

ICET Model Question Paper 2013

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SECTION A

Analytical Ability

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(1) Data Sufficiency

In each of the questions numbered 1 and 2, the question is followed by data in the form of two statements labeled as i and ii. You must decide whether the data given in the statements are sufficient to answer the questions. Using the data, make an appropriate choice form (1) to (4) as per the following guidelines.

- (1) If the statement i alone is sufficient to answer the question;
- (2) If the statement ii alone is sufficient to answer the question;
- (3) If both the statements i and ii are sufficient to answer the question but neither statement alone is sufficient.
- (4) If both the statements i and ii together and not sufficient to answer the question and additional data is required.

1. What is the value of the non-negative integer x ?

- (i) $2x$ is odd (ii) $3x$ is odd

2. What is the length of the train?

- (i) It crosses a pole in 8 seconds. (ii) It crosses a bridge of length 100 m in 12 seconds.

(2) Problem solving

a) Sequence and Series

Note: In each of the questions numbered 3 and 4, a sequence of numbers or letters that follow a definite pattern is given. Each question has a blank space. This has to be filled with the correct

answer chosen from the given four options to complete the sequence without breaking the pattern.

3. AZBY, CXDW GTHS

(1) EXUV (2) EVFU (3) EVRU (4) EVSU

4. 9, 19, 40,, 146

(1) 70 (2) 59 (3) 69 (4) 64

Note: In questions 5 and 6 pick the odd thing out

5. (1) 65 (2) 126 (3) 217 (4) 343

6. (1) BFH (2) MQS (4) GJL (4) NRT

b) Data Analysis

Note: The following figure has four intersecting circles, each representing a group of persons having the quality written against it. Study the figure carefully and answer questions 7 and 8

img7. The region which represents people who are not honest but possess all other three qualities, as denoted by

(1) B (2) F (3) D (4) M

8. The region which represents the people who are neither honest nor truthful but are intelligent and hard working, is denoted by

(1) A (2) C (3) D (4) B

c) Coding and Decoding Problems:

In a code TANK is written as SZOL and FRIEND is written as EQHFOE. Find the process of coding and answer the question 9.

9. The code for ZENITH is

(1) YDMJUI (2) ADMJUI (3) YFMJUI (4) ADMJUG

d) Date, Time & Arrangement Problems:

10. In a row of six persons, D and C are immediate neighbours of E. B is a neighbour of A only. A is the fourth from F. Who are on the two end points?

(1) F, B (2) F, C (3) B, D (4) C, A

Mathematical Ability

I Arithmetical Ability:

1. A wire of length 132 cm is bent to form a rectangle whose sides are in the ratio 7:4. The area (in square cms) of the rectangle is

(1) 4032 (2) 4230 (3) 100 (4) 3420

2. The ratio of the area of square of side 'a' to the area of an equilateral triangle of side 'a' is

(1) 4: 3 (2) 2: 3 (3) 3 :2 (4) 3 :4

3. If in a group of people, m persons can speak Telugu, n persons can speak Tamil and t persons can speak both Tamil and Telugu, then, the number of persons who can speak either Telugu or

Tamil is

(1) $m-n+1$ (2) $m-n-t$ (3) $m+n-1$ (4) $n-m+t$

4. If $a:b = 1:3$ and $b:c = 2:5$, then, $a:b:c =$

(1) 1:3:5 (2) 1:6:5 (3) 2:6:15 (4) 6:2:15

II Algebraical and Geometrical Ability

5. If one root of the equation $ax^2 + bx + c = 0$ is double the other root, then

(1) $b^2 = 9ac$ (2) $2b^2 = 3abc$ (3) $b = 2a$ (4) $2b^2 = 9ac$

6. Equation of the line passing through the point (2, -3) and perpendicular to the line segment joining the points (1, 2) (-1, 5) is

7. If (0, 0), (2, 2) and (0, a) form a right angled isosceles triangle, then a =

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

III Statistical Ability:

8. The mean deviation of the values 21, 23, 25, 28, 30, 32, 38, 39, 46, 48 from the mean is

(1) 7.6 (2) 6.7 (3) 7.8 (4) 8.7

9. Eight coins are tossed simultaneously. The probability of getting at least six heads is

(1) $\frac{39}{256}$ (2) $\frac{29}{256}$ (3) $\frac{31}{256}$ (4) $\frac{37}{256}$

10. If the standard deviation of a_1, a_2, \dots, a_n is s, then, the standard deviation of $a_1 + b, a_2 + b, \dots, a_n + b$ is

(1) $s + b$ (2) $s - b$ (3) s (4) sb

SECTION – C

Communication Ability

Part – 1: Vocabulary

Choose the correct meaning for the word:

1. Alleviation

(1) Decoration (2) Exaggeration (3) Mitigation (4) Aggravation

Fill in the blank choosing the correct word:

2. The old lady is an Story-teller

(1) adept (2) adopt (3) adapt (4) adrift

Part – 2: Business and Computer Terminology

Choose the correct answer:

3. An Actuary is

(1) One who presents himself

(2) One who project himself

(3) One who works in a sanctuary

(4) One who makes calculations connected with insurance

Part – 3: Functional Grammar

Choose the correct answer:

4. A : Would you mind lending your umbrella?

B : Yes, I do.

In this conversation

(1) B is willing to lend it to A (2) B excuses himself

(3) B is hesitant (4) B is annoyed by the request

5. "If wishes were horses, beggars would ride". This sentence

(1) speaks of an utter impossibility

(2) expresses a condition

(3) implies a difficult possibility

(4) states an absurdity

Fill in the blank with the appropriate phrase/verb/ preposition

6. We had a pleasant conversation a cup of tea.

(1) with (2) on (3) over (4) during

7. Some bottles are not suitable Recycling.

(1) for (2) with (3) to (4) in

(1) $2x-3y-13 = 0$ (2) $2x-3y-9 = 0$

(3) $2x-3y-11 = 0$ (4) $2x-3y-7 = 0$

8. Why do we enjoy films in which there are larger-than-life characters?

(1) We don't like films to be true to life

(2) We like the big screen.

(3) Art is not for art's sake

(4) They enable us to compensate ourselves for our shortcomings.

9. Why do we enjoy films based on crime and violence?

(1) Human beings admire criminals.

(2) They provide for us with some relief from the boredom of routine life

(3) Crime and violence have become part of our life.

(4) All human beings are sadists.

10. What aspect of human psychology the author does refer to in the second paragraph?

(1) Human beings enjoy the very sight of qualities and luxuries they are deprived of.

(2) Human psychology is very complex.

(3) Human beings love being poor.

(4) Human beings admire themselves.