

**GOA VIDYAPRASARAK MANDAL'S  
GOPAL GOVIND POY RAITURCAR COLLEGE OF COMMERCE AND  
ECONOMICS, PONDA-GOA**

**B.C.A. (SEMESTER - VI) EXAMINATION – AUGUST 2020  
MULTIMEDIA TECHNOLOGY**

**Duration : 2 hours**

**Marks : 30**

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**Instructions :** 1. All questions are compulsory however internal choice is available.  
2. Figures to the right indicate full marks.

1. Answer any FIVE of the following. (5x2= 10)
- a) Explain hypermedia with an example.
  - b) Write a short note on graphic format JPEG.
  - c) Why vector graphics files are resolution independent ?
  - d) State “Nyquist sampling theorem”.
  - e) Explain any two benefits of using digital audio.
  - f) Explain any two video effects.
  - g) Explain two points of difference between print media and electronic media.
  - h) What is web-based multimedia ?
2. Answer any FOUR of the following. (4x5= 20)
- a) Explain the CMYK colour model with the diagram. Also, elaborate on the subtractive colour.
  - b) Explain the applications of multimedia in the field of business and education by using appropriate examples.
  - c) Explain – “A popular way to create a composite image is to use transparent layers”.
  - d) Explain the audio effects compression and limiting. Also, explain that the noise gating is an extreme form of expansion.
  - e) Explain quantization and bit rate with an appropriate example.
  - f) Explain the advantages of AVI video format.

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