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BBA/BCA/BJMC/ETC

# NP-3440

## BBA/BCA/BJMC/ETC. Examination, Dec.-2020

## ENVIRONMENTAL STUDIES

## (BBA/BCA/BJMC/ETC.-008)

*Time : Three Hours ]*     *[Maximum Marks : 100*

**Note :** This paper is divided into **three** Sections-A, B and C. **Section-A** contains Long Answer Questions, **Section-B** contains Short Answer Questions and **Section-C** contains Very Short Answer Questions. Attempt all the sections as per instructions.

नोट : इस प्रश्न-पत्र को **तीन खण्डों-अ**, **ब** तथा **स** में विभाजित किया गया है। **खण्ड-अ** में विस्तृत उत्तरीय प्रश्न, **खण्ड-ब** में लघु उत्तरीय प्रश्न तथा **खण्ड-स** में अति लघु उत्तरीय प्रश्न हैं। **सभी** खण्डों को निर्देशानुसार हल कीजिए।

**P.T.O.**

## Section-A/ खण्ड-अ

## (Long Answer Type Questions)

(विस्तृत उत्तरीय प्रश्न)

**Note :** This section contains six questions. Attempt any **three** questions. Each question carries 20 marks. 3×20=60

नोट : इस खण्ड में छः प्रश्न है। किन्हीं **तीन** प्रश्नों का उत्तर दीजिए। प्रत्येक प्रश्न 20 अंक का है।

1. What is Environment? Discuss its important Elements.

   पर्यावरण क्या है? इसके प्रमुख तत्वों की व्याख्या कीजिए।

2. Explain the changing relationship between Man and the Environment.

   मानव एवम् पर्यावरण के बीच बदलते सम्बन्धों की व्याख्या कीजिए। https://www.ccsustudy.com

3. Write an essay on Conservation of Forest Resources.

   वन संसाधनों के संरक्षण पर एक निबन्ध लिखिये।

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4. Give a detailed account of Water Pollution.

जल प्रदूषण का विस्तृत विवरण दीजिए।

5. Rapid growth of population is responsible for Environmental Degradation. Explain.

जनसंख्या में तीव्र वृद्धि पर्यावरण विघटन के लिये उत्तरदायी है। स्पष्ट कीजिए।

6. Which are the factors responsible for Global Warming. Explain its effects.

वैश्विक उष्मीकरण के उत्तरदायी कारक कौन से हैं? उसके प्रभावों की विवेचना कीजिए।

### Section-B/खण्ड-ब

### (Short Answer Type Questions)

### (लघु उत्तरीय प्रश्न)

**Note :** This section contains three questions. Attempt any **two** questions. Each question carries 10 marks. 2×10=20

**नोट :** इस खण्ड में तीन प्रश्न है। किन्हीं **दो** प्रश्नों के उत्तर दीजिए। प्रत्येक प्रश्न 10 अंक का है।

7. Write a short note on Solar Energy.

सौर ऊर्जा पर एक संक्षिप्त टिप्पणी लिखिए।

8. What is Social Forestry?

सामाजिक वानिकी से आपका क्या अभिप्राय है?

9. What is Desertification?

मरूस्थलीयकरण से आप क्या समझते हैं?

### Section-C/खण्ड-स

### (Very Short Answer Type Questions)

### (अति लघु उत्तरीय प्रश्न)

**Note :** This question contains **five** parts. **All** parts are **compulsory.** Each part carries 4 marks. 5×4=20

**नोट :** इस प्रश्न के **पाँच** भाग हैं। **सभी** भाग **अनिवार्य** है। प्रत्येक भाग 4 अंक का है।

10. (i) Environment Protection Act

पर्यावरण संरक्षण अधिनियम

(ii) Natural Disasters

प्राकृतिक आपदाएं

(iii) Rain Water Harvesting

वर्षा जल एकत्रीकरण

(iv) Problem of Marine Pollution

सागरीय प्रदूषण की समस्या

(v) Green House effects

- हरित गृह प्रभाव

**NP-3440/3** **P.T.O.**

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B.C.A. - I Sem.

# 18004

## B.C.A. Examination, Dec.-2020
## Business Communication
## (BCA-106)

*Time : Three Hours ]*    *[Maximum Marks : 75*

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

### Section-A

### (Very Short Answer Questions)

**Note :** Attempt all the **five** questions. Each question carries **three** marks. Very short answer is required not exceeding 75 words.    3×5=15

1. What are the precautions the company Secretary should take while writing letter to the company director?

2. What is meant by mechanical barrier in Communications?

**P.T.O.**

3. List out any five advantages of Video conferencing.

4. What is empathetic listening? How it is different from critical listening?

5. State the differences between grapevine and rumour.

### 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. Draft a suitable reply to a customer who has complained about the poor quality of the goods sent by you.

2. What do you mean by website? Also state its usefulness in business.

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3: What are the principles of effective communication?

## 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

1. Distinguish between formal and informal reports. What do you think are the salient features of a good formal report?

2. "Communication is as essential as anything because nothing can be achieved without it". Elucidate the statement unlining the importance of communication with special reference to business.

3. (a) Discuss the cost effectiveness of various communication devices.

(b) Draft a letter canceling your order placed some days earlier. Give reasons for the cancellation.

4. Write short notes on any **two**-

(a) Guidelines for writing a press report.

(b) Pros and cons of facsimile system (PAX).

(c) Lateral and Diagonal Communication.

5. Elaborate the seven Cs of communication required to make if effective.

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B.C.A.-I Sem.

# 18001

# B.C.A. Examination, Dec.-2020

## Computer Fundamentals and

## Office Automation

## (BCA-103)

*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.     3×5=15

1. Convert the following Nos:

    (a)   $(F28)_{16} = (?)_{10}$

**P.T.O.**

    (b)   $(61.3)_{10} = (?)_2$

    (c)   $(A92H)_{16} = (?)_8$

2. State difference between primary and secondary memory.

3. What are Batch Files in DOS?

4. Write various types of O.S.?

5. State difference between Input and Output device?

## Section-B

## (Short Answer Questions)

**Note :** Give short answers to any **two** questions out of the given three questions. Each question carries 7½ marks.     7½×2=15

6. What is Computer? Explain its characteristics.

7. What do you mean by computer languages? Explain Compiler, Interpreter.

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8. What is flow chart? Explain Flow Chart symbols.

## Section-C
### (Detailed Answer Questions)

Note : Give answer to any **three** of the following five questions in detail. Each question carries 15 marks. 15×3=45

9. Write features, usage of MS-EXCEL? and explain various types of charts in MS Excel.

10. Write short notes on:

   (i) Notepad

   (ii) Status bar

   (iii) Window Application

   (iv) Task bar

   (v) Desktop

11. Write an Algorithm & Flowchart to find the greatest among three Nos.

18001/3                    P.T.O.

12. Explain block diagram of Computer in detail. Also explain types of computers.

13. (i) What is an Assembly language? Explain its advantages and disadvantages over Machine level language.

   (ii) Write features of DOS operating system.

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BCA-I Sem.

# 18005

## B.C.A. Examination, Dec.-2020

### MATHEMATICS-I

### (BCA-101)

*Time : Three Hours ]*    *[Maximum Marks : 75*

**Note :** Attempt questi        sections

as per instructions.

### Section-A

**Note :** Attempt all the **five** questions of this section. Each question carries 3 marks.    5×3=15

1. Define rank of a Matrix with example.

2. Find third differential coefficient of $x^4 \cdot e^{2x}$.

3. What do you mean by Beta and Gamma function?

**P.T.O.**

4. Give the statement of Rolle's theorem.

5. In short, explain Dot product and Cross product.

### Section-B

**Note :** Attempt any **two** questions out of the three questions. Each question carries 7½ marks.    2×7½=15

6. Solve the following equations by Cramer's Rule

$3x+4y=5$

$x-y=-3$

7. Use Maclaurin's theorem to prove that

$$\cos x = 1 - \frac{x^2}{2!} + \frac{x^4}{4!} - \dots (-1)^{n/2} \frac{x^n}{n!} + \dots$$

8. If $I_n = \int_0^{\pi/3} \tan^n x\, dx$ then show that $(n-1)$

$$(I_n + I_{n-2}) = (\sqrt{3})^{n-1}$$

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## Section-C

**Note :** Attempt any **three** questions out of the following five questions. Each question carries 15 marks. 3×15=45

9. What do you mean by L-Hospital rule? Evaluate $\lim\limits_{x \to \frac{\pi}{2}} \dfrac{\log\left(x-\frac{\pi}{2}\right)}{\tan x}$ by using L-Hospital Rule.

10. Examine the function $f(x)$ given by

$f(x) = 10x^6 - 24x^5 + 15x^4 - 40x^3 + 108$ for maximum and minimum values.

11. If $\vec{F} = (x^2 + y^2)\hat{i} - 2xy\hat{j}$ and curve C is the rectangle in xy-plane bounded by $y=0$, $x=a$, $y=b$, $x=0$ then prove that

$\int_C \vec{F} \cdot d\vec{r} = -2ab^2$

**18005/3**          **P.T.O.**

12. If $f(x) = \dfrac{|x|}{x}$ , for $x \neq 0$

and $f(x) = 0$, for $x=0$

then show that $f(x)$ is not continuous at $x=0$.

13. Investigate for what values of $\lambda$, $\mu$ the simultaneous equations

$x+y+z=6$

$x+2y+3z=10$

$x+2y+\lambda z=\mu$

Prove (i) no solution (ii) a unique solution and (iii) infinitely many solutions.

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B.C.A.-I Sem.

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# 18003
# B.C.A. Examination, Dec.-2020
## PRINCIPLES OF MANAGEMENT
### (BCA-104)

*Time : Three Hours ]*          *[Maximum Marks : 75*

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

### Section-A

**Note :** Attempt all the **five** questions. Each question carries 3 marks. Very Short answer is required not exceeding 75 words.          $3 \times 5 = 15$

1. What is MBO?

2. What are the various leadership styles?

3. State the features of motivation.

**P.T.O.**

4. What are different types of plan?

5. Write the steps of Controlling?

### Section-B

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

6. What are the skills required by manager at different levels?

7. Define stress. Explain the concept of stress management.

8. Distinguish between authority and responsibilities.

### Section-C

**Note :** Attempt any **three** questions out of the following **five** questions. Each

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question carries 15 marks. Answer is required in detail. $15 \times 3 = 45$

9. Define ethics and social responsibilities of business. What are different tools of ethics?

10. What do you mean by strategy? How are compries changing their strategies to compete in new business environment?

11. "Planning without control is meaningless" and "Control with out planning is a waste". Discuss.

12. Explain system approach of modern management theory.

13. What are the different roles of a manager in an organisation?

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B.C.A.-I Sem.

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## 18002

## B.C.A. Examination, Dec.-2020

## Programming Principles & Algorithm

## (BCA-102)

*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 variable?

2.   What is interpreter?

**P.T.O.**

3.   Define Recursion.

4.   Write four preprocessor directives.

5.   Write Syntax and usage of Ternary Operator.

### Section-B

### (Short Answer Questions)

**Note :** Answer 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.   Write a program in C to find maximum of three numbers.

7.   Write a program in C to calculate are of circle.

8.   What is structure of 'C' program? Define it.

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## 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. Why time Complexity is an important issue? Explain.

10. What do you mean by Call-by-value and Call-by-reference? Explain both in brief. Also explain difference between them.

11. Write a C Program using while loop to calculate the factorial of a given number.

12. What is array? Explain in brief. How array is declared in C ? Also write limitations of an array.

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**P.T.O.**

13. Write note on :

(a) Function

(b) Header files

(c) Flow chart

(d) Extern storage class

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