

NO. OF QUESTIONS: 16
NO. OF PAGES : 01

BG 1st SEMESTER (NEP)
December, 2022

Information Technology (Major)

Time Allowed : 2.00 Hours

Max. Marks : 100

Min. Marks : 40

NOTE : ATTEMPT ALL QUESTIONS FROM SECTION "A" & "B" AND ONLY TWO QUESTIONS FROM SECTION "C"

SECTION – A: [Short Answer Type Questions, to be answered in about 20 words] (8 x 2=16 Marks)

1. Write down the Components of a computer system?
2. Define Bit.
3. What is the basic difference between assembler and interpreter?
4. Elucidate Flowchart.
5. Describe Big Data.
6. What do you mean by Operating System?
7. Write down the four uses of Internet?
8. What is Cloud Computing?

Section – B : [Medium Answer Type Questions, to be answered in about 150 words] (4 x 10=40 Marks)

9. Describe the characteristics of the Computer.

"OR"

- i) Convert the octal number 274 into the Hexadecimal number.
- ii) Convert the Binary number 101010 into its decimal equivalent.

10. Describe Computer Languages and explain the different types of computer languages?

"OR"

Write pseudo code that reads two numbers and multiplies them together and print out their product.

11. What is database and DBMS & Explain the Advantages and Disadvantages of DBMS?

"OR"

Explain in detail the Functions of Operating System.

12. Explain the use of the Internet in our daily lives.

"OR"

Explain any three applications of e-commerce.

Section – C : [Long Answer Type Questions, to be answered in about 400 words] (2 x 22=44 Marks)

13. Discuss Generations of Computers in detail.
14. Describe Computer languages and its types.
15. What is an operating system and explain its types.
16. Write short notes on the following:

a. WWW b. Web browsers c. Email d. Search Engine

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BG 1st SEMESTER (NEP)**Digital and Technological Solutions (VAC)**

Max. Marks: 50

Min. Marks: 20

Time Allowed : 2:00 Hours

NOTE: ATTEMPT ALL QUESTIONS FROM SECTION "A" & "B" AND ONLY TWO QUESTIONS FROM SECTION "C"**Section - A: [Short Answer Type Questions]**

(1*8 = 8 Marks)

[Answer all Questions in maximum of 20 words each]

1. Define Software?
2. What is USSD?
3. What is the principal of a Credit Card?
4. Name any three top E-commerce giants of India?
5. What is Email?
6. What do you mean by Search Engine Optimization (SEO)?
7. What is Email Marketing?
8. What is QR code used for?

Section - B: [Medium Answer Type Questions]

(5*4 = 20 Marks)

[Answer all the Four Questions with internal choice in a maximum of 150 words each]

9. What is WWW in Computer Networks? Discuss some benefits of the World Wide Web.

"OR"

- What do we mean by E-commerce? How does it help in developing the Economy?

10. What is a flowchart? What are the five (5) basic symbols of flowchart?

"OR"

What is an Algorithm? Explain with the help of an example?

11. Why is OSI reference model? What are the layers of OSI reference model?

"OR"

Write do you mean by Internet? Write a note on Evolution of Digital Systems.

12. What is Digital Marketing? Write short notes on any three types of digital marketing.

"OR"

What are search engines? List any three most used Search Engines.

Section - C: [Long Answer Type Questions]

(11*2 = 22 Marks)

[Answer only Two Questions in a maximum of 400 words each]

13. What is transmission media? Explain its types with examples.
14. What is an Operating System and what are its functions?
15. What do you mean by E-Governance? Briefly discuss different initiatives under Digital India campaign.
16. Explain the Concepts of Unified Payment Interface (UPI).

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BG 1st SEMESTER (NEP); Dec-2022

BG 1st SEMESTER (NEP)

Applied Computing

[Internet Basics & Multimedia Computing] (Minor)

Time Allowed : 2:00 Hours

Max. Marks: 100

Min. Marks: 40

NOTE: ATTEMPT ALL QUESTIONS FROM SECTION "A" & "B" AND ONLY TWO QUESTIONS FROM SECTION "C"

Section - A: [Short Answer Type Questions]

[Answer all Questions in maximum of 20 words each]

(2 * 8 = 16 Marks)

1. What is HTML?
2. Name any two authoring metaphors.
3. What is dithering?
4. What is the No. of bits used in a grey scale image?
5. What is lossless compression?
6. Name two lossy image compression techniques.
7. What is a motion vector?
8. What is YCbCr? *YCbCr*

Section - B: [Medium Answer Type Questions]

[Answer all the Four Questions with internal choice in a maximum of 150 words each]

(4 * 10 = 40 Marks)

9. Discuss the relation between multimedia and hypermedia.

"OR"

Briefly explain different elements of multimedia.

10. Explain GIF file format for image files.

"OR"

Differentiate between 8-bit grey-level and 8-bit colour images. *Bitmap*

11. What is Variable Length coding? Explain with an example. *vector*

"OR"

Explain the basic information theory.

12. Differentiate between MPEG-I & MPEG-II compression standards.

"OR"

Write the advantages of JPEG-LS standard over JPEG.

Section - C: [Long Answer Type Questions]

[Answer only Two Questions in a maximum of 400 words each]

(2 * 22 = 44 Marks)

13. Explain in detail any two authoring metaphors. Give examples in each.
14. Explain why we need to be able to have less than 24-bit color and why this makes for a problem. Generally, what do we need to do to adaptively transform 24-bit color values to 8-bit ones?
15. What is Distortion Measure? Explain Rate-Distortion Theory used in lossy compression.
16. How does JPEG compression technique work? Explain different steps involved.

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BG 1st SEMESTER
December 2022

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COMMUNICATION SKILL IAE CI

Max. Marks : 75
Min. Marks : 30

Time Allowed : 2.00 Hours

NOTE : Attempt all questions from Section A & B and only two questions from Section C:
SECTION : A [Short Answer Type Questions to be answered in about 20 words] [1½ x 8 = 12 Marks]

1. What is Channel in communication?
2. What is encoding in communication?
3. What is paralanguage in Non-verbal communication?
4. What are soft skills?
5. Why is Body Language important in public speaking?
6. What are interpersonal skills?
7. What sort of the tone should be used in a group discussion.
8. Give the full form of CV.

SECTION : B [Medium Answer Type Questions to be answered in about 150 words] [7½ x 4 = 30 Marks]

9. What is the difference between verbal and Non-verbal communication?

OR

How do cultural factors affect communication?

10. Differentiate between Hard Skills and Soft Skills.

OR

Why are soft skills important to our growth as human beings?

11. Write a letter to the principal of your college with a request for the purchase of more books for the college library.

OR

What is an email? What are the pre-requisites for sending an email?

12. As a member of NSS group, prepare a brief report on the recently celebrated Annual Day in your College.

OR

Write a short speech to be delivered on the Teachers Day in your College.

SECTION : C [Long Answer Type Questions to be answered in about 400 words] [16½ x 2 = 33 Marks]

13. Discuss communications as a cyclic process.
14. Discuss various barriers to communication.
15. What are the different techniques of facing an interview?
16. Imagine that you are applying for teaching job in a reputed institute of your area. Prepare a CV for yourself. Include your academic achievements and work experience.

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BG 1st SEMESTER (NEP)

ECONOMICS (MDC)

Time Allowed : 2:00 Hours

Max. Marks: 75
Min. Marks: 30

NOTE: ATTEMPT ALL QUESTIONS FROM SECTION "A" & "B" AND ONLY TWO QUESTIONS FROM SECTION "C"

Section - A: [Short Answer Type Questions]

[Answer all Questions in maximum of 20 words each]

(1 ½ * 8 = 12 Marks)

1. Define Microeconomics.
2. Define Macroeconomics.
3. What is Laissez Faire Policy?
4. Define Opportunity Cost.
5. Define an Index Number.
6. Define Inflation.
7. Define Marginal Utility.
8. Define a Budget line.

Section - B: [Medium Answer Type Questions]

[Answer all the Four Questions with internal choice in a maximum of 150 words each]

(4*7 ½ = 30) Marks)

9. Define Utility. Differentiate between Cardinal and Ordinal Utility.

"OR"

Explain law of Demand. What are its exceptions?

10. Explain law of Supply. What are the various determinants of Supply?

"OR"

Define an Indifference curve. Discuss in detail the properties of Indifference curve.

11. Differentiate between Demand Pull Inflation and Cost Push Inflation.

"OR"

Discuss quantitative methods of credit control.

12. Discuss the merits of Mixed economy.

"OR"

Define money. Explain various functions of money.

Section - C: [Long Answer Type Questions]

[Answer only Two Questions in a maximum of 400 words each]

(2*16 ½ = 33 Marks)

13. Define Economics. Explain in detail the central problems of an economy.
14. Define national income. Discuss various methods of estimating national income.
15. What are the main features of capitalism? Discuss its merits and demerits.
16. Define Fiscal Policy. Discuss how fiscal policy can be used to control inflation?

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