

**SAMPLE ENTRY TEST BSCS
SECTION C**

Total marks: 40

Time allowed: 50 min

Instructions:

There will be forty questions in this section of the test. You will be provided with some options and you will have to select that option, which you think, is the correct answer.

QUESTIONS: MATHEMATICS (1-12)

Example 1 : Domain of the function $f(x) = \sqrt{4 - x}$ is

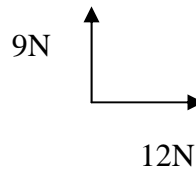
- (i). $[-\infty, 4)$
- (ii). $[-\infty, 4]$
- (iii). $[4, \infty)$

Example 2 : The cosine of the angle between the vectors $u = 3i + j - k$ and $v = 2i - j + k$ is

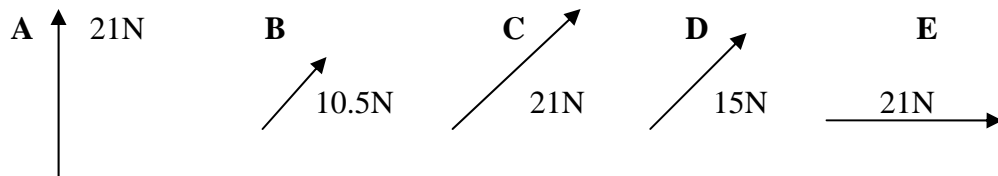
- (i). $4/\sqrt{66}$
- (ii). 3
- (iii). $4/66$

QUESTIONS: PHYSICS (13-24)

Example 1 : The diagram shows a 9N force and a 12N force acting at right angles.



Which of the following diagrams shows the resultant force?

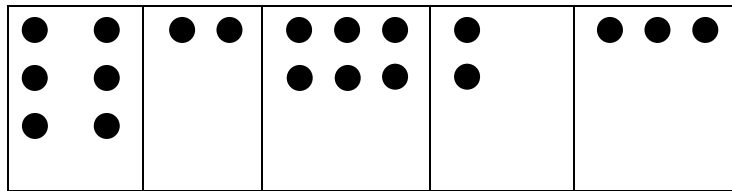
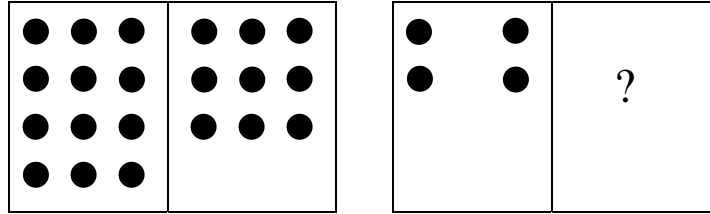


Example 2 : A battery moves a charge of 60C around a circuit at a constant rate in a time of 20s. What is the current in the circuit?

A 0.3A B 3.0A C 40A D 80A E 1200A

QUESTIONS: ANALOGIES (25-28)

Example:



A B C D E

QUESTIONS: LOGIC (29-33)

Example:

Box No	1	2	3	4	5
Contents	6	3	-2	6	9

- 1) Add the contents of boxes 2 and 3 and put the result in box 3
- 2) Multiply the contents of boxes 3 and 4 and put the result in box 4
- 3) The result of operation in step 2 is:

- a) 5
- b) 6
- c) 8

QUESTIONS: COMPUTER (33-40)

Example:

Which of the following are characteristics of modern computers?

- a) Speed
- b) accuracy
- c) No feelings
- d) All of the above