



ZIAUDDIN UNIVERSITY
EXAMINATION BOARD

**RESOURCES FOR
“HSC-I BUSINESS
MATHEMATICS”**

ZUEB EXAMINATIONS 2021



PREFACE:

The ZUEB examination board acknowledges the serious problems encountered by the schools and colleges in smooth execution of the teaching and learning processes due to sudden and prolonged school closures during the covid-19 spread. The board also recognizes the health, psychological and financial issues encountered by students due to the spread of covid-19.

Considering all these problems and issues the ZUEB Board has developed these resources based on the condensed syllabus 2021 to facilitate students in learning the content through quality resource materials.

The schools and students could download these materials from www.zueb.pk to prepare their students for the high quality and standardized ZUEB examinations 2021.

The materials consist of examination syllabus with specific students learning outcomes per topic, Multiple Choice Questions (MCQs) to assess different thinking levels, Constructed Response Questions (CRQs) with possible answers, Extended Response Questions (ERQs) with possible answers and learning materials.

ACADEMIC UNIT ZUEB:

1. Constructed Response Questions (CRQs)

HOW TO ATTEMPT CRQs:

- Write the answer to each Constructed Response Question/ERQs in the space given below it.
- Use black pen/pencil to write the responses. Do not use glue or pin on the paper.

SECTION B (SHORT ANSWER QUESTIONS)

1. 25 Laborer construct 15 rooms in 18 days. In how many days can 10 laborer constructs 10 rooms of the same size?

S.NO	CRQ	ANSWER	CL	DL
2.	25 Laborer construct 15 rooms in 18 days. In how many days can 10 laborer constructs 10 rooms of the same size?	SAME AS Q.20	K/A	M
3.	Compute the compound interest on Rs. 5000/- for 4 years at the rate of 5% per annum, compounded semiannually OR An amount is invested at 10% compounded quarterly, find the effective rate of interest	SAME AS Q.21	K/A	E
4.	Perform the following binary operation; (a) $11011 + 10111 + 101$. (b) $1100011 - 100110$	SAME AS Q8	K/A	E
5.	If 16 men paint 8 houses in 7 days. How many houses can 5 men paint in 14 days?	SAME AS 20	K/A	M
6.	Perform the following binary operations: (a) $1011 + 1001 - 111$ (b) 1001×101	SAME AS 16	K/A	E

7.	Find the compound interest and accumulate amount on Rs.60000 for 5 years at 7% per annum compounded quarterly.	SAME AS 21	K/A	E
8.	Convert the binary number 1011 to its equivalent decimal number	11	K/A	D
9.	Convert the decimal number 56 to the equivalent binary number	111000	K/A	M
10.	Find the equation of straight line passes through the point (2, 3) with slope=4. Also find x-intercept and y-intercept.	$Y=-5, X=5/4$	K/A	E
11.	Distribute an amount of Rs 6800 among three persons in the ratio of 1 : 5 : 4. What is the share of each person?	1st person share = $6800 \times 1/10 = 680$ 2nd person share = $6800 \times 5/10 = 3400$ 3rd person share = $6800 \times 4/10 = 2720$	K/A	E
12.	Selling price of an item is Rs 250. Find the cost price of the item if it is sold at a profit of 13%.	221.24	K/A	E
13.	Perform the following binary operations: i) $1110 + 1100 + 10110$ ii) $10011 - 1010$ iii) 1011×101 iv) $11110 \div 101$	i) 110000 ii) 1001 iii) 110111 iv) 100011	K/A	D
14.	20 men paint a building in 5 days. How long would 8 men take?	12.5 days	K/A	M
15.	If $a : b = 13 : 4$ and $b : c = 5 : 6$, find $a : b : c$	65:20:24	K/A	E
16.	Jawed bought 480 calculators at Rs.360 each and sold them at Rs.340 each, find percentage of profit or loss.	5.56%	K/A	E
17.	195 men working 10 hours a day can finish a job in 20 days. How many men should be employed to finish the job in 15 days if they work 13 hours a day?	200 Mens	K/A	E
18.	How much money will be received by an Investor on Rs.50,000 after 10 years at rate of 12.5%, compounded bi-annually?	168092.6712	K/A	D

