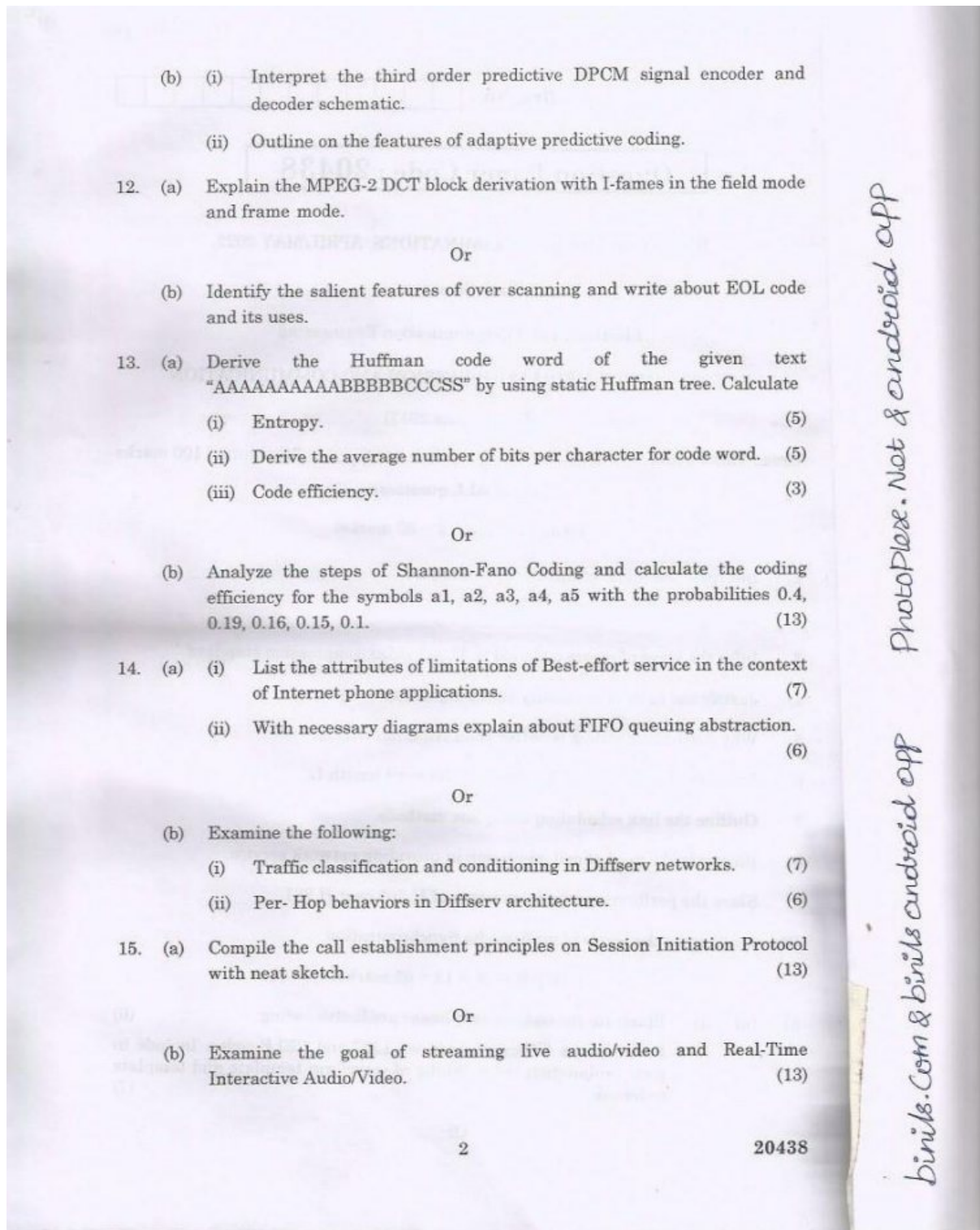


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(b) (i) Interpret the third order predictive DPCM signal encoder and decoder schematic.

(ii) Outline on the features of adaptive predictive coding.

12. (a) Explain the MPEG-2 DCT block derivation with I-fames in the field mode and frame mode.

Or

(b) Identify the salient features of over scanning and write about EOL code and its uses.

13. (a) Derive the Huffman code word of the given text "AAAAAAAAAABBBBBBCCCCSS" by using static Huffman tree. Calculate

(i) Entropy. (5)

(ii) Derive the average number of bits per character for code word. (5)

(iii) Code efficiency. (3)

Or

(b) Analyze the steps of Shannon-Fano Coding and calculate the coding efficiency for the symbols a1, a2, a3, a4, a5 with the probabilities 0.4, 0.19, 0.16, 0.15, 0.1. (13)

14. (a) (i) List the attributes of limitations of Best-effort service in the context of Internet phone applications. (7)

(ii) With necessary diagrams explain about FIFO queuing abstraction. (6)

Or

(b) Examine the following:

(i) Traffic classification and conditioning in Diffserv networks. (7)

(ii) Per- Hop behaviors in Diffserv architecture. (6)

15. (a) Compile the call establishment principles on Session Initiation Protocol with neat sketch. (13)

Or

(b) Examine the goal of streaming live audio/video and Real-Time Interactive Audio/Video. (13)

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Notes

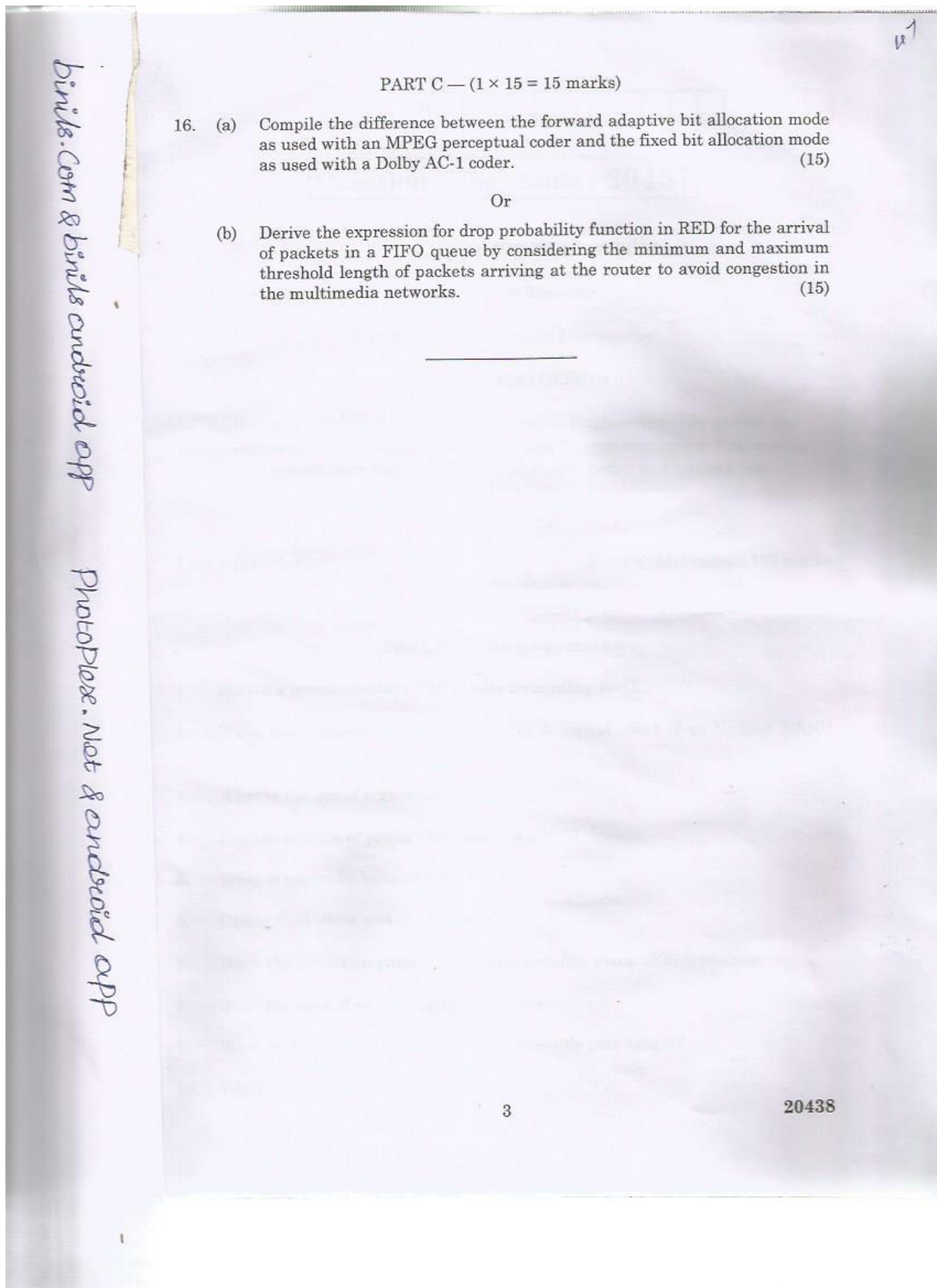
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