

**A10**

**Sreenidhi Institute of Science & Technology**

(An Autonomous Institution)

**Code No:101MA71**

**B.Tech III – Year I – Semester Examinations, December, 2014 (Supplementary)**

**LOGICAL REASONING**

**Time: 2 Hours Max. Marks : 50**

**Note : Answer Any 50 Questions.**

**Student can solve more than 50 questions, but maximum 50 marks will be awarded.**

**Calculator's are not allowed.**

**Q**

1. Introducing a girl, Vipin said, “Her mother is the only daughter of my mother-in-law”. How is Vipin related to that girl?
2. Uncle (b) Father (c) Brother (d) Husband (e) None of the above.
3. Showing the lady in the par, Vineet said, “ She is the daughter of my grandfather’s only son”. How is Vineet related to that lay?
4. Brother (b) Cousin (c) Father (d) Uncle (e) None of the above.
5. A man said to a lady, “Your mother’s husband’s sister is my aunt”. Ho is that lady related to that man?
6. Daughter (b) Sister (c) Grand-daughter (d) Mother (e) Aunt.

4. 4,7,11,18,29,47,….,123,199

(a) 76 (b)70 (c) 84 (d)102 (e) 95

5. 2,6,12,20,……….,42,56,72,90.

(a) 20 (b) 21 (c) 30 (d)12 (e) 23

6. 17, 7, 24, 19, 9, 28, …., 8, 31, 27, 10, 37.

(a) 20 (b) 21 (c) 18 (d) 12 (e) 23

7. The number of boys in a class are three times the number of girls. Which one of the following number can’t represent the total number of children in the class?

(a) 48 (b) 44 (c) 42 (d) 40

8. The sum of the ages of a son and father is 56 years. After four years, the age of the father will be three times that of the son. Their ages respectively are:

(a) 12 years, 44 years (b) 16 years, 42 years (c) 16 years, 48 years (d) 18 years, 36 years.

9. 21 ÷ 8 + 2 – 12 X 3 =?

(a) 14 (b) 9 (c) 13.5 (d) 11 (e) None of these

10. 6+7 X 3 – 8 ÷ 20 = ?

(a) -3 (b) 7 (c) 2 (d) 1 (e) None of these

**Question 11-14.**

Sumeet, Philips, Wasim, Bishan and Chetan are five players of the college cricket team and their home town are Surat, Pune, Warangal, Bangalore and Chandigarh. But not in that order the five specialist slots of spinner, pace bowler, wicket keeper, batsman and captain are held by them.

1. Their names home towns and specialties do not start with the same letter.
2. Neither Philips nor Wasim is the captain and they do not belong to either Surat or Bangalore
3. Summet is neither a wicket keeper nor batsman
4. Pune is not Bishn’s home town
5. The player who hails from Bangalore is wicket keeper.
6. The captain’s home town is Pune while the batsman does not hail from Warangal.

11. The spinner’s home town is

a) Chandigarh b) Bangalore c) Warangal d) Pune

12. Who the pace bowler?

a) Chetan b) Wasim c) Sumeet d) Bishan

13. Who is the spinner?

a) Philips b) Chetan c) Bishan d) Wasim

14. Chetan’s home town is

a) Pune b) Surat c) Warangal d) Bangalore

**Question 15-17:**

There are six persons A, B, C, D, E and F, C is the sister of F. B is the brother of E’s husband. D is the father of A and grand father of F there are two fathers, three brothers and a mother in the group.

15. Who is the mother

a) A b) B c) D d) E

16. How is F related to E

a) Uncle b) Husband c) Son d) Daughter

17. How many male numbers are there in the group.

a) One b) two c) three d) Four

18. If JAPAN is written as 9015013 then code of INDIA

1. 831308 b) 914941 c) 813380 d) 813308

19. The last digit in 22x23x24x ………x 29.

a) 0 b) 9 c) 7 d) 2

20. In a certain code AUDIOS is written XXALLV then code of STEREO

a) PVBUHR b) PWBUHR c) PWBUBR d) PVBUBR

21. If COMPUTER is EROSWWGU then SOFTWARE is

a) URHWYDTH b) UQIWYDTH c) URIWIDTH d) UQHWYDTH

22. If MONITORING is 13P14J20P18J14 then COMPONENTS is

a) 3O13Q15O20T b) 3P13Q1505020T c) 3P13P1505020T d) None

23. If SEPARATE is ESTEAPRA then VIOLENCE is

a) IVCNELOE b) EVCINOEL c) IVLONECE d) EVICINEOL

24. JAK, KBL, LCM, MDN \_\_\_\_\_\_

a) QEP b)NEO c)MEN d)PFQ

25. 1,2,4,7,28, \_\_\_\_\_,198,205

a) 31 b)32 c)33 d)34

26. AB CA FB JA \_\_\_\_\_\_\_\_

a)OB b)OC c)NA d)NB

27. B,F,J,P,\_\_\_\_\_

a) U b)Y c) W d) X

28. If Horse: Stable then Cow: \_\_\_\_\_\_\_

a) Cage b) Den c) Burrow d) Shed

29. If Olympics: 8 then Wimbledon: \_\_\_\_\_\_\_

a) 1 b) 2 c) 3 d) 4

30. If Tennis: Players: 12 then Cricket: Players: \_\_\_\_\_

a) 39 b) 33 c) 22 d) 26

31. Find the image of the point (2,8) with respect to the line x+2y-8=0.  
a)(-2,0) b)(2,-1) c)(-1,-2) d)(-1,0)

32. If p and q are integers and pq = 21 then find p2 + q2.

a)442 b)58 c)both a and b are possible d)none of these

33. Find the value of (q-1)(p-1) where p and q are positive integers such that pq = 49.  
a) -1 b)49 c)46656 d)2401

(34-42)Choose the correct alternative from the following options as given below for the Assertion (A) and Reason (R), given in each of the questions.

1. Both (A) and (R) are true and (R) is the correct explanation of (A).
2. (A) is true but (R) is false.
3. (A) is false but (R) is true.
4. Both (A) and (R) are true but (R) is not the correct explanation of (A).
5. Both (A) and (R) are false.
6. Assertion (A) : When common salt is kept open, it absorbs moisture from the air.

Reason(R) : Common salt contains magnesium chloride.

1. Assertion (A): The steam engine was invented by James Watt.

Reason(R): There was a problem of taking out water from flooded mines.

1. Assertion (A): We prefer to wear white clothes in winter.

Reason(R): White clothes are good reflectors of heat.

1. Assertion (A) : Earthworms are not good for agriculture.

Reason(R): Earthworms break down the soil into fine particles and make it soft.

1. Assertion (A): Mercury is the farthest planet from the sun.

Reason(R): Mercury is the smallest planet in the entire solar system.

1. Assertion (A): Red green colour blindness occurs with more frequency in males than in females.

Reason(R): Females have two chromosomes and males have one.

1. Assertion (A): Indus Valley people knew the art of navigation.

Reason(R): Indus Valley seals indicate prevalence of overseas trade.

1. Assertion (A): Noise pollution is an unwanted accumulation of noise in the atmosphere.

Reason(R): It interference with the communication.

1. Assertion (A): Akbar found Din-E-Illahi

Reason(R): He was motivated be self glorification.

43. In an entrance test, 4 marks is allowed for each correct answer and 2 marks subtracted for a wrong answer. If Arun scores 480 marks from 150 questions, find the number of questions that are correct ?

a)121 b)100 c)130 d)111

44. If 80 is divided into four parts (four integers) such that when 3 is added to 1st part, 3 is subtracted from the 2nd part, 3 is multiplied by the 3rd part and 4th part is divided by 3, all result the same number then what will be the ratio of the largest to the smallest part?

a)8:3 b)9:1 c)12:5 d)2:1

45.There is a password of four digit number, if the 2nd digit is 5, the sum of the 1st and 3rd digit is equal to the 2nd digit and the last digit is equal to the first digit then finds the number of ways to access a password which has an odd number be the sum of its digits.

a)1 b)2 c)3 d)0

46. If the summation and multiplication of two integer is 24 and 143 respectively then the difference of them is:

a)2 b)1 c)12 d)4

47. If ab = 216 and a,b are integers then [(a+b)(b-2)] x b(a-4) is

a)(a+b)2 b)(a-b)2 c)(a2 + b2) d)none of these

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| 48. | One morning Udai and Vishal were talking to each other face to face at a crossing. If Vishal's shadow was exactly to the left of Udai, which direction was Udai facing? |
| |  |  |  |  | | --- | --- | --- | --- | | [A.](javascript:%20void%200;) | East | [B.](javascript:%20void%200;) | West | | [C.](javascript:%20void%200;) | North | [D.](javascript:%20void%200;) | South | |
| 49. | Y is in the East of X which is in the North of Z. If P is in the South of Z, then in which direction of Y, is P? |
| |  |  |  |  | | --- | --- | --- | --- | | [A.](javascript:%20void%200;) | North | [B.](javascript:%20void%200;) | South | | [C.](javascript:%20void%200;) | South-East | [D.](javascript:%20void%200;) | None of these | |
| 50. | If South-East becomes North, North-East becomes West and so on. What will West become? |
| |  |  |  |  | | --- | --- | --- | --- | | [A.](javascript:%20void%200;) | North-East | [B.](javascript:%20void%200;) | North-West | | [C.](javascript:%20void%200;) | South-East | [D.](javascript:%20void%200;) | South-West | |
| 51. | A man walks 5 km toward south and then turns to the right. After walking 3 km he turns to the left and walks 5 km. Now in which direction is he from the starting place? |
| |  |  |  |  | | --- | --- | --- | --- | | [A.](javascript:%20void%200;) | West | [B.](javascript:%20void%200;) | South | | [C.](javascript:%20void%200;) | North-East | [D.](javascript:%20void%200;) | South-West | |
| 52.Which of the following diagrams indicates the best relation between Teacher, Men and Women ? |
| |  |  |  |  | | --- | --- | --- | --- | | [A.](javascript:%20void%200;) | http://www.indiabix.com/_files/images/verbal-reasoning/venn-diagram/4-19-1-c2.png | [B.](javascript:%20void%200;) | http://www.indiabix.com/_files/images/verbal-reasoning/venn-diagram/4-19-1-c3.png | | [C.](javascript:%20void%200;) | http://www.indiabix.com/_files/images/verbal-reasoning/venn-diagram/4-19-1-c5.png | [D.](javascript:%20void%200;) | http://www.indiabix.com/_files/images/verbal-reasoning/venn-diagram/4-19-1-c9.png | |
| 53.Which of the following diagrams indicates the best relation between Oil, Wick and Lamp ? |
| |  |  |  |  | | --- | --- | --- | --- | | [A.](javascript:%20void%200;) | http://www.indiabix.com/_files/images/verbal-reasoning/venn-diagram/4-19-1-c6.png | [B.](javascript:%20void%200;) | http://www.indiabix.com/_files/images/verbal-reasoning/venn-diagram/4-19-1-c3.png | | [C.](javascript:%20void%200;) | http://www.indiabix.com/_files/images/verbal-reasoning/venn-diagram/4-19-1-c9.png | [D.](javascript:%20void%200;) | http://www.indiabix.com/_files/images/verbal-reasoning/venn-diagram/4-19-1-c11.png | |
| 54.A woman says, "If you reverse my own age, the figures represent my husband's age. He is, of course, senior to me and the difference between our ages is one-eleventh of their sum." The woman's age is |
| |  |  | | --- | --- | | [A.](javascript:%20void%200;) | 23 years B. 34 Years C. 45 Years D. None of These | |
| 55.A girl counted in the following way on the fingers of her left hand : She started by calling the thumb 1, the index finger 2, middle finger 3, ring finger 4, little finger 5 and then reversed direction calling the ring finger 6, middle finger 7 and so on. She counted upto 1994. She ended counting on which finger ? |
| |  |  | | --- | --- | | [A.](javascript:%20void%200;) | Thumb B. index finger C. Middle Finger D. Ring Finger | |
| 56.A man has Rs. 480 in the denominations of one-rupee notes, five-rupee notes and ten-rupee notes. The number of notes of each denomination is equal. What is the total number of notes that he has ? |
| |  |  |  |  | | --- | --- | --- | --- | | [A.](javascript:%20void%200;) | 45 | [B.](javascript:%20void%200;) | 60 | | [C.](javascript:%20void%200;) | 75 | [D.](javascript:%20void%200;) | 90 | |
| 57. | Two positions of a block are given below. When 1 is at the top, which number will be at the bottom?  http://www.indiabix.com/_files/images/non-verbal-reasoning/cubes-and-dice/dice/31.png |
| |  |  |  |  | | --- | --- | --- | --- | | [A.](javascript:%20void%200;) | 2 | [B.](javascript:%20void%200;) | 3 | | [C.](javascript:%20void%200;) | 4 | [D.](javascript:%20void%200;) | 6 | |

|  |  |
| --- | --- |
| 58. | What number is opposite 3 in the figure shown below? The given two positions are of the same dice whose each surface bears a number among 1, 2, 3, 4, 5 and 6.  http://www.indiabix.com/_files/images/non-verbal-reasoning/cubes-and-dice/dice/25.png |
| |  |  |  |  | | --- | --- | --- | --- | | [A.](javascript:%20void%200;) | 2 | [B.](javascript:%20void%200;) | 4 | | [C.](javascript:%20void%200;) | 5 | [D.](javascript:%20void%200;) | 6 | |
| 59.Amongst the following figures, find the correct one, if it is known that the total number of dots on opposite faces of the cube shown is always 7.  http://www.indiabix.com/_files/images/non-verbal-reasoning/cubes-and-dice/dice/9.png |
| 60.Count the number of squares in the given figure.  http://www.indiabix.com/_files/images/non-verbal-reasoning/analytical-reasoning/33.png |
| |  |  |  |  | | --- | --- | --- | --- | | [A.](javascript:%20void%200;) | 32 | [B.](javascript:%20void%200;) | 30 | | [C.](javascript:%20void%200;) | 29 | [D.](javascript:%20void%200;) | 28 | |

61.On dividing (18377)10 by 11 the remainder will be

a)1 b)10 c)9 d)2

62.FHKN : HJMP :: KRWZ : ?

a) CEGI b) MTYB c) QTVX d) GIKM

63.DGKN : BIIP :: FJMQ : ?

a) DLKO b) FHKO c) EGIN d) BENY

64.GKNQ : ? :: DHLO : WSOL

a) XVBE b) DBHS c) TPMJ d) QZXO

65.The last day of a century cannot be

a) Sunday b) Tuesday c) Wednesday d) Friday

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

a) 24 b) 22 c) 44 d) 48

67 What will be the day on 1st January 2030

a) Monday b) Tuesday c) Wednesday d) Saturday

68. G, H, J, M, \_, V

a)T b)S c)R d)Q

69. ABD, DGK, HMS, MTB, SBL,\_\_\_\_\_\_\_\_

a) XKW b) ZAB c) ZKU d) ZKW

70.Doctor : Patient :: Politician :

a) Masses b) voter c) power d) chair

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