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First Year (F.Y.B.Com)
MTA11304: Quantitative Aptitude
(Semester I)

Program: B.Com
Program Specific: Mathematics
Course Type: Open Elective
SET: A

Credits: 2
Time: 2 Hours
Max. Marks: 30

Instructions to the candidate:
All questions are compulsory.

Q.1) Choose the correct Alternative:

10X1= 10 Marks

- 1) The value of $\sqrt{1\frac{9}{16}}$ is
a) $\frac{5}{4}$ b) $\frac{4}{3}$ c) $\frac{4}{5}$ d) $\frac{3}{4}$
- 2) $\sqrt{6084} = ?$
a) 100 b) 150 c) 78 d) 80
- 3) Find *selling price* when cost price is Rs. 56.25 and *Gain* = 20%.
a) 167.50 b) 68.50 c) 68.34 d) 67.34
- 4) If $A : B = 3 : 4$ and $B : C = 8 : 9$ then find $A : C$?
a) 1:3 b) 3:2 c) 2:3 d) 15:4
- 5) A man buys an article for 27.50 and sells it for 28.60. Find his gain percent?
a) 4% b) 7% c) 3% d) 2%
- 6) The roots of the $x^2 + 5x - 6 = 0$ equation are
a) 6, -1 b) 6, 1 c) -6, -1 d) -6, 1
- 7) Three numbers are in ratio 4 : 5 : 6 and their average is 25. The largest no is
a) 30 b) 32 c) 36 d) 42
- 8) What is the unit digit in 7^{105} ?
a) 1 b) 5 c) 7 d) 9
- 9) The difference between the place value and the face value of 6 in the number 8569 is

- a) 53 b) 6 c) 54 d) 60

10) $28 \% 450 = \underline{\hspace{2cm}}$

- a) 130 b) 160 c) 126 d) 90

Section B

Q.2) Choose the correct Alternative: 10x2= 20 Marks

- 1) If $a * b * c = \sqrt{\frac{(a+2)(b+3)}{c+1}}$, then find the value of $6 * 15 * 3$ is
- a) 4 b) 3 c) 5 d) 1
- 2) $(\sqrt{2} + \frac{1}{\sqrt{2}})^2$ is equal to
- a) $2\frac{1}{2}$ b) $3\frac{1}{2}$ c) $4\frac{1}{2}$ d) $5\frac{1}{2}$
- 3) The ratio of three numbers is 3 : 4 : 5 and the sum of their squares is 1250. The sum of numbers is.....
- a) 30 b) 60 c) 50 d) 90
- 4) Find the simple interest on Rs. 66,000 at rate $6\frac{2}{3}\%$ per annum for 1 year?
- a) 4000 b) 4500 c) 4400 d) 5000
- 5) A sum of Rs. 800 amounts to Rs. 920 in 3 years at simple interest. If the interest rate is increased by 3% , then it would amount to how much ?
- a) 1000 b) 992 c) 990 d) 900
- 6) Which of the following number is prime?
- a) 91 b) 69 c) 42 d) 24
- 7) Which of the following number is such that when 15 is subtracted from 7 times the number, the result is 10 more than the number.
- a) 5 b) 10 c) 4 d) 6
- 8) The father is twice as old as his daughter. If 20 years ago ,the age of father was 10 times the age of the daughter . What is the present age of the father ?
- a) 40 b) 32 c) 33 d) 45

9) $(2 + 2) \div 2 \times 2 = ?$

- a) 3 b) 0 c) 4 d) 1

10) 2 is what percent of 50?

- a) 0.3 b) 0.6 c) 0.4 d) 0.2

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