

Branislav M. Notaroš: Electromagnetics (Pearson Prentice Hall)

Q3 ANSWERS to Conceptual Questions

STEADY ELECTRIC CURRENTS

QUESTION 3.1 Answer: (C)**QUESTION 3.2** Answer: (C)**QUESTION 3.3** Answer: (D)**QUESTION 3.4** Answer: (C)**QUESTION 3.5** Answer: (E)**QUESTION 3.6** Answer: (C)**QUESTION 3.7** Answer: (B)**QUESTION 3.8** Answer: (B)**QUESTION 3.9** Answer: (B)**QUESTION 3.10** Answer: (A)**QUESTION 3.11** Answer: (B)**QUESTION 3.12** Answer: (B)**QUESTION 3.13** Answer: (A)**QUESTION 3.14** Answer: (E)**QUESTION 3.15** Answer: (A)**QUESTION 3.16** Answer: (B)**QUESTION 3.17** Answer: (A)**QUESTION 3.18** Answer: (A)**QUESTION 3.19** Answer: (A)**QUESTION 3.20** Answer: (C)**QUESTION 3.21** Answer: (C)**QUESTION 3.22** Answer: (D)**QUESTION 3.23** Answer: (C)**QUESTION 3.24** Answer: (F)**QUESTION 3.25** Answer: (A)**QUESTION 3.26** Answer: (B)**QUESTION 3.27** Answer: (A)**QUESTION 3.28** Answer: (C)**QUESTION 3.29** Answer: (A)**QUESTION 3.30** Answer: (B)

Q4 ANSWERS to Conceptual Questions

MAGNETOSTATIC FIELD IN FREE SPACE

QUESTION 4.1	Answer: (B)	QUESTION 4.28	Answer: (E)
QUESTION 4.2	Answer: (C)	QUESTION 4.29	Answer: (B)
QUESTION 4.3	Answer: (A)	QUESTION 4.30	Answer: (E)
QUESTION 4.4	Answer: (A)		
QUESTION 4.5	Answer: (C)		
QUESTION 4.6	Answer: (C)		
QUESTION 4.7	Answer: (E)		
QUESTION 4.8	Answer: (B)		
QUESTION 4.9	Answer: (B)		
QUESTION 4.10	Answer: (B)		
QUESTION 4.11	Answer: (A)		
QUESTION 4.12	Answer: (C)		
QUESTION 4.13	Answer: (A)		
QUESTION 4.14	Answer: (B)		
QUESTION 4.15	Answer: (B)		
QUESTION 4.16	Answer: (A)		
QUESTION 4.17	Answer: (B)		
QUESTION 4.18	Answer: (E)		
QUESTION 4.19	Answer: (C)		
QUESTION 4.20	Answer: (C)		
QUESTION 4.21	Answer: (A)		
QUESTION 4.22	Answer: (B)		
QUESTION 4.23	Answer: (B)		
QUESTION 4.24	Answer: (A)		
QUESTION 4.25	Answer: (C)		
QUESTION 4.26	Answer: (A)		
QUESTION 4.27	Answer: (D)		

Q5 **ANSWERS to Conceptual Questions**
MAGNETOSTATIC FIELD IN MATERIAL MEDIA

QUESTION 5.1	Answer: (B)
QUESTION 5.2	Answer: (D)
QUESTION 5.3	Answer: (C)
QUESTION 5.4	Answer: (E)
QUESTION 5.5	Answer: (A)
QUESTION 5.6	Answer: (E)
QUESTION 5.7	Answer: (D)
QUESTION 5.8	Answer: (B)
QUESTION 5.9	Answer: (B)
QUESTION 5.10	Answer: (D)
QUESTION 5.11	Answer: (A)
QUESTION 5.12	Answer: (D)
QUESTION 5.13	Answer: (C)
QUESTION 5.14	Answer: (F)
QUESTION 5.15	Answer: (C)
QUESTION 5.16	Answer: (D)
QUESTION 5.17	Answer: (E)
QUESTION 5.18	Answer: (E)
QUESTION 5.19	Answer: (C)
QUESTION 5.20	Answer: (B)
QUESTION 5.21	Answer: (A)

Q6 ANSWERS to Conceptual Questions
SLOWLY TIME-VARYING ELECTROMAGNETIC
FIELD

QUESTION 6.1	Answer: (E)	QUESTION 6.28	Answer: (B)
QUESTION 6.2	Answer: (A)	QUESTION 6.29	Answer: (B)
QUESTION 6.3	Answer: (D)	QUESTION 6.30	Answer: (C)
QUESTION 6.4	Answer: (B)		
QUESTION 6.5	Answer: (C)		
QUESTION 6.6	Answer: (C)		
QUESTION 6.7	Answer: (E)		
QUESTION 6.8	Answer: (A)		
QUESTION 6.9	Answer: (B)		
QUESTION 6.10	Answer: (B)		
QUESTION 6.11	Answer: (D)		
QUESTION 6.12	Answer: (D)		
QUESTION 6.13	Answer: (A)		
QUESTION 6.14	Answer: (D)		
QUESTION 6.15	Answer: (C)		
QUESTION 6.16	Answer: (B)		
QUESTION 6.17	Answer: (E)		
QUESTION 6.18	Answer: (D)		
QUESTION 6.19	Answer: (F)		
QUESTION 6.20	Answer: (C)		
QUESTION 6.21	Answer: (A)		
QUESTION 6.22	Answer: (E)		
QUESTION 6.23	Answer: (B)		
QUESTION 6.24	Answer: (D)		
QUESTION 6.25	Answer: (B)		
QUESTION 6.26	Answer: (B)		
QUESTION 6.27	Answer: (A)		

Q1 ANSWERS to Conceptual Questions

ELECTROSTATIC FIELD IN FREE SPACE

QUESTION 1.1	Answer: (B)	QUESTION 1.26	Answer: (C)
QUESTION 1.2	Answer: (C)	QUESTION 1.27	Answer: (C)
QUESTION 1.3	Answer: (F)	QUESTION 1.28	Answer: (A)
QUESTION 1.4	Answer: (B)	QUESTION 1.29	Answer: (B)
QUESTION 1.5	Answer: (B)	QUESTION 1.30	Answer: (A)
QUESTION 1.6	Answer: (E)		
QUESTION 1.7	Answer: (E)		
QUESTION 1.8	Answer: (E)		
QUESTION 1.9	Answer: (D)		
QUESTION 1.10	Answer: (C)		
QUESTION 1.11	Answer: (D)		
QUESTION 1.12	Answer: (C)		
QUESTION 1.13	Answer: (E)		
QUESTION 1.14	Answer: (D)		
QUESTION 1.15	Answer: (C)		
QUESTION 1.16	Answer: (B)		
QUESTION 1.17	Answer: (A)		
QUESTION 1.18	Answer: (B)		
QUESTION 1.19	Answer: (B)		
QUESTION 1.20	Answer: (C)		
QUESTION 1.21	Answer: (A)		
QUESTION 1.22	Answer: (E)		
QUESTION 1.23	Answer: (B)		
QUESTION 1.24	Answer: (B)		
QUESTION 1.25	Answer: (A)		

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Q2 ANSWERS to Conceptual Questions

DIELECTRICS, CAPACITANCE, AND ELECTRIC ENERGY

QUESTION 2.1	Answer: (C)	QUESTION 2.25	Answer: (A)
QUESTION 2.2	Answer: (B)	QUESTION 2.26	Answer: (D)
QUESTION 2.3	Answer: (B)	QUESTION 2.27	Answer: (A)
QUESTION 2.4	Answer: (B)	QUESTION 2.28	Answer: (B)
QUESTION 2.5	Answer: (B)	QUESTION 2.29	Answer: (B)
QUESTION 2.6	Answer: (A)	QUESTION 2.30	Answer: (D)
QUESTION 2.7	Answer: (A)	QUESTION 2.31	Answer: (B)
QUESTION 2.8	Answer: (C)	QUESTION 2.32	Answer: (B)
QUESTION 2.9	Answer: (D)	QUESTION 2.33	Answer: (D)
QUESTION 2.10	Answer: (C)	QUESTION 2.34	Answer: (B)
QUESTION 2.11	Answer: (A)		
QUESTION 2.12	Answer: (B)		
QUESTION 2.13	Answer: (B)		
QUESTION 2.14	Answer: (B)		
QUESTION 2.15	Answer: (A)		
QUESTION 2.16	Answer: (C)		
QUESTION 2.17	Answer: (B)		
QUESTION 2.18	Answer: (E)		
QUESTION 2.19	Answer: (C)		
QUESTION 2.20	Answer: (E)		
QUESTION 2.21	Answer: (B)		
QUESTION 2.22	Answer: (D)		
QUESTION 2.23	Answer: (B)		
QUESTION 2.24	Answer: (C)		