
| | (E) 848 | |
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| Q37. | 7, 11, 20, 35, 61, 96 | |
| | (A) 7 | |
| | (B) 35 | |
| | (C) 61 | |
| | (D) 11 | |
| | (E) 97 | |
| Q38. | 2, 3, 7, 22, 89, 459 | |
| | (A) 3 | |
| | (B) 22 | |
| | (C) 459 | |
| | (D) 7 | |
| | (E) 89 | |
| Q39. | 2, 4, 12, 48, 240, 1448 | |
| | (A) 4 | |
| | (B) 12 | |
| | (C) 240 | |
| | (D) 1448 | |
| | (E) 2 | |
| Q40. | 2, 3.4, 6.2, 11.8, 25, 45.4, 90.2 | |
| | (A) 25 | |
| | (B) 11.8 | |
| | (C) 45.4 | |
| | (D) 3.4 | |
| | (E) 90.2 | |
| Q41. | In a certain code language "FRIED" is written as "QEJCD", "PLANT" is | |
| | written as "KOBSM" how is "SHOWN" written in that code language? | |
| | (A) RGPVM | |
| | (B) VMPRG | |
| | (C) GRPMV | |
| | (D) TIPXO | |
| | (E) GRNMV | |
| Q42. | In a certain code language MOBILE is written as OQDKNG and TABLET is | |
| | written as VCDNGV then how can we write COMPUTER in that code | |
| | language? | |
| | (A) EQOSWVGT | |
| | (B) EQORWVGT | |
| | (C) EQORWVGU | |
| | (D) FQORWVGT | |
| | (E) GQORWVGT | |
| Q43. | If in a certain code language, IMPETUS is written as JLQDUTT and PENSIVE | |
| | is written as QDORJUF, then how will CHANGED be written in that | |
| | language? | |
| | (A) DGBMHDP | |
| | (B) DGBMHDN | |



| | (C) DGBMHED | |
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| | (D) DGBMHDE | |
| 0.45 | (E) DEVGHRN | |
| Q45. | In a certain code language, _HOCKEY' is written as _IPDJDX' and _SKETCH' | |
| | is written as _TLFSBG'. What will be the code for 'ENDING' in that code | |
| | language? | |
| | (A) GOEHNH | |
| | (B) FOEHMH | |
| | (C) GMEHOH | |
| | (D) FMEHMH | |
| | (E) FOEHMF | |
| Q46. | If —3265 is the input, output will be —6532 . Similarly, for input —7489 , | |
| | output will be —9874 . So, what will be the output of input —8154 ? | |
| | (A) 8451 | |
| | (B) 5481 | |
| | (C) 8541 | |
| | (D) 4581 | |
| | (E) None of these | |
| Q47. | Four of the following given five follows a certain pattern find the one that | |
| | does not belong to that group? | |
| | (A) ECA | |
| | (B) QOM | |
| | (C) GEC | |
| | (D) FBD | |
| | (E) MKI | |
| Q48. | Find the odd one out? | |
| | (A) JQK | |
| | (B) BYC | |
| | (C) LRM | |
| | (D) CXD | |
| | (E) OPX | |
| Q49. | Select the one which is different from other four alternatives. | |
| | (A) MN | |
| | (B) AZ | |
| | (C) BY | |
| | (D) JP | |
| | (E) EV | |
| Q50. | Four of the following five are alike in a certain way and so form a group. | |
| • | Which is the one that does not belong to that group? | |
| | (A) DGIK | |
| | (B) ZWUS | |
| | (C) KNPR | |
| | (D) QTVX | |
| | (E) HKM | |
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| | Direction (01-02): Study the following information carefully and answer the | |
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| | questions given below: | |
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| | Eight boxes are placed one above another. Box G is placed above box H. | |
| | Three boxes are placed between box M and box N which is placed just | |
| | above box P. Box Q is placed just above box G. Only one box is placed | |
| | below box M. Box J is placed above box K and below box H. | |
| Q51. | Which of the following boxes placed at the topmost position? | |
| | (A) J | |
| | (B) K | |
| | (C) Q | |
| | (D) P | |
| | (E) None of these | |
| Q52. | How many boxes are placed below box H? | |
| | (A) Two | |
| | (B) Three | |
| | (C) One | |
| | (D) None | |
| | (E) More than three | |
| | Direction (53-54): Study the following information carefully and answer the | |
| | questions given below: | |
| | | |
| | On five different days of the week starting from Tuesday to Saturday, five | |
| | persons P, Q, R, S, and T are going to watch movies but not necessarily in | |
| | the same order. The person belonging to China goes to watch the movie | |
| | after Q. Two persons are going to watch the movie between P and T. T goes | |
| | immediately before R. The one who belongs to Nepal goes immediately | |
| | before the one who belongs to Bhutan. Q belongs to England and goes to | |
| | watch the movie on Thursday. The one who belongs to China does not go | |
| | to watch the movie on Friday. P does not belong to India and China. | |
| Q53. | Who among the following belongs to Bhutan? | |
| | (A) P | |
| | (B) T | |
| | (C) S | |
| | (D) R | |
| | (E) The one who goes to watch movie on Tuesday | |
| Q54. | Which of the following statement is not true? | |
| | (A) P goes to watch movie on Tuesday | |
| | (B) All are true | |
| | (C) Q goes after P | |
| | (D) R belongs to China | |
| | (E) T goes on Thursday | |
| | Directions (55 – 56): Answer the questions based on the information given | |
| | below: | |
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| | Certain number of persons sits in a straight row facing north direction. |
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| | Only one person sit to the left of T and no one sit to the right of U. Six |
| | persons sit between T and R. Two persons sit between R and Q.S sits 2nd |
| | to the left of Q.P sits 3rd to the right of R. Number of persons between T |
| | and S is equal to the number of persons between P and U. |
| | |
| Q55. | How many persons sit in the row? |
| | (A) 12 |
| | (B) 14 |
| | (C) 13 |
| | (D) 15 |
| | (E) None of these |
| Q56. | How many persons sit to the right of Q? |
| | (A) Six |
| | (B) Five |
| | (C) Seven |
| | (D) Eight |
| | (E) None of these |
| | Directions (57–58): Answer the questions based on the information given |
| | below. |
| | Fourteen persons are sitting in a parallel row such that seven persons sit |
| | in each row. M, N, O, P, Q, R and S sit in row 1 and A, B, C, D, E, F and G sit in |
| | row 2. Persons in row 1 face south while persons in row 2 face north. |
| | Persons in row 1 and row 2 are facing towards each other. M sits in the |
| | middle of the row. Three persons sit between O and P, who sits opposite to |
| | F. One person sits between F and A. C sits to the immediate left of D. M |
| | sits opposite to A. C does not sit opposite to O. G sits opposite to N, who is |
| | not adjacent to P. B sits to the right of G. P is not adjacent to S. |
| Q57. | Who among the following sits opposite to Q? |
| (311 | (A) E |
| | (B) B |
| | (C) D |
| | (D) G |
| | (E) Cannot be determined |
| Q58. | How many persons sit to the right of P in same row? |
| | (A) Three |
| | (B) Four |
| | (C) Six |
| | (D) Five |
| | (D) None of these |
| | Directions (59 – 60): Answer the questions based on the information given |
| | below: |
| | Seven persons sit around a circular table. Some of them face towards the |
| | centre while others face outside. C sits 2nd to the right of E and both face |
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| | same direction. G sits beside C and faces outside. B sits 3rd to the left of | |
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| | G. F is the neighbor of A but neither of them sits beside C. D faces outside. | |
| | Neither D nor A sits 2nd to the left of G. F and A face same direction as E. | |
| Q59. | Who sits 2nd to the right of B? | |
| | (A) A | |
| | (B) D | |
| | (C) E | |
| | (D) Can't be determined | |
| | (E) None of these | |
| Q60. | Who sits 4th to the right of A? | |
| | (A) D | |
| | (B) E | |
| | (C) B | |
| | (D) None of these | |
| | (E) G | |