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Version No.				
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ROLL NUMBER						

COMPUTER STUDIES
HSSC–II
SECTION – A (Marks 10)

Time allowed: 15 Minutes

Section – A is compulsory. All parts of this section are to be answered on this page and handed over to the Centre Superintendent. Deleting/overwriting is not allowed.

Do not use lead pencil.

حصہ اوّل لازمی ہے۔ اس کے جوابات اسی صفحہ پر دے کر نگرانِ مرکز کے حوالے کریں۔ کاٹ کر دوبارہ لکھنے کی اجازت نہیں ہے۔ لیڈ پنسل کا استعمال ممنوع ہے۔

Answer Sheet No. _____

ہر سوال کے سامنے دیے گئے، کریکولم کے مطابق درست دائرہ کو پُر کریں۔ **Invigilator Sign.** _____

Fill the relevant bubble against each question according to curriculum: **Candidate Sign.** _____

	Question سوال	A	B	C	D	A	B	C	D
1.	Speed of computer is measured in:	km/sec	bps	GHz	kbps	○	○	○	○
2.	Which of the following is an example of System software?	MS Office	Adobe Photoshop	Antivirus	MS Paint	○	○	○	○
3.	1's complement of 1101 is:	0010	1110	0001	0011	○	○	○	○
4.	Which of the following device can be removed or added to computer system directly when required?	RAM	Hard disk	USB	Cache	○	○	○	○
5.	4 nibbles = _____ byte(s).	1	2	3	4	○	○	○	○
6.	Which of the following software is used for improving performance of computer system?	Utility Program	Device Driver	Language Translators	Operating System	○	○	○	○
7.	Which structure is used to execute the specific lines of code based on some condition?	Repetitive	Conditional	Sequential	Structural	○	○	○	○
8.	The device that is used to read the barcode on products in retail stores is called:	Bar code reader	Scanner	Bar code printer	Bar code camera	○	○	○	○
9.	Which of the following relates to the "Number of Pixels" in digital images?	Blurring	Distortion	Noise	Resolution	○	○	○	○
10.	The operator having the lowest precedence is:	*	/	–	%	○	○	○	○

COMPUTER STUDIES HSSC–II

Time allowed: 2:15 Hours **Total Marks Sections B and C: 40**

SECTION – B (Marks 24)

Q. 2 **Write brief answers of any EIGHT parts.** **(8 x 3 = 24)**

(i) Briefly explain the role of System Software in computer.

(ii) Write the use of Computer Simulation, CAM and CAD software.

(iii) What is meant by "Game Controller"? Give examples.

(iv) Briefly explain the role of "Cache Memory" in Computer system. Also enlist its implementation levels.

(v) Convert $(110101)_2$ to Decimal, Octal and Hexa Decimal number system.

(vi) Subtract $(1101)_2$ from $(1111)_2$ using 1's complement.

(vii) Differentiate between "Flow Chart" and "Algorithm".

(viii) Who is "System Analyst"? Write down his/her role in software development.

(ix) Write down the advantages of "Computer Program". (Any three)

(x) Write the use of "Assignment Statement" in GW BASIC. Give example.

(xi) Give the output of the following code:

```
10 FOR i = 15 to 30
20 IF i MOD 2 = 0 THEN
30 PRINT i;
40 END IF
50 NEXT i
60 End
```

SECTION – C (Marks 16)

Note: **Attempt any TWO questions.** **(2 x 8 = 16)**

Q. 3 **a.** Write a note on Mainframe and Super Computers. **(04)**

b. Explain in detail any FOUR factors affecting processing speed. **(04)**

Q. 4 **a.** Write down the guidelines for drawing flow chart. **(04)**

b. What is programming language? Write down its classification in detail. **(04)**

Q. 5 **a.** Write a program that displays first 100 odd numbers. **(04)**

b. How a computer system helps in Defense System and Traffic Control System? Explain **(04)**