

# GateAssignment7

1

EE24BTECH11048-NITHIN.K

1 Q.1 - Q.5 CARRY ONE MARK EACH

- 1) It is a common criticism that most of the academicians live in their \_\_\_\_\_, so they are not aware of the real life challenges.
  - a) homes
  - b) ivory towers
  - c) glass palaces
  - d) big flats
- 2) His hunger for reading is insatiable. He reads indiscriminately, He is most certainly a/an \_\_\_\_\_ reader.
  - a) all-round
  - b) precocious
  - c) voracious
  - d) wise
- 3) Select the word that fits the analogy:  
Fuse : Fusion :: Use : \_\_\_\_\_
  - a) all-round
  - b) precocious
  - c) voracious
  - d) wise
- 4) If 0, 1, 2, ..., 7, 8, 9 are coded as O, P, Q,..., V, W, X, then 45 will be coded as \_\_\_\_\_
  - a) TS
  - b) ST
  - c) SS
  - d) SU
- 5) The sum of two positive numbers is 100. After subtracting 5 from each number, the product of the resulting numbers is 0. One of the original numbers is \_\_\_\_\_.
  - a) 80
  - b) 85
  - c) 90
  - d) 95

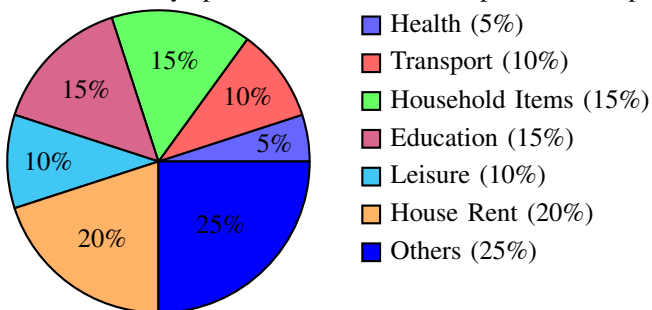
2 Q6 - Q10 CARRY TWO MARKS EACH.

- 6) The American psychologist Howard Gardner expounds that human intelligence can be sub-categorised into multiple kinds, in such a way that individuals differ with respect to their relative competence in each kind. Based on this theory, modern educationists

insist on prescribing multi-dimensional curriculum and evaluation parameters that enable development and assessment of multiple intelligences.

Which of the following statements can be inferred from the given text?

- Howard Gardner insists that the teaching curriculum and evaluation needs to be multi-dimensional.
  - Howard Gardner wants to develop and assess the theory of multiple intelligences.
  - Modern educationists want to develop and assess the theory of multiple intelligences.
  - Modern educationists insist that the teaching curriculum and evaluation needs to be multi-dimensional.
- 7) Five friends P, Q, R, S and T went camping. At night, they had to sleep in a row inside the tent. P, Q and T refused to sleep next to R since he snored loudly. P and S wanted to avoid Q as he usually hugged people in sleep. Assuming everyone was satisfied with the sleeping arrangements, what is the order in which they slept?
- RSPTQ
  - SPRTQ
  - QRSPT
  - QTSPR
- 8) Insert seven numbers between 2 and 34, such that the resulting sequence including 2 and 34 is an arithmetic progression. The sum of these inserted seven numbers is \_\_\_\_\_.
- 120
  - 124
  - 126
  - 130
- 9) The unit's place in  $26591749^{110016}$  is \_\_\_\_\_.
- 1
  - 3
  - 6
  - 9
- 10) The total expenditure of a family, on different activities in a month, is shown in the pie-chart, The extra money spent on education as compared to transport (in percent)



is \_\_\_\_\_

- a) 5
- b) 33.3
- c) 50
- d) 100

3 Q1 - Q25 CARRYONE MARK EACH.

- 11) In the following partial differential equation,  $\theta$  is a function of  $t$  and  $z$ , and  $D$  and  $K$  are functions of  $\theta$

$$D(\theta) \frac{\partial^2 \theta}{\partial z^2} + \frac{\partial K(\theta)}{\partial z} - \frac{\partial \theta}{\partial t} = 0$$

The above equation is

- a) a second order linear equation
  - b) a second degree linear equation
  - c) a second order non-linear equation
  - d) a second degree non-linear equation
- 12) The value of  $\lim_{x \rightarrow \infty} \frac{x^2 - 5x + 4}{4x^2 + 2x}$  is
- a) 0
  - b)  $\frac{1}{4}$
  - c)  $\frac{1}{2}$
  - d) 1
- 13) The true value of  $\ln(2)$  is 0.69. If the value of  $\ln(2)$  is obtained by linear interpolation between  $\ln(1)$  and  $\ln(6)$ , the percentage of absolute error (round off to the nearest integer), is
- a) 35
  - b) 48
  - c) 69
  - d) 84