

PSG COLLEGE OF ARTS & SCIENCE  
(AUTONOMOUS)

MSc DEGREE EXAMINATION MAY 2023  
(First Semester)

Branch - COMPUTER SCIENCE

**META-VERSE NEAR FUTURE TECHNOLOGIES**

Time: Three Hours

Maximum: 50 Marks

**SECTION-A (5 Marks)**

Answer ALL questions

ALL questions carry EQUAL marks

(5 x 1 = 5)

- 1 Who first coined the term metaverse?  
(i) Newton Joy (ii) Nail Sophiath  
(iii) Nicolas Sphere (iv) Neal Stephenson
- 2 What is node in Block chain?  
(i) A computer on a blockchain network (ii) A transaction  
(iii) A exchange (iv) Cryptocurrency
- 3 An example of non-immersive VR device is  
(i) An i-pad (ii) An imax  
(iii) A screen projection (iv) A virtual reality headset
- 4 What is NFT?  
(i) Non-Forensic Transaction (ii) Non-Flexible Tokens  
(iii) Non-Futuristic Tokens (iv) Non-Fungible Tokens
- 5 What is an NFT platform?  
(i) An initiative led by large exchanges to give exposure to new and emerging NFTs  
(ii) An ecosystem that allows NFTs to be either created, traded, or both  
(iii) The blockchain infrastructure that NFT marketplaces are built upon  
(iv) None of the above

**SECTION - B (15 Marks)**

Answer ALL Questions

ALL Questions Carry EQUAL Marks

(5 x 3 = 15)

- 6 a Write a short note on history of metaverse.  
OR  
b Give the difference between AR and VR.
- 7 a Why we need smart contracts in Blockchain.  
OR  
b Explain the significance of decentralization in metaverse.
- 8 a Does Augmented Reality help in Marketing? Explain.  
OR  
b Elaborate on the types of head mounted displays available.
- 9 a Explain about benefits of NFTs.  
OR  
b Discuss whether we should an NFTs.
- 10 a Write a short note on Digital Identity in Metaverse.  
OR  
b Explain about virtual learning in Metaverse.

Cont...

**SECTION -C (30 Marks)**

Answer ALL questions

ALL questions carry EQUAL Marks

(5 x 6 = 30)

- 11 a Describe metaverse value chain with 7 layers.  
OR  
b Explain in detail the benefits of AR, VR and Metaverse. Write a note on mixed reality.
- 12 a Explain the significance of blockchain in metaverse.  
OR  
b Elucidate how NFTs are used in MV.
- 13 a Analysis in detail the smart contract capabilities in block chain.  
OR  
b Describe about blockchain identity management in metaverse.
- 14 a Explain in brief about twitter and NFT.  
OR  
b How to buy and sell an NFT in opensea.
- 15 a Explain in detail about how virtual learning can take place in metaverse.  
OR  
b Write a short note on personalized avatars and travel in metaverse.

Z-Z-Z

END