

EXAMINATION CODE : **04**

QUESTION BOOKLET SL. NO.

Dist. Code	Registration No.

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**QUESTION BOOKLET - PAPER-I**

(Before answering questions read carefully the instructions given in the Question Booklet)

**SUBJECTS : GENERAL KNOWLEDGE, EDUCATIONAL PSYCHOLOGY AND MENTAL ABILITY**

(This paper is common for all the candidates)

**MAXIMUM MARKS : 100**

**MAXIMUM TIME : 2 HOURS**

**10.00 a.m. to 12.00 noon**

(Including initial 10 minutes for filling O.M.R. Answer Sheet)

**INSTRUCTIONS TO THE CANDIDATES**

1. The sealed Question Booklet containing **100** questions enclosed with O.M.R. Answer Sheet is given to you.
2. Open the question paper seal carefully and take out the enclosed OMR Answer sheet outside the question booklet. Fill up the general information and shade relevant circles from Sl. No. 1 to 8 of O.M.R. Answer Sheet. If you fail to fill up the details in the form of alphabet and signs as instructed, you will be personally responsible for consequences arising during scoring of your answer sheet.
3. See that the question paper booklet number and the O.M.R. Answer sheet number are same. If there is difference, inform the Room Supervisor immediately.
4. Enter the Question Paper Booklet Sl. No. in the OMR Answer Sheet at Sl. No. 4.
5. During the Examination :-
  - (a) Read each question carefully.
  - (b) Select the correct answer out of the four choices given under each Question.
  - (c) Completely darken/shade the relevant circle against Question No. in the O.M.R. Answer Sheet. For example, in a question paper if Sl. No. 3 is correct answer for Question No. 20, then darken before Sl. No. 20 of O.M.R. Answer Sheet using blue / black ball point pen as follows :  
**20. ① ② ● ④** (Only example)
6. Rough work should be done only on the blank space provided in the Question Booklet. Rough work should not be done on the O.M.R. Answer Sheet.
7. If more than one circle is darkened for a given question, such answer is treated as wrong and no mark will be given. See the example in O.M.R. Answer Sheet.
8. The candidate and the Room Supervisor should sign in the O.M.R. Sheet at specified place. Candidate has to put left hand thumb impression at specified place compulsorily.
9. Each of the candidate is given carbonless O.M.R. Answer sheet in duplicate. Candidate should return the original O.M.R. Answer sheet to the Room Supervisor and retain carbon copy of the same with him after the examination.
10. Log Tables, Calculator, Pager & Mobile phones are not allowed inside the examination hall.
11. After answering the questions writing the information at Sl. No. 8 is compulsory.
12. Do not use white fluid to change the answer, such answers will not be considered for valuation.
13. **If a candidate is found committing malpractice, such a candidate shall not be considered for recruitment and action will be taken against such candidate as per rules.**

**INSTRUCTIONS TO FILL UP THE O.M.R. SHEET**

1. There is only one correct answer for each question.
2. Circles must be darkened with **BLUE** or **BLACK** ball point pen only. Do not try to alter the entry.
3. Circles should be darkened completely so that the numeral inside the circle is not visible.
4. Do not make any stray marks on this sheet.
5. This is a carbonless Answer Sheet. There is no need to shade the second copy separately.

□ Paper-I

SEAL

## ENGLISH VERSION

1. The air we inhale is mixture of gases. Which of the following gases in the mixture is highest in percentage ?
- (1) Carbon dioxide
  - (2) Nitrogen
  - (3) Oxygen
  - (4) Ozone
2. Pressure cooker cooks rice faster because
- (1) it always lets the steam escape
  - (2) high pressure crushes the hard covering of the rice grains
  - (3) it does not let heat energy to escape easily
  - (4) high pressure raises the boiling point of water
3. In India the highest decadal (2001 – 2011) growth rate in population is recorded in
- (1) Noida (UP)
  - (2) Kurung Kumey (Arunachal Pradesh)
  - (3) Gurgaon (Haryana)
  - (4) Chintamani (Karnataka)
4. The clear sky looks blue because of
- (1) dispersion of light
  - (2) diffraction of light
  - (3) reflection of light
  - (4) refraction of light
5. Richter scale is used for measuring
- (1) density of liquid
  - (2) intensity of earthquake
  - (3) humidity of air
  - (4) velocity of wind
6. Which of the following Union Territories of India has the highest density of population per sq km ?
- (1) Chandigarh
  - (2) Delhi
  - (3) Lakshadweep
  - (4) Puducherry
7. Dr. V. Kurien is famous in the field of
- (1) Atomic power
  - (2) Dairy development
  - (3) Economic Reforms
  - (4) Poultry development
8. The world famous Ajanta caves are situated in
- (1) Andhra Pradesh
  - (2) Kerala
  - (3) Maharashtra
  - (4) Orissa
9. Pollination is best defined as
- (1) germination of pollen grains
  - (2) growth of pollen tube in ovule
  - (3) transfer of pollen grains from anther to stigma
  - (4) insects visiting flowers
10. The first Indian actress to have been nominated to the Rajya Sabha was
- (1) Hema Malini
  - (2) Jaya Pradha
  - (3) Nargis Dutt
  - (4) Rekha

11. Which city is known as 'Electronic City of India' ?  
 (1) Bangalore (2) Kolkata  
 (3) New Delhi (4) Mumbai
12. Vikram Sarabhai Space Centre is located at  
 (1) Ahmedabad  
 (2) Pune  
 (3) Sriharikota  
 (4) Thiruvananthapuram
13. It is more difficult to walk on a sandy road than on a concrete road because  
 (1) sand is soft and concrete is hard  
 (2) the sand is grainy but concrete is smooth  
 (3) the friction between sand and feet is less than that between concrete and feet  
 (4) the friction between sand and feet is more than that between concrete and feet
14. Light travels fastest in  
 (1) glass (2) nitrogen  
 (3) vacuum (4) water
15. Amnesty International is an organisation associated with which of the following fields ?  
 (1) Environment protection  
 (2) Protection of cruelty to animals  
 (3) Protection of historic monuments  
 (4) Protection of human rights
16. TRIPS (Trade related aspects of Intellectual Property Rights) agreement is administered by  
 (1) UNO (United Nations Organization)  
 (2) UNCTAD (United Nations Conference on Trade and Development)  
 (3) WB (World Bank)  
 (4) WTO (World Trade Organization)
17. How many players play on each side in basket ball game ?  
 (1) 6 (2) 5  
 (3) 4 (4) 3
18. The President of India can dissolve the Lok Sabha on the  
 (1) advice of the Prime Minister  
 (2) advice of the Chief Justice of India  
 (3) recommendation of the Lok Sabha  
 (4) recommendation of the Rajya Sabha
19. The chemical name of Vitamin B is  
 (1) ascorbic acid  
 (2) nicotinamide  
 (3) riboflavin  
 (4) thiamine
20. Bijapur is known for its  
 (1) Gol Gumbaz  
 (2) Heavy rainfall  
 (3) Statue of Gomateswara  
 (4) Severe drought conditions
21. Plants synthesise protein from  
 (1) amino acids (2) fatty acids  
 (3) sugar (4) starch

22. The members of the Rajya Sabha are elected by
- (1) the people
  - (2) Lok Sabha
  - (3) elected members of the Legislative Assembly
  - (4) elected members of the Legislative Council
23. The position of Chief Minister is
- (1) similar to that of Prime Minister
  - (2) identical to that of President
  - (3) a combination of the position of Prime Minister and President
  - (4) non-constitutional
24. The 'Dronacharya' award is given to
- (1) Sportsmen
  - (2) Coaches
  - (3) Umpires
  - (4) Sports Editors
25. Who invented fountain pen ?
- (1) John J. Loud
  - (2) A.B. Fountain
  - (3) Lewis E. Waterman
  - (4) Kirkpatrick Macmillan
26. India's tallest stone statue of Jain sage Gomateswara is located at
- (1) New Delhi
  - (2) Mandu, Madhya Pradesh
  - (3) Shravanabelagola, Karnataka
  - (4) Mysore, Karnataka
27. Who wrote the famous book "We, the People" ?
- (1) T.N. Kaul
  - (2) J.R.D. Tata
  - (3) Kushwant Singh
  - (4) Nani Palkhiwala
28. In a normal human being, the time taken by food to reach the end of the intestine for complete absorption is about
- (1) 1 day
  - (2) 16 hours
  - (3) 14 hours
  - (4) 12 hours
29. Malfunctioning of which of the following organs causes jaundice ?
- (1) Kidney
  - (2) Liver
  - (3) Pancreas
  - (4) Stomach
30. ICMR stands for
- (1) Indian Council of Medical Research
  - (2) Indian Council of Malaria Research
  - (3) International Council for Meteorological Research
  - (4) Indian Chamber of Merchants and Retailers
31. Numismatics is the study of
- (1) coins
  - (2) numbers
  - (3) personality
  - (4) stamps
32. Light year is related to
- (1) distance
  - (2) energy
  - (3) intensity
  - (4) speed
33. The active sportsman who was nominated to Rajya Sabha in April 2012 is
- (1) Rahul Dravid
  - (2) Sunil Gavaskar
  - (3) Sachin Tendulkar
  - (4) Pankaj Advani



34. Educational Psychology is mainly concerned with
- (1) increasing efficiency of student learning
  - (2) finding easy ways of teaching
  - (3) creating effective management homework
  - (4) improving quality of textbooks
35. Major contributions of Carl Rogers are to the development of
- (1) behaviouristic psychology movement
  - (2) humanistic psychology movement
  - (3) psychoanalytic approach in psychology
  - (4) structuralistic approach to psychology
36. Most important attribute of creative product is
- (1) perfection
  - (2) beauty
  - (3) originality
  - (4) workability
37. The educational psychologist uses his knowledge of the cognitive development of students mainly to improve the effectiveness of
- (1) student teacher interaction
  - (2) interaction with learning environment
  - (3) learner interaction with parents
  - (4) interaction with peers
38. A boy aged 10 yrs answers intelligence test items correctly to get a total mental age of 11 yrs. 6 months. His IQ is
- (1) 100
  - (2) 138
  - (3) 115
  - (4) 120
39. A born dumb girl of five can be taught writing and recognizing pronunciation of alphabets by including her in the normal class, as she can write and
- (1) try saying with others by seeing others
  - (2) can only compare her writing with others
  - (3) hear others pronounce and compare her writing
  - (4) cannot compare writing
40. Piaget adopted in his studies on child's stages of cognitive development
- (1) experimental method
  - (2) clinical method
  - (3) survey method
  - (4) incidental observation method
41. Growing child profits most from exposure to incidental or planned learning situations if he has
- (1) development readiness
  - (2) maturity in thinking
  - (3) suitable age
  - (4) physical fitness

42. J P Guilford is the exponent of this theory of intelligence :
- (1) Unitary theory
  - (2) g and s factor theory
  - (3) Structure of Intellect theory
  - (4) Group factor theory
43. During a lesson, asking the student a question to which he is sure to give correct answer helps the teacher
- (1) to praise for correct answer
  - (2) to scold him for wrong answer
  - (3) to be neutral for the answer
  - (4) ask a more difficult question
44. In studying children of different age groups, method preferred for collecting data simultaneously is
- (1) survey method
  - (2) clinical method
  - (3) historical method
  - (4) experimental method
45. In teaching, to end up with meaningful learning, desirable responses from the student need to be
- (1) in meaningful sequence
  - (2) represented meaningfully first
  - (3) repeated meaningfully aloud
  - (4) enforced to accept meaning
46. Whatever be the occasion, a teacher cannot escape from doing an analysis of his own actions by
- (1) experimentation
  - (2) case study
  - (3) biographical study
  - (4) introspection
47. The following is an important step in experimental method :
- (1) Getting consent of child
  - (2) Recording special events
  - (3) Setting up hypothesis
  - (4) Elimination of unwanted data
48. The following approach is the most suitable to solve aggressive behaviour of a student in class :
- (1) Taking disciplinary action
  - (2) Excluding him from the class
  - (3) Studying his case and treating the cause
  - (4) Tolerating his aggressive action
49. Children below 11 years are not generally capable of
- (1) abstract logical thought
  - (2) concrete logical thought
  - (3) reverse concrete operation
  - (4) operating with counting objects
50. To study the effect of a new method of teaching, teachers prefer the following method :
- (1) Experiment
  - (2) Introspection
  - (3) Historical review
  - (4) Longitudinal survey



51. Intelligence, memory and other factors being equal, long-term retention of learning is strongly dependent on
- (1) intervention by other learning activities
  - (2) initial level of mastery
  - (3) initial length of learning practice
  - (4) freedom and relaxation
52. If the right responses towards the desirable behaviour are rewarded regularly
- (1) desirable behaviour cannot be reached
  - (2) desirable behaviour will be more likely reached
  - (3) undesirable behaviour also persists
  - (4) undesirable behaviour will vanish
53. Always giving tangible rewards for the best behaviour of a learner with high intrinsic motivation
- (1) supports to intrinsic motivation
  - (2) reduces intrinsic motivation
  - (3) requires extrinsic motivation a compulsion
  - (4) requires no extrinsic motivation later
54. The following is a standardized test of intelligence :
- (1) Sixteen PF
  - (2) Thematic Apperception Test
  - (3) Stanford-Binet test
  - (4) Rorschach Inkblot Test
55. Using standardized intelligence test score distribution, we can stratify or divide the group into levels such as
- (1) introverts and extroverts
  - (2) dominant and submissive
  - (3) high and low motivation
  - (4) high, average or low ability
56. The teacher can cater well to the individual learning needs of different students in a subject of study if in that subject he has their
- (1) total marks in a test
  - (2) chapter or component wise marks
  - (3) previous and present year marks
  - (4) average marks in two or more tests
57. Intrinsic motivation is not concerned with
- (1) will they bring to a task
  - (2) utility they perceive
  - (3) tangible rewards announced
  - (4) their felt needs to be fulfilled
58. According to Gagne, problem solving is
- (1) a lower level process of learning
  - (2) not a process of learning
  - (3) is not supportive to learning
  - (4) high level process of learning

59. When boys and girls develop intense feeling of attraction towards members of other gender, this instinct is active
- (1) Parental instinct
  - (2) Gregariousness instinct
  - (3) Curiosity instinct
  - (4) Sex instinct
60. According to Freud human personality is comprised of interaction of major psychological forces of
- (1) dominance and submission
  - (2) organization of self in group
  - (3) id, ego and super ego
  - (4) drive for mastery and novelty
61. In experimental method, the hypothesis states in advance the impact of
- (1) intervening variable on independent variable
  - (2) dependent variable on independent variable
  - (3) independent variable on dependent variable
  - (4) independent variable moderator variable
62. Extrinsic motivation deals with motivations that follow response such as
- (1) immediate awareness of correctness of response
  - (2) delayed awareness of correctness of response
  - (3) immediate consequences like getting a candy or viewing TV
  - (4) prior knowledge of utility of learning a task
63. In non-participant observation method, the observer is
- (1) any participant
  - (2) not part of the situation
  - (3) not investigator
  - (4) any volunteer
64. Traditional intelligence tests are lopsided as the following aspect of intellectual functioning is not represented well :
- (1) Convergent thinking
  - (2) Evaluative thinking
  - (3) Problem solving
  - (4) Divergent thinking
65. In cooperation, the individual contributes his resources to improve
- (1) his performance
  - (2) peer performance
  - (3) group performance
  - (4) weaker peer performance
66. Using sociogram, we can identify the individuals who are
- (1) most preferred by others
  - (2) personal preferences
  - (3) bad group members
  - (4) self centred introverts
67. An individual who is emotionally and psychologically balanced under varying circumstances is in a state of
- (1) good mental health
  - (2) suffering and ill health
  - (3) insensitive to situations
  - (4) non-reactive to reality





Question Nos. 68 and 69 :

68. Find the missing number in the following :

4, 4, 8, 24, 96, ?

- (1) 480                      (2) 360  
(3) 300                      (4) 240

69. The missing number in the following series is :

5, 7, 12, 19, 31, 50, ?

- (1) 121                      (2) 101  
(3) 99                        (4) 81

70. The wrong number in the given series is :

5, 27, 61, 122, 213, 340

- (1) 27                        (2) 61  
(3) 122                      (4) 213

Question Nos. 71 and 72 : Complete the following letter series :

71. BFJ, NRV, ZDH, LPT, ?

- (1) XBF                      (2) WCF  
(3) YBE                      (4) XBG

72. \_\_\_ xyx \_\_\_ yx \_\_\_ xy

- (1) x y x y x              (2) x y y x y  
(3) y x y x y              (4) x x y y x

Question Nos. 73 to 75 : In the following questions four words are given under Column-I and their codes under Column-II. The codes are not in the same order as letters in the words. Find the codes for each letter and answer the questions.

Column - I Words	Column - II Codes
AREA .....	ebje
BOND.....	vsog
TRACE.....	ejib
DECIDE.....	lbobot

73. The code for the word TREND is  
(1) bjiso                      (2) jibso  
(3) ijbso                      (4) jiosb

74. What is the code for the word BREAD ?  
(1) igebo                      (2) gibov  
(3) giebo                      (4) gjbeo

75. Find the code for the word DIRECT.  
(1) otjbli                      (2) ojbilt  
(3) jtoilb                      (4) tjboil

76. Facing towards South Rashmi walked 50 mtrs. She then turned to her right and walked 30 mtrs. She again turned right and walked 50 mtrs. How far was she from her starting point and in which direction is she now ?  
(1) 50 mtr North  
(2) 50 mtr South  
(3) 30 mtr North  
(4) 30 mtr East

Space For Rough Work

77. If we assume  $64 \times 52 = 17$ ,  $48 \times 56 = 23$  and  $74 \times 35 = 19$ , then what is  $84 \times 37$  ?

- (1) 32                      (2) 28  
(3) 24                      (4) 22

78. If in a code language POPULAR is coded as QPQVMBS, then which word would be coded as GBNPVT ?

- (1) EAMOSU      (2) FAMOUS  
(3) FASOUM      (4) AEOMUS

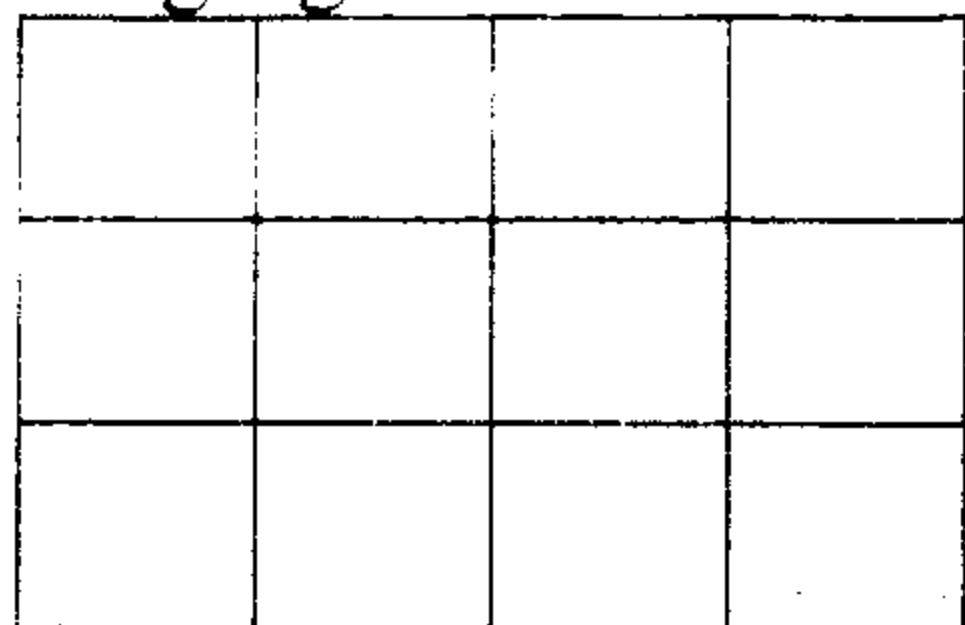
79. Which one of the following is different from others ?

- (1) 145                      (2) 257  
(3) 399                      (4) 290

80. Which one of the following is different from others ?

- (1) 8936                      (2) 6892  
(3) 5974                      (4) 5785

81. The number of square in the following figure is :



- (1) 12                      (2) 15  
(3) 18                      (4) 20

82. The least number which when divided by 8, 12, 16, 20 and 30 leaves remainder 1 ?

- (1) 241                      (2) 283  
(3) 371                      (4) 396

83. A and B start from the same point O. A walks 6 mtr to the East and B walks 6 mtr towards the West. Now A walks 9 mtr towards the North and B moves 4 mtr towards the North. What is the nearest distance between them from the end points ?

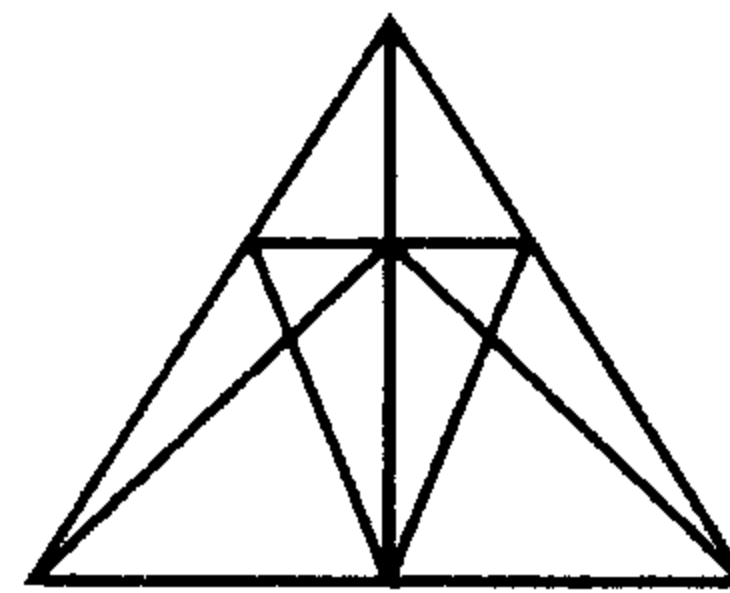
- (1) 17 mtr                      (2) 16 mtr  
(3) 14 mtr                      (4) 13 mtr

84. Study the given figure carefully and find the missing number :

T	M	7
P	K	5
S	Q	?

- (1) 1                              (2) 2  
(3) 7                              (4) 9

85. Find the number of triangles in the figure given below :



- (1) 28                              (2) 26  
(3) 24                              (4) 22

86. In an examination 70% of the students pass in English, 60% pass in History and 40% in both. What percent of the students fail in both ?

- (1) 30 %                      (2) 20 %  
(3) 10 %                      (4) 5 %

Space For Rough Work



Question Nos. 87 – 88 : Complete the given analogy.

87.  $9 : 8 :: 16 : ?$

- (1) 18                      (2) 24  
(3) 27                      (4) 64

88.  $6 : 60 :: ? : 504$

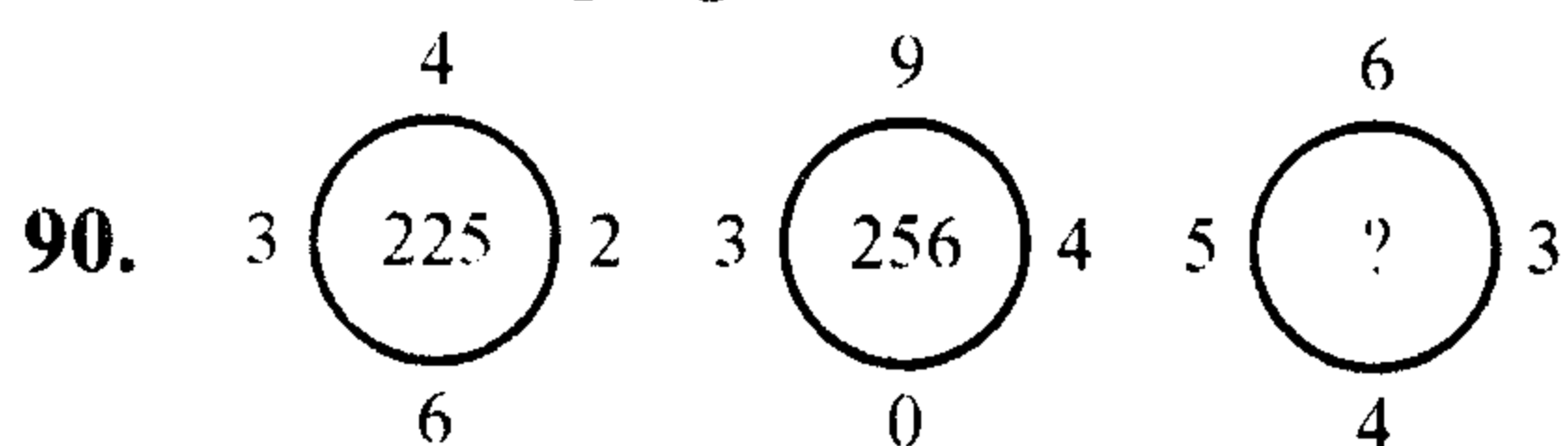
- (1) 363                      (2) 352  
(3) 286                      (4) 210

89. If 12 friends shake hands mutually in a party, then the number of shake hands is

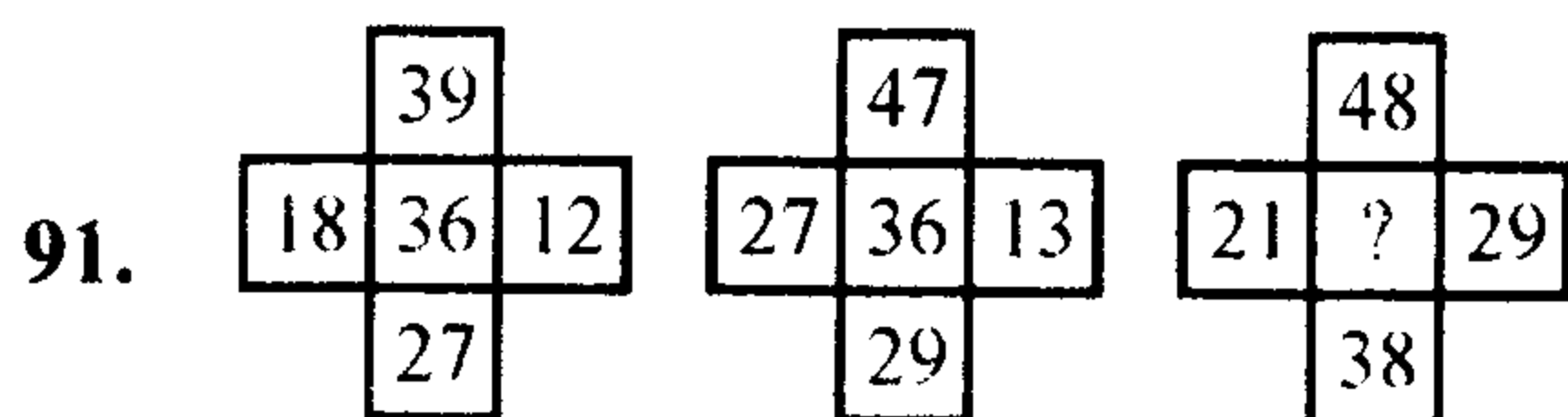
- (1) 66                      (2) 68  
(3) 70                      (4) 72

Question Nos. 90 and 91 :

Find the missing number in the following figures :



- (1) 289                      (2) 324  
(3) 361                      (4) 400



- (1) 46                      (2) 42  
(3) 40                      (4) 36

92. In a code language 35796 is written as 44887. What is the code for 46823 ?

- (1) 35914                      (2) 55914  
(3) 66833                      (4) 55882

93. Eight children M, N, O, P, Q, R, S and T are sitting in two rows of four each in the following way :

(i) Q is sitting in front of P and N is at the back of O.

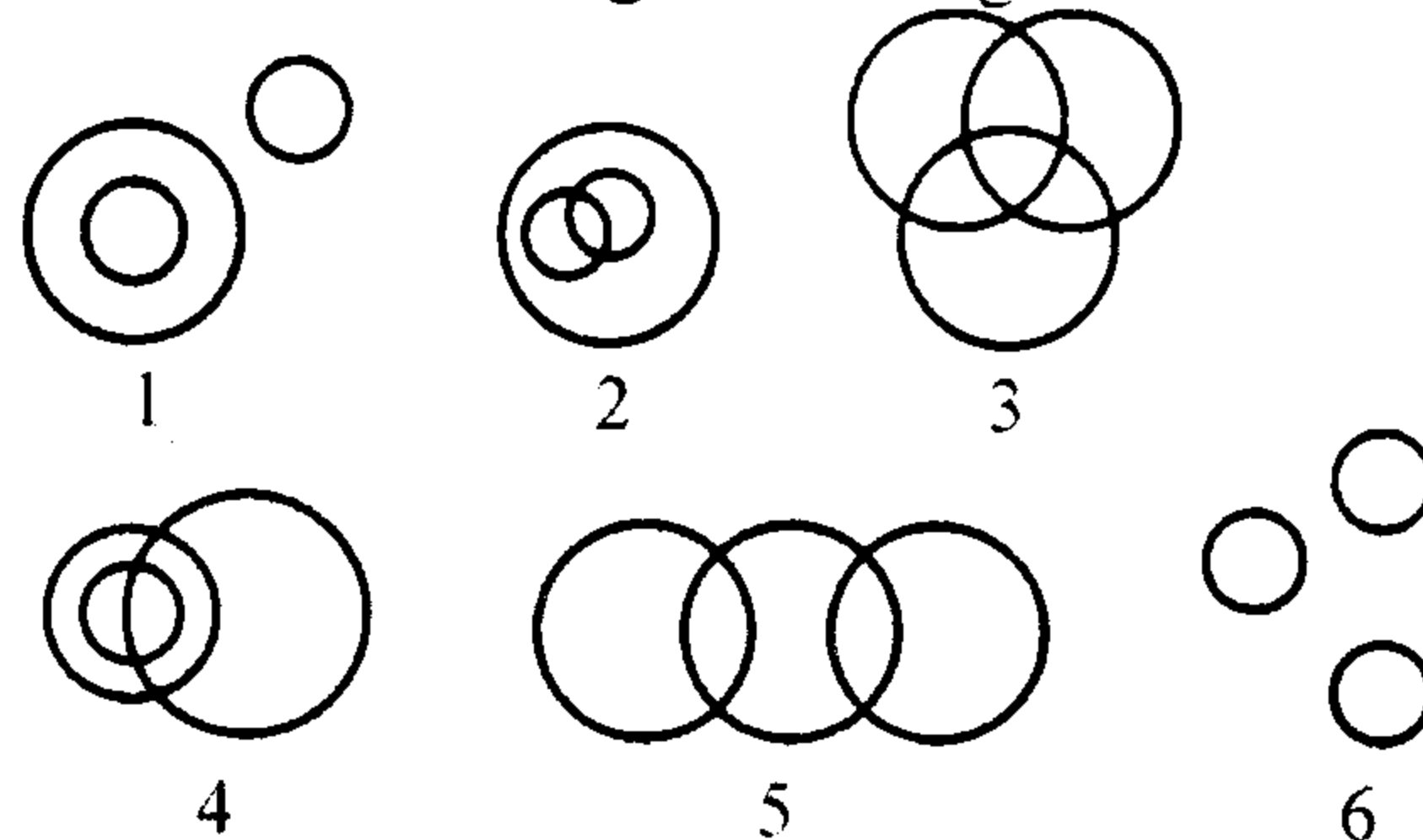
(ii) T is sitting between N and S.

(iii) M is sitting in front of S.

Who is sitting in front of T ?

- (1) N                      (2) P  
(3) Q                      (4) R

Question Nos. 94 – 95 are based on the following Venn diagrams :



94. Which Venn diagram represents the relationship among : Women, Teachers, Married-women ?

- (1) 4                      (2) 3  
(3) 2                      (4) 1

95. Which Venn diagram represents the relationship among : Players, Cricket, Tennis ?

- (1) 5                      (2) 4  
(3) 3                      (4) 2

Space For Rough Work

96. How many 5's are there in the following sequence of numbers in such a way that the sum of the two immediately following digits is greater than the sum of the two immediately preceding digits ?

37658324554879153487598764

- (1) One                      (2) Two  
(3) Three                    (4) Four

97. In the following question number of letters skipped in between adjacent letters follow a particular rule. Which one of the following group of letters observe this rule ?

- (1) G I K N Q S U  
(2) P R T V X Z B  
(3) B D G I K M O  
(4) L K M P S U X

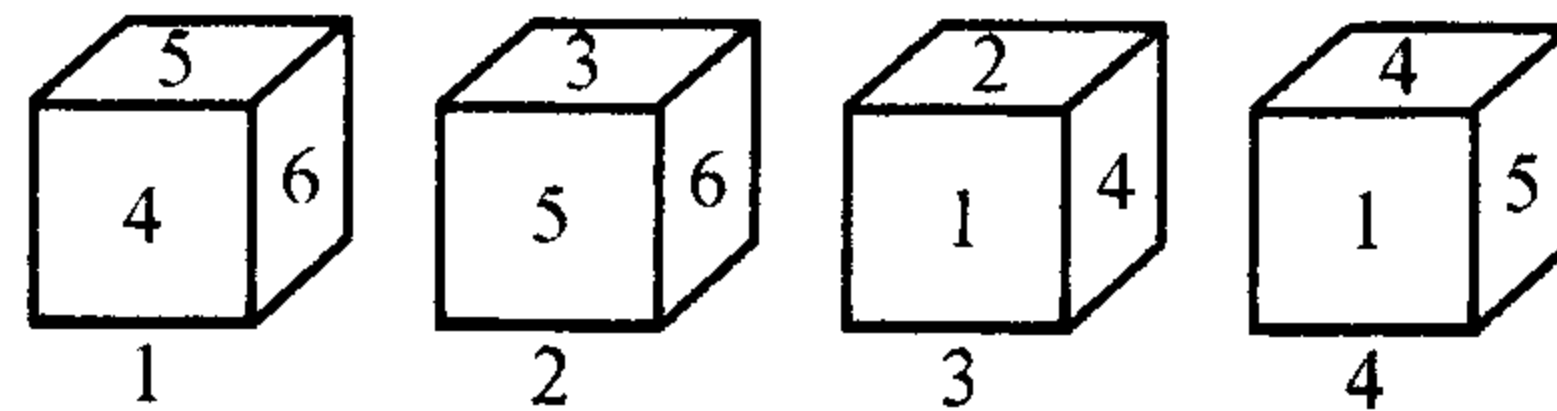
98. The missing number in the following figure is :

1	3	7
5	12	14
25	?	28
125	192	56

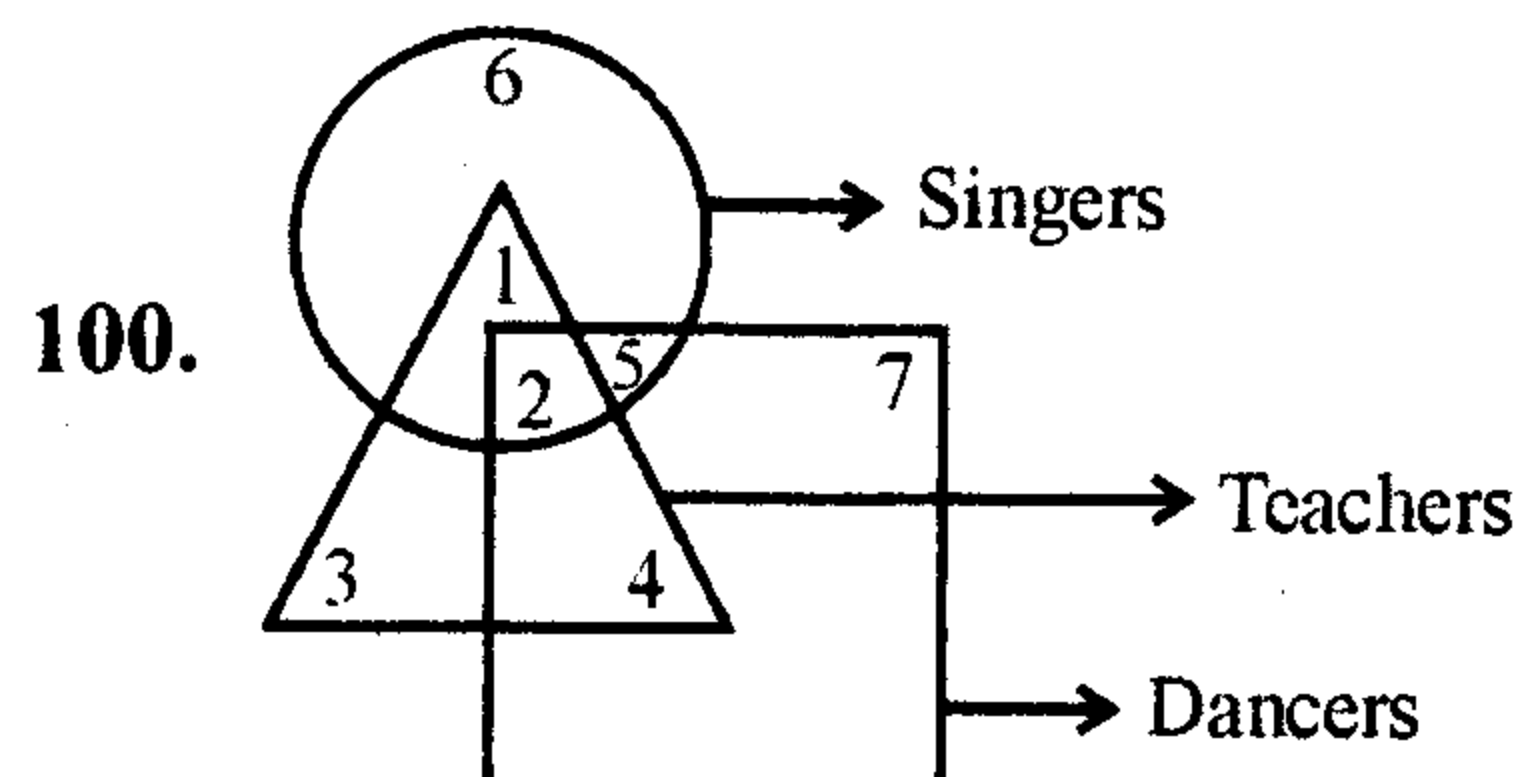
- (1) 38                      (2) 42  
(3) 48                      (4) 56

99. Various faces of a cube are shown. Study them and answer the questions by finding the correct alternative from the choices.

Which number is on the face opposite to 3 ?



- (1) 4  
(2) 3  
(3) 2  
(4) 1



Which number space represents singers who are dancers but not teachers ?

- (1) 1  
(2) 4  
(3) 5  
(4) 7

Space For Rough Work