

Reg. No. :

Name :



FIRST YEAR HIGHER SECONDARY EXAMINATION, MARCH 2025

Part – III

Time : 2 Hours

COMPUTER APPLICATION Cool-off time : 15 Minutes (COMMERCE)

Maximum : 60 Scores

General Instructions to Candidates :

- There is a 'Cool-off time' of 15 minutes in addition to the writing time.
- Use the 'Cool-off time' to get familiar with questions and to plan your answers.
- Read questions carefully before answering.
- Read the instructions carefully.
- Calculations, figures and graphs should be shown in the answer sheet itself.
- Malayalam version of the questions is also provided.
- · Give equations wherever necessary.
- Electronic devices except non-programmable calculators are not allowed in the Examination Hall.

വിദ്യാർത്ഥികൾക്കുള്ള പൊതുനിർദ്ദേശങ്ങൾ :

- നിർദ്ദിഷ്ട സമയത്തിന് പുറമെ 15 മിനിറ്റ് 'കൃൾ ഓഫ് ടൈം' ഉണ്ടായിരിക്കും.
- 'കൂൾ ഓഫ് ടൈം' ചോദ്യങ്ങൾ പരിചയപ്പെടാനും ഉത്തരങ്ങൾ ആസൂത്രണം ചെയ്യാനും ഉപയോഗിക്കുക.
- ഉത്തരങ്ങൾ എഴുതുന്നതിന് മുമ്പ് ചോദ്യങ്ങൾ ശ്രദ്ധാപൂർവ്വം വായിക്കണം.
- നിർദ്ദേശങ്ങൾ മുഴുവനും ശ്രദ്ധാപൂർവ്വം വായിക്കണം.
- കണക്ക് കൂട്ടലുകൾ, ചിത്രങ്ങൾ, ഗ്രാഫുകൾ, എന്നിവ ഉത്തരപേപ്പറിൽ തന്നെ ഉണ്ടായിരിക്കണം.
- ചോദ്യങ്ങൾ മലയാളത്തിലും നല്ലിയിട്ടുണ്ട്.
- ആവശ്യമുള്ള സ്ഥലത്ത് സമവാക്യങ്ങൾ കൊടുക്കണം.
- പ്രോഗ്രാമുകൾ ചെയ്യാനാകാത്ത കാൽക്കുലേറ്ററുകൾ ഒഴികെയുള്ള ഒരു ഇലക്ട്രോണിക് ഉപകരണവും പരീക്ഷാഹാളിൽ ഉപയോഗിക്കുവാൻ പാടില്ല.

PART – I

Answer any 5 questions from 1 to 6. Each carries 1 score.

 $(5 \times 1 = 5)$

 $(9 \times 2 = 18)$

(1)

(1)

- 1. The base of Octal number system is
- 2. Which input device is used to value answer paper in Objective type examination ?
 - (i) MICR
 - (ii) Bar code Reader
 - (iii) OMR
 - (iv) Joystick
- 3. The program written by one person may need to be modified by some other person in future. Which phase of programming will be helpful for this ?
- The name given to a memory location is known as .
- Predict the output of the following C++ code segment, if the value of a = 10 : c=a++; cout≪c;
- 6. Who is known as the father of internet ?

PART - II

Answer any 9 questions from 7 to 18. Each carries 2 score.

7. Convert the following numbers into binary number system :

- (a) (175)₈
- (b) (6A)₁₆
- 8. Write a short note on Unicode.
- 9. List out different E-waste disposal methods.
- 10. Write an algorithm to find the height of the taller one among two students.
- 11. Identify the type of error :
 - (a) Rules of the Programming language are not followed.
 - (b) Instead of '+' operator, '*' operator is used.
- 12. What are the rules to name an identifier ?

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- Write the use of the following operators :
 (a) =
 (b) %
- 14. Evaluate the following expressions :
 - (a) p-q + r/2, given p=5, q=3, r=2
 - (b) $x \ge 10 \&\& y \ge 3$, given x = 5, y = 3
- 15. Explain the two types of type conversions in C++.
- Rewrite the following code using if....else statement : big = (n1>n2)?n1:n2;
- 17. Write each characteristic of any two unguided media.
- 18. Which are the different types of interactions in E-Governance ?

PART - III

(1)

(1)

 $(9 \times 3 = 27)$

(1)

(2)

Answer any 9 questions from 19 to 29. Each carries 3 score.

- 19. Convert -38 to 2's complement method.
- 20. Differentiate between RAM and ROM.
- 21. (a) Define debugging.(b) Which are the different types of errors ?
- Categorize the following into different type of tokens: 123, "hello", int, sum, +, #
- 23. Describe the classification of operators based on number of operands with example.
- 24. Write a C++ program to find the average of 3 CE scores.
- 25. Differentiate between switch statement and else if ladder.

26. Expand the terms :

- (a) TCP/IP
- (b) HTTP
- (c) DNS

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- 27. Write any three advantages of social media.
- 28. Answer the following in a word :

(a)	A stand alone malware program that replicates itself, usually makes the data traffic slow.	(1)
(b)	Technical effort to manipulate the normal behaviour of computers and	
	associated networks.	(1)
(c)	Unsolicited e-mails sent indiscriminately.	(1)

29. Describe any 3 E-Learning tools with their use ?

PART-IV

Answer any 2 questions from 30 to 32. Each carries 5 score. (2)	x5 = 1	0)
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- 30. (a) What is an operating system? (1)
 (b) Write and explain the major functions of an operating system. (4)
- 31. Consider the following code segment :

int i=1;

while(i<5)

{

if(i%2==0)

```
cout≪i≪"\n";
```

++i; }

(a) Predict the output.
(b) What will be the effect in output if first statement is changed to *int i=5*;
(c) Rewrite the above code using an exit controlled loop.
(2)

 32. (a) What do you mean by network topology ?
 (1)

 (b) Explain various network topologies.
 (4)