

*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**

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

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

**Q1 ANSWERS to Conceptual Questions  
ELECTROSTATIC FIELD IN FREE SPACE**

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