

A
(21119)

Roll No.

Total Questions : 10]

[Printed Pages : 4

NP-3440

BBA/BCA/ETC. Examination, Nov., 2019

ENVIRONMENTAL STUDIES
(BBA/BCA/ETC.-008)

Time : 3 Hrs.]

[M.M. : 100

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

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।

ND-67

(1)

Turn Over

Section-A (खण्ड-अ)

Descriptive Answer Questions

(विस्तृत उत्तरीय प्रश्न)

20×3=60

Note :- This Section contains six questions, attempt any *three* questions. Each question carries 20 marks. Answer must be descriptive.

इस खण्ड में छः प्रश्न हैं, जिसमें से तीन प्रश्न करने हैं। प्रत्येक प्रश्न 20 अंक का है। उत्तर निबन्धात्मक होने चाहिए।

1. Describe the influencing major factors of Natural Environment.

प्राकृतिक पर्यावरण को प्रभावित करने वाले प्रमुख कारकों का वर्णन कीजिए।

2. Describe the different types of pollution in brief.

प्रदूषण के विभिन्न प्रकारों का संक्षेप में वर्णन कीजिए।

3. What are the main sources of non-conventional and alternate sources of energy ?

ऊर्जा के विभिन्न गैर-परम्परागत तथा वैकल्पिक स्रोत कौन-कौनसे हैं ? वर्णन कीजिए।

4. Describe the importance of forests to human life.

मानव जीवन में वनों के महत्त्व का वर्णन कीजिए।

ND-67

(2)

5. Discuss the impact of pollution on public health.
जनस्वास्थ्य पर प्रदूषण के प्रभाव की विवेचना कीजिए।
6. Write an essay on the changing relationship between Man and Environment.
मानव एवं पर्यावरण के मध्य बदलते सम्बन्धों पर एक निबन्ध लिखिए।

Section-B (खण्ड-ब)

Short Answer Type Questions

(लघु उत्तरीय प्रश्न) 10×2=20

Note :- This Sections contains three questions. Attempt any two questions. Each questions carries 10 marks.
इस खण्ड में तीन प्रश्न हैं, जिसमें से दो प्रश्न करने हैं। प्रत्येक प्रश्न 10 अंकों का है।

7. The rapid increase in population is responsible for environmental degradations. Discuss.
जनसंख्या वृद्धि पर्यावरणीय विघटन के लिए उत्तरदायी है। व्याख्या कीजिए।
8. Explain Bio-diversity and its conservation.
जैव-विविधता और उसके संरक्षण की व्याख्या कीजिए।
9. Write a short note on Wild-life conservations.
वन्य-जीव संरक्षण पर एक संक्षिप्त टिप्पणी लिखिए।

Section-C (खण्ड-स)

Very Short Answer Type Questions

(अति लघु उत्तरीय प्रश्न) 4×5=20

Note :- This question contains five Parts, all are compulsory, each Part carries 4 marks.

इस प्रश्न के पाँच भाग हैं, सभी भाग अनिवार्य हैं। प्रत्येक भाग 4 अंकों का है।

10. (i) Rain water harvesting.
वर्षा जल संचयन।
- (ii) Global warming.
वैश्विक ऊष्मीकरण।
- (iii) Environmental Education.
पर्यावरण शिक्षा।
- (iv) Noise Pollution.
ध्वनि प्रदूषण।
- (v) Drip Irrigation.
टपक सिंचाई।

18004

B.C.A. Examination, November-2019

BUSINESS COMMUNICATION

(BCA-106)

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. 5×3=15

1. How does noise disturb the communication process?
2. Differentiate between good and bad business letters.
3. What is E-commerce ? Explain C to B (Consumer to Business).
4. How self-development contribute to effective communication ?
5. Discuss qualities of a good report writing.

18004

[P.T.O.]

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. 2×7½=15

6. "Kinesics plays an important role in communication." Discuss this statement.
7. Prepare a specimen of chairman's speech of a company.
8. What is meant by oral communication ? What principles should be followed to make oral communication effective ?

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. 3×15=45

9. What do you understand by writing skills ? What are the various steps of writing skills ?
10. What do you mean by group discussion ? Discuss the prior conditions and advantages of group discussions.

18004

11. (a) "In an effective communication, conciseness and completeness are as important as courtesy and clarity." Discuss.
- (b) Write an application for the post of a section officer in an university.
12. Write short note on any *two* :
- (a) Audience Analysis
- (b) Grapewine and rumour
- (c) Channels of Internal Communication.
13. Discuss the characteristics of a good resume. Highlight the key points a candidate should remember to ensure success in an online interview.

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B.C.A.-I Sem.

18001**B.C.A. Examination, November-2019****COMPUTER FUNDAMENTAL 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.

5×3=15

1. Convert the following :

(a) $(101101)_2 = (?)_{10}$

(b) $(321)_{10} = (?)_{16}$

(c) $(B23)_{16} = (?)_{10}$

18001

[P.T.O.]

2. Write the full form of the abbreviation given below.

(a) PROM

(b) EPROM

(c) HDD

3. Write any three types of word processing software.**4.** Give the syntax of any three command in MS-EXCEL.**5.** Draw a well labelled block diagram of computer system. <https://www.ccsustudy.com>**Section-B****(Short Answer Questions)****Note :** Give short answer to any **two** questions out of the given three questions. Each question carries $7\frac{1}{2}$ marks. $2 \times 7\frac{1}{2} = 15$ **6.** Discuss data and information with an example.**7.** Discuss the features of MS-POWERPOINT.**8.** Define Desktop Publishing and also mention its features.**18001**

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

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

9. Define Operating Systems and also discuss the services provided by the operating system.
10. Define algorithm and flowchart and write an algorithm and flowchart to find the given no. is positive or not.
11. State difference between :
 - (i) LCD and Plasma
 - (ii) Scanner and Plotter
12. Discuss the conversion of number system from
 - (i) Binary to Decimal
 - (ii) Decimal to Octal.
13. Write some command in MS-EXCEL and also discuss its applications.

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BCA-I Sem.

18005

B.C.A. Examination, November 2019

MATHEMATICS-I
(BCA-101)

Time : Three Hours] [Maximum Marks : 75

Note : Attempt questions from all Sections as per instructions.

Section-A

Note : Attempt all the five question of this section. Each question carries 3 marks. Veryshort answer is required. 5x3=15

1. Define rank of a matrix.
2. Show that $\lim_{x \rightarrow 2} \frac{|x-2|}{x-2}$ does not exist.
3. Verify Rolle's theorem for the function.
 $f(x) = 2x^3 + x^2 - 4x - 2, x \in [-\sqrt{2}, \sqrt{2}]$

18005 [P.T.O.]

(2)

4. Evaluate :

$$\int x^2 e^x dx$$

5. Write the formula of $\vec{a} \cdot \vec{b}$ and $\vec{a} \times \vec{b}$.

Section-B

Note : Attempt any two questions out of the following three questions. Each question carries 7½ marks. Short answer is required.

2x7½=15

6. Solve the following system of equations by Cramers Rule

$$\begin{aligned} 3x + 4y &= 5 \\ x - y &= -3 \end{aligned}$$

7. Differentiate $(\sin x)^x$

8. Evaluate :

$$\int \frac{xe^x}{(1+x)^2} dx$$

Section-C

Note : Answer any three questions out of the following five questions. Each question carries 15 marks. Answer is required in detail. 3x15=45

18005

(3)

9. (i) Given :

$$\vec{a} = \hat{i} + 3\hat{j} - 2\hat{k}$$

$$\vec{b} = -\hat{i} + 3\hat{k}$$

Find $\vec{a} \cdot \vec{b}$ and $|\vec{a} \times \vec{b}|$

(ii) Find the unit vector perpendicular to both the vectors

$$4\hat{i} - \hat{j} + 3\hat{k} \text{ and } -2\hat{i} + \hat{j} - 2\hat{k}$$

10. Evaluate the following Integral of limit of sum

$$\int_a^b x \, dx.$$

11. Evaluate by L' Hospital rule

(i) $\lim_{x \rightarrow 1} \frac{x^5 - 2x^3 - 4x^2 + 9x - 4}{x^4 - 2x^3 + 2x - 1}$

(ii) $\lim_{x \rightarrow 0} \frac{x - \sin x}{x^3}$

12. (i) Evaluate $\lim_{x \rightarrow 0} \frac{x - |x|}{x}$

(ii) Given $f(x) = \frac{|x|}{x}$, for $x \neq 0$

and $f(0) = 0$

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

()

13. (i) Find the Rank of the matrix

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

(ii) Find the adjoint of the matrix

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

A

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B.C.A.-I Sem.

18003

B.C.A. Examination, November-2019

PRINCIPLES OF MANAGEMENT

(BCA-104)

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. $5 \times 3 = 15$

1. What do you mean by "Management is a process"?
2. Discuss the concept of "gang plank".
3. Write short note on Managerial grid.
4. Distinguish between Coordination and Cooperation.
5. What is the concept of "Linking Pin"?

18003

[P.T.O.]

(2)

Section-B

(Short Answer Questions)

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

6. Discuss, "Esprit de Corps".
7. Write short note on Scientific Management.
8. What do you mean by the Line organization, its features and its merits and demerits ?

Section-C

(Detailed Answer Questions)

Note : Attempt any *three* questions out of the following five questions. $3 \times 15 = 45$

9. What do you mean by managerial role ? Discuss the different roles that managers play in an organization.
10. Explain System Approach of Modern Management Theory.

(3)

12. What do you mean by centralization and decentralization ?
13. Write short note on :
- (a) Strategic Planning
 - (b) Policies
 - (c) Bounded Rationality

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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. 2×7.5=15

- 6. Explain the structure of 'C' programming with the help of suitable example.
- 7. Explain console based Input Output functions in 'C' language.
- 8. Distinguish between call by value and call by reference with the help of suitable example.

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. 3×15=45

- 9. What is preprocessor directives ? Discuss various types of preprocessors in C.
- 10. Differentiate among the three-goto, continue, break and exit statements by giving suitable examples.

18002

**B.C.A. Examination, November-2019
PROGRAMMING PRINCIPLES AND
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 : Answer all the *five* questions. Each question carries 3 marks. Very short answer is required not exceeding 75 words. 5×3=15

- 1. Write the difference between variables and constants.
- 2. What do you understand by header files ?
- 3. What is use of FOR statement used in 'C' Language ?
- 4. What do you mean by complexity of an algorithm ?
- 5. Define storage classes.

18002

[P.T.O.]

11. Explain Brain storming and divide of conquer problem solving technique in detail..
12. (i) Write a 'C' program to find the factorial of a given number.
(ii) Write a program in C language to print the reverse of n digit number.
13. Explain the following :
 - (i) Keywords and Identifiers
 - (ii) Big-Oh notation
 - (iii) Swapping

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Total Questions : 10]

[Printed Pages : 4

NP-3440

BBA/BCA/BPT/ETC. Examination, May-2019

ENVIRONMENTAL STUDIES

(BBA/BCA/BPT/ETC.-008)

Time : 3 Hrs.]

[M.M. : 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.

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।

Section-A (खण्ड-अ)

Long Answer Type Questions

(विस्तृत उत्तरीय प्रश्न)

NA-260

(1)

Turn Over

Note :- This Section contains six questions. Attempt any three questions. Each question carries 20 marks.

इस खण्ड में छः प्रश्न हैं। किन्हीं तीन प्रश्नों के उत्तर दीजिए। प्रत्येक प्रश्न 20 अंक का है।

1. What do you mean by Pollution ? Describe air pollution in detail.

प्रदूषण से आप क्या समझते हैं ? वायु प्रदूषण का विस्तृत वर्णन कीजिए।

2. Describe in detail the main factors of Environment. पर्यावरण के मुख्य घटकों का विस्तृत वर्णन कीजिए।

3. Write the bio-geographical classification of India in detail.

भारत के जैव-भौगोलिक वर्गीकरण को विस्तार से लिखिए।

4. Write an essay on the Importance of Forest.

वन के महत्त्व पर निबन्ध लिखिए।

5. Describe energy flow in any Ecosystem read by you.

अपने द्वारा पढ़े किसी ईको तंत्र में ऊर्जा प्रवाह का उल्लेख कीजिए।

6. Write any two notes on the following :

निम्नलिखित में से किन्हीं दो पर टिप्पणियाँ लिखिए :

(a) Noise Pollution

ध्वनि प्रदूषण

NA-260

(2)

- (b) Soil Erosion
मृदा अपरदन
- (c) Global Warming
पृथ्वी उष्मायन

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.

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

7. Describe the various types of Ecological Pyramid.
विभिन्न प्रकार के पारिस्थितिक पिरामिड का वर्णन कीजिए।
8. Describe Hot-Spot of Biodiversity.
जैव विविधता के हॉट-स्पॉट लिखिए।
9. Write notes on the following :
निम्नलिखित पर टिप्पणियाँ लिखिए :
- (a) Acid Rain
अम्ल वर्षा
- (b) Green House Effect
ग्रीन हाउस प्रभाव

NA-260

(3)

Turn Over

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.

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

10. (i) Hydrosere
जल क्रमक
- (ii) Thermal Pollution
तापीय प्रदूषण
- (iii) Wild Life Protection Act
वन्य जीवन संरक्षण अधिनियम
- (iv) AIDS
एड्स
- (v) Name any *four* National Parks of India.
भारत के किन्हीं चार राष्ट्रीय उद्यानों के नाम लिखिए।

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NA-260

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