

Primary Education Completion Examination– 2014

Model Test– 4

Subject: Mathematics

Time: 2 hours 30 minutes

Total marks: 100

[N.B: Figures in the right side indicate full marks of the questions. Answer any 10 including questions No. 1,2,3,5 and 13]

1. Write down the correct answer in your answer script: $1 \times 10 = 10$

- i. $84 \div 8 \square 5$ (what value we put in the blank space so that the quotient is less than 10 and remainder is 69?
a) 1 b) 2 c) 50 taka d) 60 taka
- ii. What is the average of 10, 11, 12, 13, 14?
a) 10 b) 11 c) 12 d) 13
- iii. $(x+6) \div 3 = 12$, what is the value of x?
a) 6 b) 12 c) 18 d) 30
- iv. Which fraction is greater?
a) $\frac{3}{4}$ b) $\frac{3}{5}$ c) $\frac{3}{6}$ d) $\frac{3}{8}$
- v. $0.1 \times 0.1 \times 0.1 =$ what?
a) 1 b) 0.01 c) 0.001 d) 0.0001
- vi. What is called the amount which we deposit in bank?
a) Interest b) Rate of interest
c) Principal d) Time
- vii. 1 metric ton = How many quintal?
a) 10 b) 100 c) 1000 d) 10000
- viii. How many days are there in the month of February in 2014?
a) 28 days b) 29 days c) 30 days d) 31 days
- ix. What is the position of Bangladesh in terms of area?
a) Ninety b) 19th c) 90th d) 190th
- x. What is the sum of the four angles of a quadrilateral?
a) 90° b) 180° c) 270° d) 360°

2. Answer in short:

1×10=10

- a) Write the formula of calculating dividend in case of division with remainder?
- b) If 1 dozen banana's price 30 taka, what is the price of 3 dozen's banana?
- c) What is the opposite name of Multiplier?
- d) $3 \times x < 20$ here what is the value of x?
- e) Fraction x he apposite of the fraction = what?
- f) 8% of 25 taka = what?
- g) If one arm of a square is 5 meter, find the area?
- h) According to Bangla practice, when day and date begins?
- i) What is called the rectangle whose two adjacent sides are equal?
- j) What is called the present age?

3. 30 persons can complete a piece of work in 18 days, the work is to be completed in 12 days.

2×5=10

- a) How many days equal one month?
- b) In how many days the work will be completed by one person?
- c) How many persons will be needed to complete the work within one day?
- d) How many person will be needed to complete the work within 12 days?
- e) How many days will be needed to complete the work by 5 persons?

4. A certain quantity of food can be consumed by 200 persons in 20 days. How many persons will consume that food in 40 days?

10

5. The heights of Koli, Dolly, Poly, Molly and Lily are respectively 123 cm, 131 cm, 135cm, 126 and 130 cm.

2×5=10

- a) What is the formula to find the sum of the quantities?
- b) What was their total heights?
- c) What is the average height of each of them?
- d) What is the total height of Koli and Dolly?
- e) If the younger sister of Lily, Jolly's height 120 cm the find their total height of 6 persons?

6. The length of a rectangular hall is 12 metre and base is 7 metre. What is the largest size of tiles of square shape which can be used to pave the floor of the room so that no tiles need to be broken? 10
7. Mr. Kamal spends $\frac{1}{5}$ portion of his monthly income on house rent, $\frac{3}{8}$ portion of an educational expenses for his children and $\frac{3}{10}$ Portion for other Purposes The remaining money he deposits in a bank deposit amounted to 14400 taka. What is his monthly income? 10
8. 1 metre equals 2.54 centimetre; how many centimetres are there in 8.5 metres? 10
9. The population of Alipur village is 1800. 45% of the people of the village is educated. What is the number of educated persons in Alipur? 10
10. The measures of the base and height of a triangular land are 560 metre and 300 metre respectively. Express its area in hectares. 10
11. How many years, months, days and hours are there in 87450 minutes? 10
12. The marks obtained by 20 students in mathematics are given below:
Classify the data. 10
75, 63, 75, 75, 71, 75, 63, 72, 72, 69, 72, 70, 61, 75, 60, 71, 69, 63, 65, 69
13. a) Draw a quadrilateral and measure the four angles and find the sum of their measures. 4
b) Write the definitions with figure (any two): $3 \times 2 = 6$
Rectangle, Arc, Radius