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1-The ascending order of evolution of materials used for making the cutting tools is

- (A) bronze – stone – steel – iron
- (B) iron – steel – bronze – stone
- (C) stone – bronze – iron – steel
- (D) bronze – stone – steel – iron

(Ans: C)

2-The materials are added to cutting tools to increase their properties. Match the following

- | | |
|-------------|--------------------|
| 1. Tungsten | a. Hardness |
| 2. Carbon | b. Hot hardness |
| 3. Vanadium | c. Wear resistance |

The correct order is

- (A) 1-b, 2-a, 3-c
- (B) 1-c, 2-a, 3-b
- (C) 1-b, 2-c, 3-a
- (D) 1-a, 2-b, 3-c

(Ans: A)

3-Which of the following is second hardest substance known?

- (A) Ceramics
- (B) Cermets
- (C) Cubic Boron Nitride (CBN)
- (D) Diamond

(Ans: C)

4-Which of the following tools are generally manufactured by Powder metallurgy?

- (A) Low carbon steel

- (B) Abrasives
- (C) High carbon steel
- (D) Cemented carbides

(Ans: D)

5-Which of the following is hardest known material?

- (A) Cemented carbide
- (B) Ceramics
- (C) Cubic boron nitride (CBN)
- (D) Diamond

(Ans: D)

6-Corundum is a/an

- (A) Diamond
- (B) Abrasive
- (C) Ceramic
- (D) None of the above

(Ans: B)

7-The cutting tool wears due to

- (A) Edge wear
- (B) Crater wear
- (C) Flank wear
- (D) All of the above

(Ans: D)

8-The built up edge in cutting tools can be eliminated by

- (A) Fast cutting speed

- (B) Higher rake angles
- (C) High pressure cutting fluid
- (D) All of the above

(Ans: D)

9-The cutting speed of High speed steels is ___ times faster than Carbon steel

- (A) 2
- (B) 4
- (C) 6
- (D) 8

(Ans: B)

10-Which of the following cutting tool has highest hot hardness?

- (A) Ceramics
- (B) Cast alloys
- (C) High speed steels
- (D) Carbon tool steel

(Ans: A)