

PART C — (3 × 10 = 30 marks)

Answer any THREE questions.

16. (a) Convert 500 cm into 'm'.
(b) Convert 4 km 475 m into 'm'.
(c) Convert 3 feet to centimeter.
(d) Convert 37°C to Fahrenheit.
17. The population of a town is 8,000. it increases by 10% during first year and by 20% during second year. Find the population after 2 years.
18. Restaurant ABC's sales for the Month Jan 2016 is Rs. 5,50,000/-. The opening stock value on 1st Jan 16 is Rs. 50,000/-. The restaurant made a purchase of Rs. 1,25,000/- for the month. The value of closing stock is Rs. 25,000/-. Calculate the food cost percentage for the month.
19. (a) Find the simple interest on Rs. 68,000 at $16\frac{2}{3}\%$ per annum for 9 months.
(b) At what rate percent will be Rs. 625 amount to Rs. 700 in 4 years.
20. Draw a pie diagram for the following data.
- | Items: | Rent | Light | Clothing | Tax | Fuel |
|-------------------------|------|-------|----------|-----|------|
| Expenditure
(in Rs.) | 70.8 | 41.2 | 28.5 | 7.6 | 4.8 |

S.No. 1925

12UHMS01

(For the candidates admitted from 2012-2013 onwards)

B.Sc. DEGREE EXAMINATION, NOVEMBER 2017.

Third Semester

Hotel Management and Catering Science

SBEC – HOSPITALITY MATHEMATICS

Time : Three hours

Maximum : 75 marks

PART A — (10 × 2 = 20 marks)

Answer ALL questions.

1. Convert
(a) 22 m 50 cm into cm
(b) 3000 ml into litre.
2. The sum of two numbers is 3527, if one of the number is 2685. Find the other number?
3. Find 28% of 450.
4. Define cost sheet.

5. If $a : b = 3 : 4$ and $b : c = 5 : 6$ Find $a : c$.
6. Define food cost and food cost percentage.
7. Find the area of a rectangle whose length is 8 cm and breadth 5 cm.
8. Find area of a square one of whose diagonal is 2.6 cm.
9. Explain Bar diagram.
10. Explain Pie diagram.

PART B — (5 × 5 = 25 marks)

Answer ALL questions, choosing either (a) or (b).

11. (a) (i) Find the sum of two number 28760 and 38530.
 (ii) Find $1424 \div 4$.
 (iii) Find the value $\frac{5}{7} \times \frac{2}{3}$.

Or

- (b) (i) Convert 5 l 50 ml into millilitres.
 (ii) Convert 4kg 350 gram into gram.

12. (a) Write the preparation of cost sheet for receipes.

Or

- (b) 1100 boys and 700 girls are examined in a test. 42% of the boys and 30% of the girls pass. Find the total no. students passed.

13. (a) Explain (i) Labour cost (ii) Food cost (iii) overhead cost.

Or

- (b) Two number are in the ratio 3 : 4. If 6 be added to each term of the ratio then the new ratio will be 4 : 5. Find the numbers.

14. (a) Find simple interest on Rs. 9,000 at 5% per annum for 4 years.

Or

- (b) Find the compound interest on Rs. 7,200 for 2 years at $4\frac{1}{2}\%$ per annum.

15. (a) Write difference between graphs and diagrams.

Or

- (b) Draw a bar diagram for the following data.

Year:	2002	2003	2004	2005	2006
Profit:	15,000	18,000	20,000	16,000	13,000