

N (Printed Pages 4)

(201217) Roll No.....

B.B.A./B.C.A./B.J.M.C./etc.

NP-3440

B.B.A./B.C.A./B.J.M.C./Etc.

Examination, Dec. 2017

Environmental Studies

(BBA/BCA/BJMC/Etc.-008)

Time : Three Hours [Maximum Marks : 100

Note : Attempt questions from all sections as per instructions.

नोट : सभी खण्डों से निर्देशानुसार प्रश्न हल कीजिए।

Section - A

खण्ड - अ

Note : Answer all the five questions. Each question carries 4 marks. Very short answer is required not exceeding 75 words. $4 \times 5 = 20$

नोट : सभी पाँच प्रश्नों के उत्तर दीजिए। प्रत्येक प्रश्न 4 अंकों का है। अधिकतम 75 शब्दों में अति लघु उत्तर अपेक्षित है।

1. Food chain and Food web.

खाद्य शृंखला तथा खाद्य जाल।

P.T.O.

2. Global Warming

पृथ्वी उष्मायन

3. Pond Ecosystem

तालाब पारितन्त्र

4. HIV

एच आई वी

5. Wild Life Protection Act

वन्य जीव सुरक्षा अधिनियम

Section - B

खण्ड - ब

Note : Answer any two questions out of the following three. Each question carries 10 marks. Short answer is required not exceeding two hundred words. $10 \times 2 = 20$

नोट : निम्नलिखित 3 प्रश्नों में से किन्हीं 2 का उत्तर दीजिए। प्रत्येक प्रश्न 10 अंक का है। अधिकतम 200 शब्दों में लघु उत्तर अपेक्षित है।

6. Define Plant succession and describe Hydro sere in detail.

पादप अनुक्रमण की परिभाषा दीजिए तथा जलक्रमक का विस्तृत वर्णन कीजिए।

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7. Describe the main causes and effects of deforestation.

वन उन्मूलन के मुख्य कारण तथा प्रभावों का वर्णन कीजिए।

8. Write notes on any **two**.

(a) Biomagnification.

(b) Rain water harvesting.

(c) Endangered species.

किन्हीं दो पर टिप्पणी लिखिए।

(अ) जैव संवर्धन

(ब) वर्षा जल एकत्रीकरण

(स) संकटग्रस्त जातियाँ

Section - C

खण्ड - स

Note : Answer any **three** questions out of the following **five** questions. Each question carries 20 marks. Answer is required in detail. $20 \times 3 = 60$

नोट : निम्नलिखित 5 प्रश्नों में से किन्हीं 3 का उत्तर दीजिए। प्रत्येक प्रश्न 20 अंकों का है। विस्तृत उत्तर अपेक्षित हैं।

9. Write an essay on pollution.

प्रदूषण पर निबन्ध लिखिए।

10. Define Biodiversity. Describe its distribution and importance.

जैव विविधता की परिभाषा लिखिए। इसके वितरण तथा महत्व का वर्णन कीजिए।

11. Describe characteristic features, structure and functions of Desert Ecosystem.

मरुस्थलीय इकोतन्त्र के लक्षण, संरचना व कार्यों का वर्णन कीजिए।

12. Write notes on any **two** of the following:

(a) Energy flow in Ecosystems

(b) Acid Rain

(c) Floods

किन्हीं दो पर टिप्पणी लिखिए:

(अ) इकोतन्त्र में ऊर्जा का प्रवाह

(ब) अम्ल वर्षा

(स) बाढ़

13. Write an essay on human rights.

मानव अधिकारों पर निबन्ध लिखिए।

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B.C.A. - I Sem.

18004

B.C.A. Examination, Dec.-2017

Business Communication

(BCA-106)

(New Course)

Time : Three Hours / [Maximum Marks : 75

Note : Attempt questions from **all** Sections as per instructions.

Section-A

(Very Short Answer Questions)

Note : Attempt all the **five** questions. Each question carries 3 marks. Very short answer is required not exceeding 75 words.

3×5=15

1. What is a circular? Explain the need for it?
2. State the media of oral communication.

P.T.O.

3. What are the causes for liking written communication?
4. What is Tele conferencing? State the advantages of Tele conferencing.
5. State the important part of a business letter.

Section-B

(Short Answer Questions)

Note : Attempt any **two** questions out of the following three questions. Each question carries 7½ marks. Short answer is required not exceeding 200 words. 7½×2=15

1. What are the barriers of communication? Discuss language as a barrier to communication.
2. Write a sales letter to promote the sale of a smart phone.
3. Discuss in detail any two types of Interviews.

1800412

Section-C

(Detailed Answer Questions)

Note : Answer any **three** questions out of the following five questions. Each question carries 15 marks. Answer is required in detail. $15 \times 3 = 45$

1. "Communication is the life blood of business." Explain it and discuss why communication is so important to an organization.
2. What do you mean by An Interview? What are the objectives of Interview? Explain various steps involved in conducting an Interview.
3. (a) What is Listening? Explain in detail barrier to listening.
(b) Draft notice of meeting calling for Annual General Meeting to the Mumbai Manager of Association.

4. Write short notes on any **two**-
 - (a) Communication Models and approaches
 - (b) Language skills and choice of words
 - (c) Verbal and Non-verbal communication.
5. What do you mean by effective listening? Describe in brief the main principles of effective listening.

COMPUTER FUNDAMENTALS AND OFFICE AUTOMATION**(BCA-103) (New Course)****Time : Three Hours****(Maximum Marks : 75)****Note :** Attempt questions from all Sections as per instruction.**Section : A****(Very Short Answer Questions)****Note :** Attempt all the five questions. Each question carries 3 marks. Very short answer is required. $3 \times 5 = 15$

1. Write down the binary equivalent of the following: 3
(1) $(FA3)_{16}$ (ii) $(777)_8$ (ii) $(1020)_{10}$
2. Write down the answers for the following: 3
(1) $(11010)_2 = (?)_{10}$ (ii) $(11111)_{16} = (?)_2$ (iii) $(11111)_2 = (?)_{16}$
3. What are Super Computers? 3
4. What are Batch Files in DOS? 3
5. Explain three most significant features of a word processor 3

Section : B (Short Answer Questions)**Note :** Give short answers to any two questions out of the given three questions. Each question carries $7\frac{1}{2}$ marks. $7\frac{1}{2} \times 2 = 15$

6. How is data organized in files and directories? $7\frac{1}{2}$
7. What is an algorithm? Write down the algorithm for finding out whether a number is odd or even. $7\frac{1}{2}$
8. Explain the importance features of desktop in reference to MS Windows. $7\frac{1}{2}$

Section : C (Detailed Answer Questions)**Note :** Give answers to any three of the following five questions in detail. Each question carries 15 marks. $15 \times 3 = 45$

9. Discuss various types of primary and secondary memories. 15
10. (a) Draw a flowchart to print first 10 odd numbers. $7\frac{1}{2}$
(b) What are batch files in DOS? How is a batch file created? Explain with the help of an example. $7\frac{1}{2}$
11. (a) What is a control panel? Explain its various features. $7\frac{1}{2}$
(b) What is the role of a task bar? What are its features? Explain. $7\frac{1}{2}$
12. Explain various features of MS-Word. Write down the steps involved in each of the following:
(a) Creating a table and filling it with data. 5
(b) Checking the spellings of the text entered. 5
13. (a) What are the main features of MS-Excel? 5
(b) Discuss the role of formulas in MS-Excel? 5
(c) Explain the three types of addressing modes available in MS-Excel. 5

अपने पुराने पेपर्स हमें **WHATSAPP NUMBER 9300930012** पर भेजे और 10 रुपये का **PAYTM** या **GOOGLE-PAY** पायें और अपने जूनियर्स कि मदद भी करे।

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(201217) Roll No.....

BCA-I Sem.

18005

B.C.A. Examination, Dec. 2017

MATHEMATICS-I

(BCA-101)

(New Course)

Time : Three Hours] [Maximum Marks : 75

Note : Attempt questions from **all** sections as per instructions.

Section-A

(Very Short Answer Questions)

Note : Attempt all the **five** questions of this section. Each question carries **3** marks. Very short answer is required. $3 \times 5 = 15$

1. Show that $A = \begin{bmatrix} 1 & 1-i & 2 \\ 1+i & 3 & i \\ 2 & -i & 0 \end{bmatrix}$ is Hermitian.

3

P.T.O.

- 2. Define continuity of a function at a point. 3
- 3. Show that the parabola $y^2 - 4ax = 0$ has no asymptote. 3
- 4. Define Gamma and Beta function. 3
- 5. Define vector in 3-dimensions with example. 3

Section-B

(Short Answer Questions)

Note : Attempt any **two** questions out of the following **three** questions. Each question carries $7\frac{1}{2}$ marks. Short answer is required. $7\frac{1}{2} \times 2 = 15$

6. A function $f(x)$ is defined as follows:

$$f(x) = \begin{cases} (x^2/a) - a, & \text{when } x < a \\ 0 & , \text{ when } x = a \\ a - (a^2/x), & \text{when } x > a \end{cases}$$

Prove that the function $f(x)$ is continuous at $x=a$.

7. Find n^{th} differential coefficient of $x^3 \cos x$.

18005/2

8. Find the area of a rectangle having vertices A,B,C & D with position vectors.

$$a = \left(-1, \frac{1}{2}, 4\right), b = \left(1, \frac{1}{2}, 4\right)$$

$$c = \left(1, \frac{-1}{2}, 4\right), d = \left(-1, \frac{-1}{2}, 4\right)$$

respectively.

Section-C

(Detailed Answer Questions)

Note : Answer any **three** questions out of the following **five** questions. Each question carries **15** marks. Answer is required in detail. 15×3=45

9. Verify Cayley-Hamilton theorem 15

$$A = \begin{bmatrix} 2 & 2 & 1 \\ 1 & 3 & 1 \\ 1 & 2 & 2 \end{bmatrix}$$

Also determine the characteristic roots and corresponding characteristic vector of the matrix A.

10. Examine the continuity of the function:

$$f(x) = \begin{cases} -x^2 & \text{if } x \leq 0 \\ 5x - 4 & \text{if } 0 < x \leq 1 \\ 4x^2 - 3x & \text{if } 1 < x < 2 \\ 3x + 4 & \text{if } x \geq 2 \end{cases}$$

at $x=0, 1$ & 2 . 15

11. Trace the curve $x^3+y^3=3axy$. 15

12. (i) Expand $\log(1+x)$ by Maclaurin's Theorem. 15

- (ii) Expand $\sin x$ in powers of $(x-\pi/2)$ by using Taylor's Theorem. 15

13. Evaluate :

(i) $\int \frac{e^x(1+x)}{\cos^2(e^x x)} dx$

(ii) $\int \sin x \sin 2x \sin 3x dx$

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B.C.A. – I Sem.

18003

B.C.A. Examination, Dec.-2017

Principles of Management

(BCA-104)

(New Course)

Time : Three Hours] [Maximum Marks : 75

Note : Attempt questions from **all** sections as per instructions.

Section-A

(Very Short Answer Questions)

Note : Attempt all the **five** questions. Each question carries 3 marks. Very short answer is required not exceeding 75 words.

3×5=15

1. What are the features of TQM?

P.T.O.

2. What are the essential qualities of a Leader.
3. State the features of motivation.
4. What is MBO?
5. What are different types of Plan?

Section-B

(Short Answer Questions)

Note : Attempt any **two** questions out of the following three questions. Each question carries 7½ marks. Short answer is required not exceeding 200 words. 7½×2=15

6. Discuss the contribution of "Hawthorn Experiments" in the development of managerial thinking.
7. Write short note on span of control.
8. What are the factors affecting decision making process.

18003\2

Section-C

(Detailed Answer Questions)

Note : Attempt any **three** questions out of the following five questions. Each question carries 15 marks. Answer is required in detail.

15 × 3 = 45

9. Define ethics and social responsibility of Business. What are different tools of ethics.
10. "Planning without control is meaningless" and "control without planning is a waste" Discuss.
11. What do you mean by levels of management? Briefly describe the different levels of management.
12. Explain the role of different strategies.

13. Discuss the condition of need for change in organization. Also discuss the alternative change techniques.

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B.C.A.- I Sem.

18002

B.C.A. Examination, Dec. 2017

Programming Principles & Algorithm

(BCA-102)

(New Course)

Time : Three Hours] [Maximum Marks : 75

Note : Attempt questions from all sections as per instructions.

Section-A

(Very Short Answer Questions)

Note : Answer all the **five** questions. Each question carries 3 marks. Very short answer is required not exceeding 75 words.

$3 \times 5 = 15$

1. What do you understand by swapping?

P.T.O.

2. Define time complexity.
3. What is flowchart? What are the various symbols used in drawing flow chart?
4. What is algorithm? Explain.
5. What are general characteristics of C?

Section - B

(Short Answer Questions)

Note : Answer any **two** questions out of the following three questions. Each question carries 7.5 marks. Short answer is required not exceeding 200 words. $7.5 \times 2 = 15$

6. Explain difference between Do-while and while loop with suitable example.
7. Define following terms with suitable example.
 - (i) Constant
 - (ii) Identifier
8. Write a flowchart to find the average of the marks obtained by a student in five subjects.

1800212

Section-C

(Detailed Answer Questions)

Note : Answer any **three** questions out of the following five questions. Each question carries 15 marks. Answer is required in detail. 15×3=45

9. What is function? Explain with suitable examples.
10. What is Big-oh notation? What are limitations and properties of Big-oh notation? Explain in brief.
11. What is Operator? Explain it with its all types in C with complete description.
12. Attempt any **four** of the following :
 - (i) Explain Local and Global variables.
 - (ii) Write a 'C' program to accept number and find out whether it is even or odd.

1800213

P.T.O.

- (iii) Write a 'C' program to find the sum of the first n numbers.
- (iv) Distinguish between Break and Continue statement.
- (v) Explain if-else and Nested-if-else with example.

13. Explain :

- (i) Recursion with suitable example.
- (ii) Storage class
- (iii) Switch statement

1800214