

Program :

```
#include <stdio.h>
#include <stdlib.h>
#include <string.h>

struct Question {
    char question[200];
    char options[4][100];
    char correct;
};

int main() {
    int n, score = 0;
    struct Question *q;

    printf("Enter number of questions: ");
    scanf("%d", &n);
    getchar();
    q = (struct Question *)malloc(n * sizeof(struct Question));

    if (q == NULL) {
        printf("Memory allocation failed!\n");
        return 1;
    }

    for (int i = 0; i < n; i++) {
        printf("\nQuestion %d:\n", i + 1);
        printf("Enter question: ");
```

```
fgets(q[i].question, 200, stdin);

for (int j = 0; j < 4; j++) {
    printf("Option %c: ", 'A' + j);
    fgets(q[i].options[j], 100, stdin);
}

printf("Enter correct option (A/B/C/D): ");
scanf(" %c", &q[i].correct);
getchar();

printf("\n===== QUIZ STARTED =====\n");

for (int i = 0; i < n; i++) {
    char ans;
    printf("\nQ%d: %s", i + 1, q[i].question);

    for (int j = 0; j < 4; j++) {
        printf("%c. %s", 'A' + j, q[i].options[j]);
    }

    printf("Your answer: ");
    scanf(" %c", &ans);

    if (ans == q[i].correct) {
        score++;
    }
}
```

```
printf("\n===== SCOREBOARD =====\n");
printf("Total Questions : %d\n", n);
printf("Correct Answers : %d\n", score);
printf("Wrong Answers : %d\n", n - score);
printf("Score : %d/%d\n", score, n);
free(q);
return 0;
}
```

Output :

Question 1

Question: What is the size of int in C (on most systems)?

- A. 1 byte
- B. 2 bytes
- C. 4 bytes
- D. 8 bytes

Correct Option: C

Question 2

Question: Which symbol is used to end a statement in C?

- A. :
- B. ;
- C. .
- D. ,

Correct Option: B

Question 3

Question: Which header file is required for printf()?

- A. stdlib.h
- B. conio.h

C. math.h

D. stdio.h

Correct Option: D

Question 4

Question: Which loop executes at least once even if condition is false?

A. for

B. while

C. do-while

D. if

Correct Option: C

Question 5

Question: What does malloc() do?

A. Frees memory

B. Allocates memory dynamically

C. Copies memory

D. Compares memory

Correct Option: B

Question 6

Question: Which data type is used to store decimal values?

A. int

B. char

C. float

D. void

Correct Option: C

Question 7

Question: What is the correct file extension for C programs?

A. .cp

B. .c

C. .cpp

D. .txt

Correct Option: B

Question 8

Question: Which operator is used for logical AND?

A. &

B. &&

C. |

D. ||

Correct Option: B

Question 9

Question: Which function is used to read a string with spaces?

A. scanf()

B. gets()

C. fgets()

D. puts()

Correct Option: C

Question 10

Question: Which keyword is used to define a structure?

A. struct

B. union

C. define

D. typedef

Correct Option: A