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B I (Three Year G)
Under 1+1+1 System

2018

**INTRODUCTION TO INFORMATION
TECHNOLOGY (General)**

Paper : 1G5

(Revised New Syllabus)

Time : 2 hours

Full Marks : 50

The figures in the margin indicate full marks.

GROUP—A

Answer any **two** questions :

15×2=30

1. What is generation of computer? Describe briefly the five generations of computer according to technology, purpose and size.

3+12=15

2. What is operating system (OS)? What is the difference between DOS and Windows Operating System? What is the difference between multiprogramming and multiprocessing?

3+4+8=15

8MRD/353

(Turn Over)

(2)

3. Why are input-output devices necessary?
Give three examples of each of the two categories and write their functions. $3+12=15$
4. Why is binary number system used in computer? What is ASCII code? Convert the decimal number 2685 into an equivalent number to the base of 2, 8 and 16. $3+3+9=15$

GROUP—B

5. Answer any **two** questions : $5 \times 2 = 10$

- (a) Distinguish between high-level language and machine language.
- (b) Distinguish between RAM and ROM.
- (c) Distinguish between LAN and WAN.
- (d) Write a note on Optical Mark Recognition (OMR).

GROUP—C

6. Answer any **five** questions : $2 \times 5 = 10$

- (a) Draw a block diagram of a computer system.
- (b) What is print preview?

(3)

- (c) What is assembler?
- (d) What do you mean by 'booting'?
- (e) What is slide transition in PowerPoint?
- (f) Define 'mesh topology'.
- (g) Explain plotter.
- (h) Explain, with examples, the internal and external commands of MS-DOS.

2017

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GROUP—A

Answer any **two** questions :

15×2=30

1. Discuss the functions of 'mouse'. State the characteristics of 'impact' and 'non-impact' printers. 4+11
2. Describe the features of computer. Explain the role of 'information and communication technology' in business. 5+10
3. Comment on the utility of MS-PowerPoint in education. Discuss the causes of popularity of Windows Operating System. 8+7

(2)

4. Narrate different types of 'digital coding' in computing. Compare between ASCII and EBCDIC. Divide 110110_2 by 101_2 . $8+5+2$

GROUP—B

5. Answer any **two** questions : $5 \times 2 = 10$

- (a) Discuss any two topologies.
- (b) Describe the role of radio in everyday life.
- (c) Briefly narrate the concept of mail merge.
- (d) State with an example how to insert a formula in MS-Word.

GROUP—C

6. Answer any **five** questions : $2 \times 5 = 10$

- (a) What is 'Modem'?
- (b) What is 'USB'?
- (c) What is the utility of 'File Explorer' in Windows OS?
- (d) What is 'master slide'?

MR7/358

(Continued)

(3)

- (e) Write the steps to change 'Tab' setting in MS-Word.
- (f) What is 'microprocessor'?
- (g) Name two laptop-making companies.
- (h) Mention two advantages of 'Micro SD' card.
- (i) What is 'Excess-3' code?

MR7/358

(Turn Over)

B I (Three Year G)
Under 1+1+1 System

2016

**INTRODUCTION TO INFORMATION
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(Revised New Syllabus)

Time : 2 hours

Full Marks : 50

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GROUP—A

Answer any **two** questions :

15×2=30

1. (a) Describe the role of information technology in modernization of business world.
(b) What do you mean by generation of computer? Describe briefly the five generations of computer. 5+2+8=15
2. (a) Write down the steps for converting binary to its equivalent gray code.
(b) Convert the decimal number 268 into an equivalent number to the base of 8 and 16.

(2)

(c) Evaluate the following binary number :

$$1101111+100110+10101 \quad 5+6+4=15$$

3. Describe the operating system. Distinguish between DOS and Windows operating system. Distinguish between multiprocessing and multiprocessing.

$$4+7+4=15$$

4. What is word processing? How can you set header and footer for a document in MS-Word? What are the basic tools necessary to create a word document? What is the function of cut, paste and copy?

$$3+4+5+3=15$$

GROUP—B

5. Answer any **two** questions : $5 \times 2 = 10$

(a) Describe the functions of input devices with examples.

(b) Distinguish between high-level language and machine language.

(c) How do you add/remove software application in your PC?

(d) How do you animate text and object in a PowerPoint?

RM16/358

(Continued)

(3)

GROUP—C

6. Answer any **five** questions : $2 \times 5 = 10$

(a) What is assembler?

(b) Note down the different levels of information.

(c) Write the name of the basic system folders shown immediately after loading Windows operating system.

(d) Explain UNIX operating system.

(e) What is design template?

(f) Draw the block diagram of a computer system.

(g) Write down the important properties of computer memory.

(h) What is print preview?

(i) What is wireless communication?

RM16/358

(Turn Over)

B I (Three Year G)
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2015

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Time : 2 hours

Full Marks : 50

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GROUP—A

Answer any **two** questions :

15×2=30

1. What is 'language translator'? Explain the functions of system software and application software. How does a high-level language differ from an assembly language? 2+6+7=15

2. (a) Explain AND gate with breakup of logic circuit and mathematical analysis.

- (b) Convert the binary number $(1011101011)_2$ into its octal and hexadecimal equivalent.

- (c) Subtract the following binary numbers :

$10101 - 10001$

$5+6+4=15$

DR15—7140/342

(Turn Over)

3. (a) Briefly discuss the various storage systems used in digital computer.

(b) Distinguish between RAM and ROM.

- (c) Explain five differences of impact and non-impact printers with examples.

$$6+4+5=15$$

4. What do you mean by word processing? How do you create and edit document in MS-Word? Explain with examples. What is 'spell checking procedure' in word processing?

$$3+7+5=15$$

GROUP—B

5. Answer any **two** questions :

$$5 \times 2 = 10$$

- (a) Discuss the need for information and computer revolution in present-day.

(b) Describe optical mark recognition (OMR).

- (c) What purpose does the outline view of slides serve?

(d) State the advantages of using optical fibre cable over coaxial cable.

GROUP—C

6. Answer any **five** questions :

$$2 \times 5 = 10$$

(a) What do you mean by 'booting'?

(b) Describe the term 'spooling'.

(c) Define 'star topology'.

(d) Draw block diagram of computer system.

(e) What toolbars are used in MS-Word?

(f) What is slide transition in PowerPoint?

(g) What do you mean by OS?

(h) Give one example of each generation of computers.

(i) Name and describe the basic steps involved in a 'data processing cycle'.

६. कुनै पाँच प्रश्नका उत्तर दिनुहोस् :

- (क) Booting भनेको के हो?
- (ख) Spooling पदको वर्णन गर्नुहोस्।
- (ग) Star topology-को परिभाषा दिनुहोस्।
- (घ) Computer पद्धतिको प्रकोष्ठ चित्र अङ्कन गर्नुहोस्।
- (ङ) MS-Word-मा व्यवहार हुने toolbars के-के हुन्?
- (च) PowerPoint-मा slide transition के हो?
- (छ) OS भन्नाले के बुझिन्छ?
- (ज) प्रत्येक computer generation-को एक-एकटा गरे उदाहरण दिनुहोस्।
- (झ) 'सूचना प्रक्रिया चक्र'-अन्तर्गत मूल स्तरको नाम लेख्नुहोस् र त्यसको व्याख्या गर्नुहोस्।

★★★

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GROUP—A

Answer any **two** questions : 15×2=30

1. Distinguish between Data and Information.
How is data converted into information? How does the advent of Information Technology help in conversion of data into information?

6+6+3

2. (a) Explain Gray code and its uses in the digital field. 5
- (b) Convert decimal 23.6 to a binary number. 10

3. Describe, in brief, the difference between a client/server network and a peer-to-peer network. Why do we follow the layer architecture for network software development? 8+7

4. (a) What do you mean by word processing? 4

(b) Name few of the options available in PowerPoint to create a new presentation. 7

(c) State the differences between 'Save' and 'Save as' command. 4

GROUP—B

5. Answer any **two** questions : $5 \times 2 = 10$

(a) Describe the mechanism of wireless architecture and wireless application protocol (WAP).

(b) Distinguish between Cold booting and Warm booting.

(c) What purpose does the Windows Explorer serve?

(d) State the factors that determine whether a communication system is LAN, MAN or WAN.

GROUP—C

6. Answer any **five** questions : $2 \times 5 = 10$

(a) Explain, with examples, the internal and external commands of MS DOS.

(b) What is RAM?

(c) What is paper-layout view?

(d) What are Assembler, Compiler and Interpreter?

(e) What do you mean by WML? Where is it used?

(f) Give one example each from different generations of computers.

(g) Which toolbars are used in MS Word?

(h) What is a 'bandwidth'?

(i) Explain plotter.