UGC (NET) Examination Paper December, 2003*

Directions (Qs. 1 to 4) : *Find out the missing term in the given series.*

1. 462, 420, 380, ?, 306
   - A. 322
   - B. 332
   - C. 342
   - D. 352

2. 5, 6, 9, 15, ?, 40
   - A. 21
   - B. 25
   - C. 27
   - D. 33

3. BXJ, ETL, HPN, KLP, ?
   - A. NHR
   - B. MHQ
   - C. MIP
   - D. NIR

4. DEF, HIJ, MNO, ?
   - A. STU
   - B. RST
   - C. RTV
   - D. SRQ

5. If $53 \div 31 = 2$, $45 \div 27 = 1$, $69 \div 32 = 3$ then $97 \div 26 = ?$
   - A. 1
   - B. 2
   - C. 3
   - D. 4

6. If $5 \times 6 = 42$, $2 \times 8 = 27$, $4 \times 9 = 50$ then $7 \times 10 = ?$
   - A. 9
   - B. 7
   - C. 8
   - D. 15

7. If CGP is coded as BHO. What will be the code for FUN?
   - A. ETM
   - B. EVM
   - C. EUM
   - D. MEV

8. If TEACHING is coded as CHEATING, what will be the code for GRADIENT?
   - A. DIERATING
   - B. RGDIEANT
   - C. RADIGENT
   - D. DIRAGENT

9. If HONESTY is coded as 2304516. What will be the code for NEHSOYT?
   - A. 0425631
   - B. 0423561
   - C. 0452631
   - D. 0425361

10. If Z = 52, ACT = 48 then BAT = ?
    - A. 39
    - B. 41
    - C. 44
    - D. 46

11. If blue is called red, red is called white, white is called sky, sky is called rain, rain is called green, green is called air and air is called table then colour of milk is
    - A. White
    - B. Sky
    - C. Green
    - D. Red

12. Pointing to a man a lady said, "He is the only uncle of the son of the father's Son." How is man related to that lady?
    - A. Brother
    - B. Husband
    - C. Maternal Uncle
    - D. Son

13. A, C, H and D are students of Arts subjects and B, C, E and F are students of Science subject in a college. Four students are to be selected from among them to represent the college in an oratorial competition, under the following conditions

    1   No two students should be from the same subject.

    2   At least two students should be from Arts subject.

    A and G study History, C and F are from Botany Group.

    Which of the following group can be selected for competition ?
    - A. ACHF
    - B. BGFH
    - C. DBEF
    - D. GFAD

14. Gaurav went 21 km to the North, then turning to right he went 17 km and then he turns to right again and went 10 km. In which direction is he now from his starting point?
    - A. East
    - B. North-East
    - C. South-East
    - D. West

15. If east becomes South-West and West becomes north-east. Then what will be the direction for west.
    - A. North
    - B. North-West
    - C. North-East
    - D. South-East

16. If in a mirror a clock shows the time as 11.20, then what is the real time?
    - A. 12.40
    - B. 11.20
    - C. 8.50
    - D. 10.30

17. I am facing South. Which of the following sequence of turnings will lead me to face same direction?
    - A. Left, Right, Left, Right, Left, Left, Right, Right
    - B. Left, Left, Right, Right, Right, Left, Left, Right
    - C. Right, Left, Right, Left, Right, Right, Right, Left

D. Right, Right, Left, Left, Left, Right, Right, Right

18. NATURALIZATION
    A. TURN   B. NATION
    C. NATURAL   D. RURAL

19. Satish remembers that his brother's birthday is after 15th February but before 18th February. While his sister Kajal remembers that her brother's birthday is after 16th February but before 19th February. When is the brother's birthday?
    A. 16th February   B. 17th February
    C. 18th February   D. 19th February

20. If 3rd January is Sunday, what date will be three days after the fourth Wednesday in the month?
    A. 30   B. 27
    C. 26   D. 23

21. If x = −, ÷ = +, + = ÷ and − = × then which one of the following equations is correct?
    A. 3 ÷ 7 − 5 × 10 + 3 = 10
    B. 6 × 2 + 3 ÷ 12 − 3 = 15
    C. 8 ÷ 10 − 3 + 5 × 6 = 8
    D. 15 − 5 ÷ 5 × 20 + 10 = 6

22. If S = ×, T = +, L = − and M = ÷ then
    7 S 3 T 9 L 12 M 3
    A. 80   B. 56
    C. 26   D. 17

23. If mother's age is 5 times the son's age. One year ago her husband's age 6 times the son's age. If present age of mother is 35 years then find the age of her husband?
    A. 35   B. 36
    C. 37   D. 38

24. To maintain law and order in India. Police workee under highly pressure and tension.
    Assumptions:
    I. The police of other countries, worked without any interferences.
    II. We expect that functions of police should be free from any interferences.

25. The new education policy envisages major modification in the educational system.
    Assumptions:
    I. The present education system needs improvement
    II. The present education system is inconsistent with the national needs.

26. **Statements :**
    1. Those who are honest are good teachers.
    2. Hard working people are honest
    Inference : Hard work is the necessary quality of a good teacher.

27. **Statements :**
    1. All staffs wear caps.
    2. All caps are red.
    Inference : All staffs wear red caps.

28. **Statements :**
    All birds are black.
    No black is white.
    Conclusion :
    I. No bird is white.
    II. Some birds are not black.
    A. If only conclusion I follows.
    B. If only conclusion II follows.
    C. If both I and II follows.
    D. If neither I nor II follows

29. **Statements :**
    Some intelligent people are authors.
    Raman is intelligent
    Conclusion :
    I. Some authors are intelligent.
    II. Raman is a author.
    A. If only conclusion I follows.
    B. If only conclusion II follows.
    C. If both I and II follows.
   D. If neither I nor II follows.

30. As a teacher, what will you do if students do not attend your class?
    A. Blame students for their absence from the class.
    B. Ponder over the present attitude of students in a calm manner.

C. Think about using some interesting techniques of teaching.

D. Try to understand the reasons and try to eliminate them.

31. There will be better communication in a lecture if a teacher
   A. reads from prepared notes
   B. prepares the notes well in advance and use them as a guide
   C. talks extempore
   D. talks extempore drawing examples from other disciplines

32. Teachers who are enthusiastic in the class-room teaching
   A. often lack proficiency in the subjects which stays hidden under their enthusiasm
   B. Simply dramatize to hold the student's attention
   C. involve their students in the teaching-learning process
   D. all of the above

33. One can be a good teacher, if he/she
   A. has genuine interest in teaching
   B. knows how to control students
   C. knows his/her subject
   D. has good expression

34. The most important skill of teaching is
   A. making students understand what the teacher says
   B. covering the course prescribed in his subject
   C. keeping students relaxed while teaching
   D. taking classes regularly

35. Effective teaching, by and large, is a function of
   A. Maintaining discipline in the class
   B. Teacher's honesty
   C. Teacher's making students learn and understand
   D. Teacher's liking for the job of teaching

36. The first question that a researcher interested in the application for statistical techniques to his problem has to ask is
   A. Whether the data could be quantified
   B. Whether appropriate statistical techniques are available
   C. Whether analysis of data would be possible
   D. Whether worth while inferences could be drawn

37. If a researcher takes entire community as a unit in his study then this type of method is called.
   A. individual study
   B. individual study of community
   C. individual study of town
   D. individual study of village

38. Main feature of research planning is
   A. determination of problems
   B. determination of theory
   C. determination of targets
   D. follows the inference

39. Two way communication becomes effective
   A. never   B. always
   C. rarely   D. none of these

40. An effective communication does not require
   A. Change in speech pattern
   B. appropriate gestures
   C. mastery of content
   D. handsome personality

Directions (41-42) : *The annual income of a cloth factory is depicted below in a diagram. Study it and answer the questions.*

41. The diagram shows that
   A. Company received highest revenue in 1990
   B. Company's income has increased very fast in 1970-80 as compared to the preceding decade
   C. After 1960 the number of company's sales is increasing
   D. There was a decline in 1960

42. Approximately what was the average annual income of the company from 1960 to 1980?
   A. Rs. 20,00,000   B. Rs. 25,00,000
   C. Rs. 30,00,000   D. Rs. 40,00,000

Directions (43-44) : *Population growth in India is shown through a bar diagram. Study it and answer the given questions.*

Years
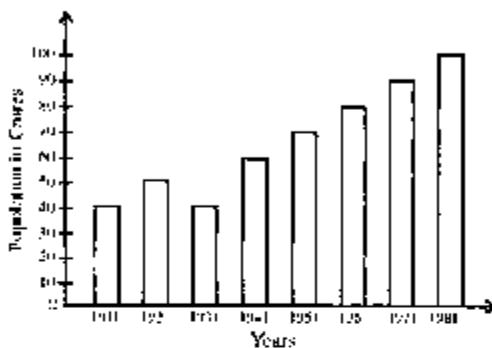
43. In which year maximum population occurs?

    A. 1911   B. 1931

    C. 1961   D. 1981

44. Which of the following conclusions is not true?

    A. Average annual increase of India's population is about one crore

    B. Population of India in 1990 is expected to rise by 10% or more

    C. Population in India in 1901 must have been less than 25 crores

    D. Growth rate of population from 1951 to 1961 is maximum

Directions (45-47) : *Read the following passage carefully and choose the most suitable answer from the four alternatives given below each question.*

Graduation is only a milestone in life's journey. It does not mark the end of the education road. In a very real sense it is the commencement time, the beginning of a new journey which will test the toughness of your mental and moral fibre, the efficiency of your university training. The men experiences, the new problems and the new situations will demand from you the exercise of qualities for the fostering of which the university functions. In a new and independent India the future will give powers and responsibilities to you. The historic role of the large educated classes in the building up of free India can not be over estimated. If a leader is one who knows where he is going, who has a firm grasp of the insights and institutions which have made our civilization so enduring and who can harness them for every aspect of life, it is only the university that can train men for leadership. The universities are more than institutions for higher learning and professional training, they are called upon to educate, younger generation, from character and create new type of intellectual leadership.

45. The suitable title for the above passage is

    A. Becoming a graduate

    B. Graduation

    C. University education

    D. Intellectual leadership

46. Graduation is

    A. Only a stage in life's journey

    B. A degree

    C. The end of education

    D. In reality only a beginning of a new journey

47. Toughness of your mental and moral fibre means

    A. Strength of your mental and moral qualities

    B. Greatness of intellect and morality

    C. The powers that an educated person possesses

    D. Qualities of the mind and character

Directions (48-50) : *Read the following text and answer the questions based on it.*

Burglary was only a side occupation for Mari. He was the locksmith, umbrella repairer and blacksmith of Sukkur village, which was a couple of miles from the other bank of the river. He was a burglar for various reasons down to him by his ancestors, which made him love the excitement of breaking into a house; he also valued the profits of the adventure, and he did it to please his wife. He was intensely devoted to her, and her one ambition in life was to fill a small brass pot with coins and precious metal and bury it at the root of a coconut tree which shot up from the backyard of their little home. Tinkering at iron things gave one a steady income but a small one; and if you put up your rates you might drive your customers to the next village, if you didn't put up your rates you had an inadequate income—which made a wife unhappy and quarrel some. Mari cared a great deal for his wife, although he chased her about and threw things at her when he was drunk.

48. Which of the following expressions from the text suggests that the man likes his work?

    A. Excitement   B. Ambition

    C. Side occupation   D. Steady income

49. Mari's wife's main desire was

    A. to buy a new house

    B. to fill a brass pot with coins

    C. to live in another village

    D. to make Mari give up drinking

50. The writer says that Mari belongs to a family.....

    A. that was respectable

    B. who were also burglars

    C. made a good name for themselves

    D. followed the locksmith's trade

ANSWERS

1	2	3	4	5	6	7	8	9	10
C	B	A	A	B	C	B	D	D	D
11	**12**	**13**	**14**	**15**	**16**	**17**	**18**	**19**	**20**
B	B	B	B	C	A	A	D	B	A
21	**22**	**23**	**24**	**25**	**26**	**27**	**28**	**29**	**30**
C	C	C	D	A	C	A	A	A	D
31	**32**	**33**	**34**	**35**	**36**	**37**	**38**	**39**	**40**
D	C	C	A	C	A	B	B	D	D
41	**42**	**43**	**44**	**45**	**46**	**47**	**48**	**49**	**50**
B	B	D	B	C	D	A	A	B	B

SOME SELECTED EXPLANATORY ANSWERS

1. 462 420 380 $\boxed{342}$ 306

2. 5 6 9 15 $\boxed{25}$ 40
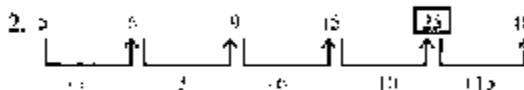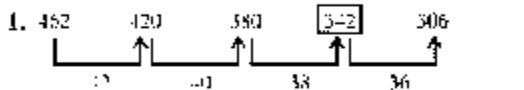
**5.** $\dfrac{5+3}{3+1} = \dfrac{8}{4} = 2$, $\dfrac{4+5}{2+7} = \dfrac{9}{9} = 1$

$\dfrac{6+9}{3+2} = \dfrac{15}{5} = 3$, $\dfrac{9+7}{2+6} = \dfrac{16}{8} = \boxed{2}$

6. $5 \times 6 = 30 - (5 - 6 + 1) = 42$
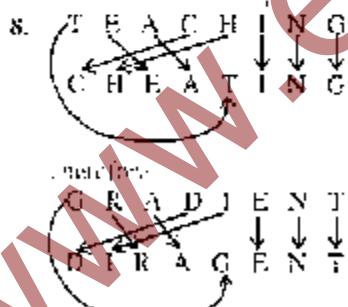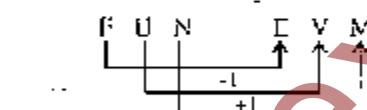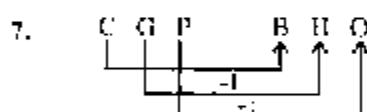
$2 \times 8 = 16 - (2 + 8 + 1) = 27$

$4 \times 9 = 36 - (4 + 9 + 1) = 50$

$\therefore 7 \times 0 = 0 + (7 + 0 - 1) = \boxed{8}$

7. C G P   B H O

F U N   E V M

8. TEACHING → CHEATING

therefore: GRADIENT → DIRAGENT

9.

H	O	N	E	S	T	Y
2	3	0	4	5	1	6

$\therefore$

N	E	H	S	O	Y	T
0	4	2	5	3	6	1

10. Since $A = 2, B = 4, C = 6 \ldots Z = 52$

$\therefore ACT = 2 + 6 + 40 = 48$

and $BAT = 4 + 2 + 40 = 46$

14.

15.
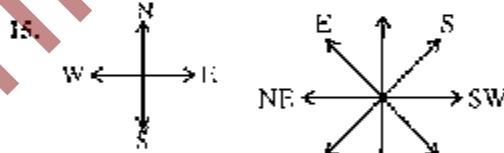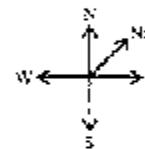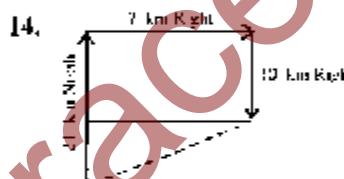
20.

3 Jan	=	Sunday
4 Jan	=	Monday
5 Jan	=	Tuesday
6 Jan	=	Wednesday (First)
13 Jan	=	Wednesday (Second)
20 Jan	=	Wednesday (Third)
27 Jan	=	Wednesday (Fourth)

$\therefore$ Date of three days after the fourth Wednesday will be 30

21. $8 + 10 \times 3 \div 5 - 6 = 8$

$\Rightarrow 8 + 10 \times \dfrac{3}{5} - 6 = 8$

$\Rightarrow$ $\qquad$ $8 + 6 - 6 = 8$

$\Rightarrow$ $\qquad\qquad$ $8 = 8$

22. $7 \times 3 + 9 - 12 \div 3$

$= 7 \times 3 + 9 - 4$

$= 21 + 9 - 4 = 26$

23. Mother's age = 35 years

then Son's age = 7 years

$\therefore$ One year ago the husband's age = 6×6

$= 36$ year

$\therefore$ the present age of husband = 37 years

28.

29.

———————